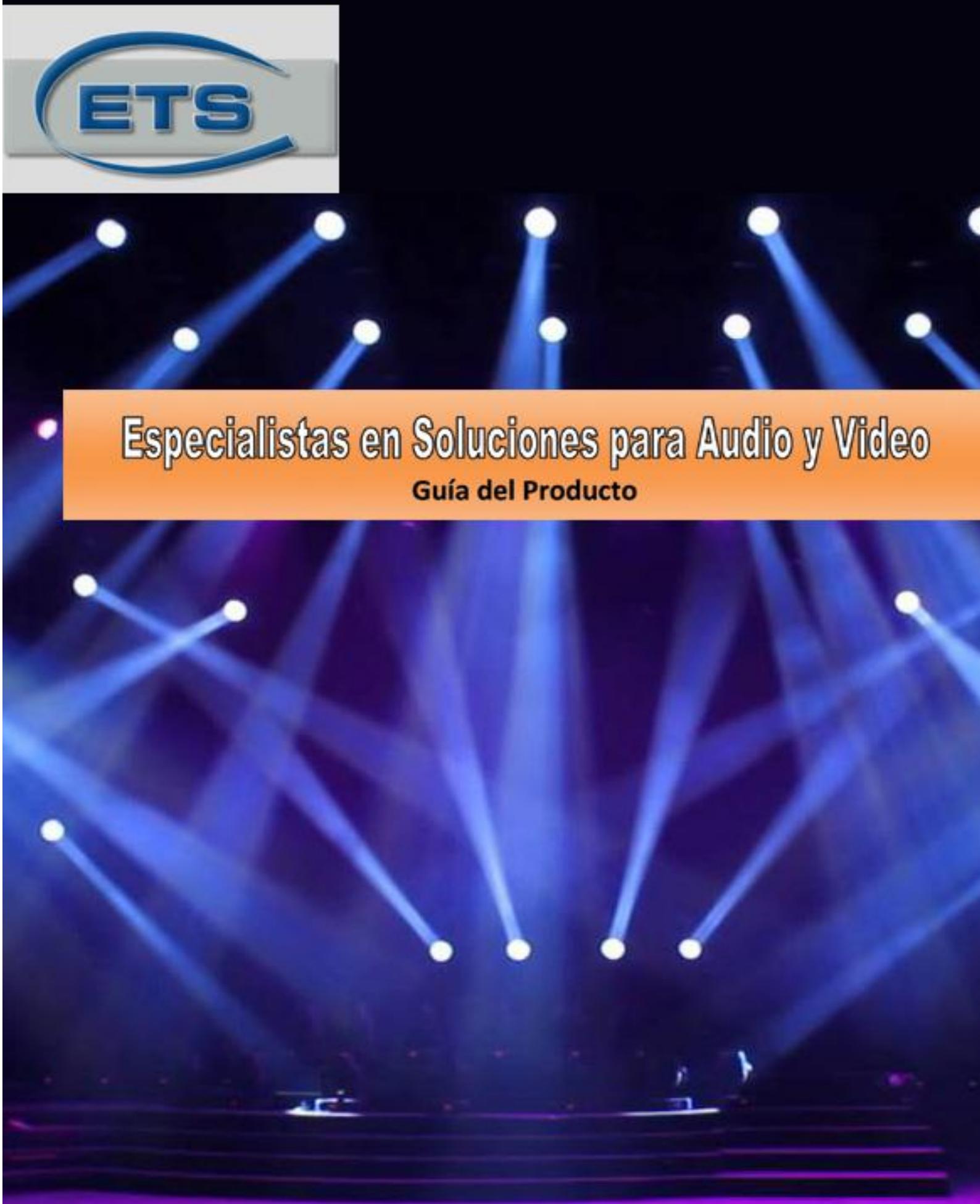




Especialistas en Soluciones para Audio y Video

Guía del Producto



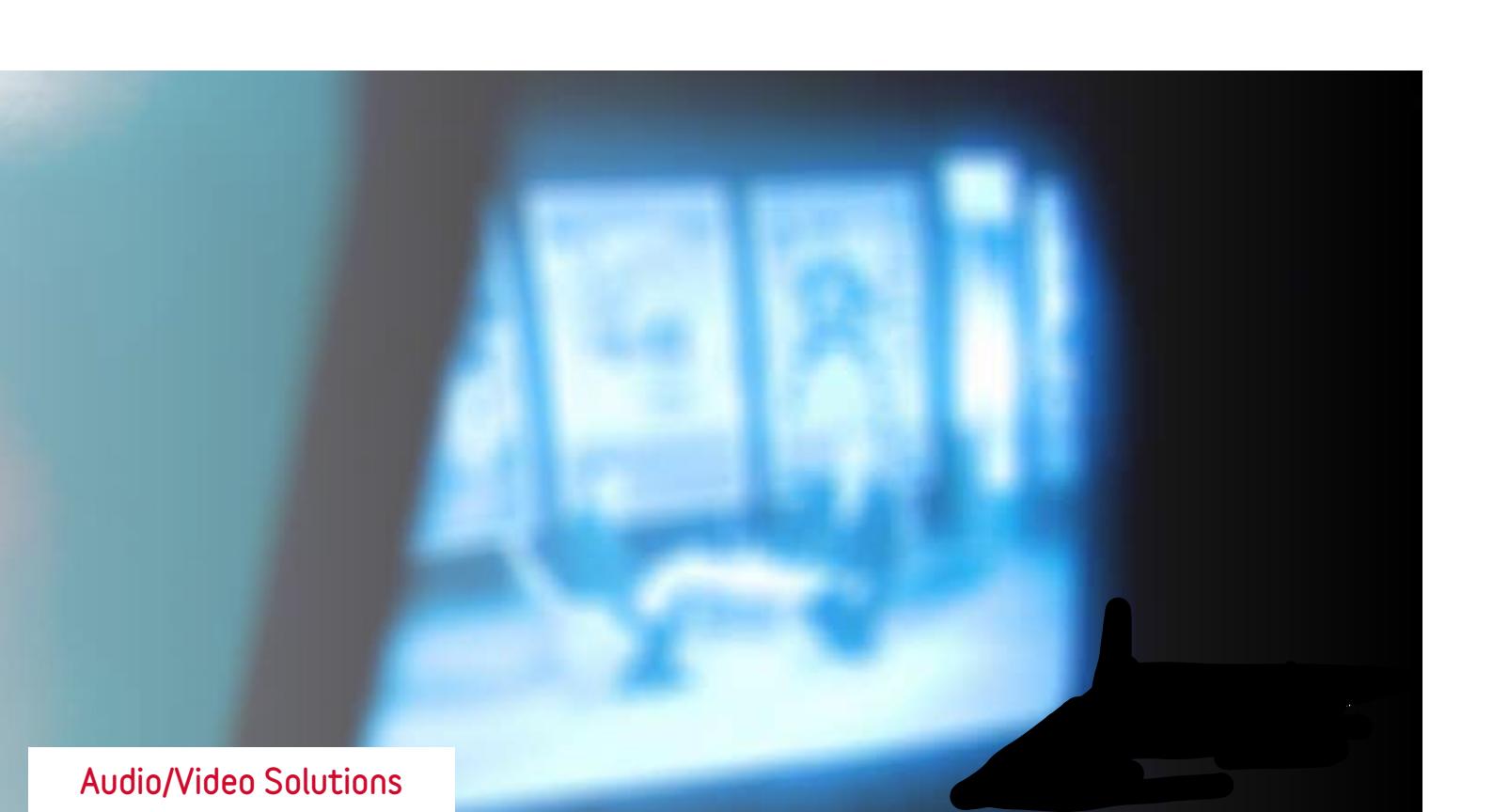
AUDIO TECNOLOGÍAS™

El equipo de Audiotecnologías está a su disposición para aconsejarle, guiarte y apoyarte en lo que sea.
Broadcast, audiovisuales, video analógico o digital.
Proyectos que está emprendiendo.



Acerca de Energy Transformation Systems

ETS ofrece productos de la más alta calidad para el transporte de señales de audio y video una variedad de medios, incluyendo digitales y audio analógico de nivel de línea, banda base o video de banda ancha y de HD-SDI digital video a analógico RGB; y VGA. Estas soluciones ETS se han instalado en Broadcast, Instalaciones, teatros de Broadway, Instituciones, Centros Sanitarios, Hogares "inteligentes" Centros de Culto, Salas de Reuniones, Estaciones de Ferrocarriles, y aeropuertos para nombrar sólo algunos.



Audio/Video Solutions

AV790 Series	5
AV820 Series	6
AV820 Series	7
AV900 Series	8
AV900W Series	9
AV902 Series	10
AV902WP Series	11
AV920 Series	12
AV961G Series	13
AV970 Series	14
AV974G Series	15

Specialty Audio Solutions

PA700 Series	16
PA800 Series	17
PA800WP Series	18
PA800XFMR	19
PA809 Audio Isolator	20
PA810 Series	21
PA820, PA778x Series	22

PA830 Series	23
PA840 Series	24
PA850 Series	25
PA870 Series	26
PA881, PA884 & PA885	27
PA882, PA883, PA886 Series	28
PA900 Series	29
PA910 Series	30
InstaSnake PA200™ Series	31
InstaSnake PA210 Series	32
SDS Audio Matrix Hub	33
SDS Audio System	34
SDS900 Series	35

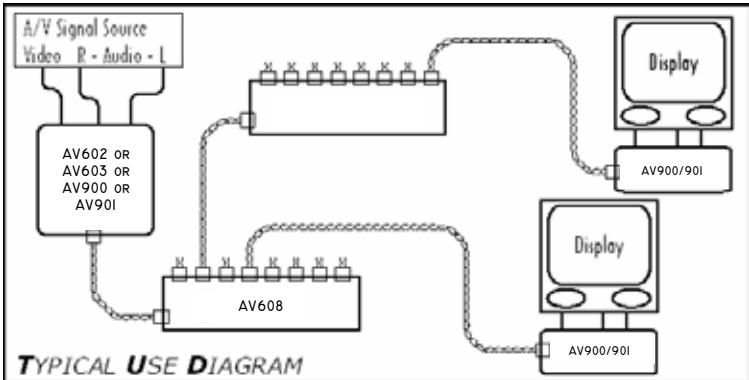
Specialty Video Solutions

PV620 Series	36
PV800 Series	37
PV820 Series	38
PV822 Series	39
PA840 Series	40

PV840WP Series	41
PV840XFMR	42
PV850 Series	43
PV860 Series	44
PV880 Series	45
PV884, PV885, PV888, PV889	46
PV887 CATV Isolator	47
PV890 Series	48
PV907 Series	49
PV907WP Series	50
PV920 Series	51
PV920DW Series	52
PV920WP Series	53
PV922 Series	54
PV930 Series	55
PV934 Series	56
PV950 Series	57
PV973G Series	58
PV974G Series	59
PV990 Series	60

AV600 Series

Baseband Video & Audio Distribution



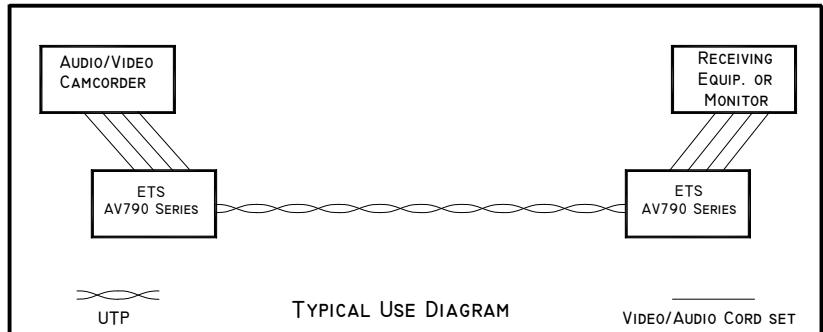
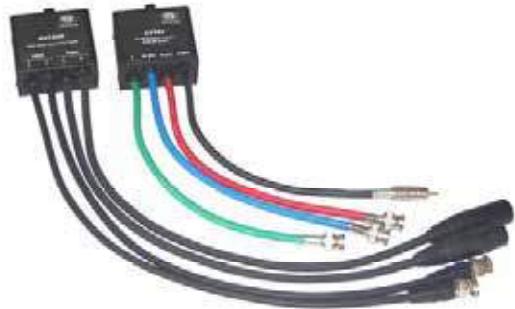
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Run video and stereo audio signals over Cat5 or better wiring. Up to 512 outputs possible from a single source. For efficiency, the system balances the input signal, distributes on UTP, and converts back at each display. Complete system design flexibility, with components that can be hundreds of feet apart. Low power requirements for the Hubs: display baluns need no external power Made in USA, 100% tested 	<p>The ETS CAT5 A/V Broadcast System is a UTP Audio/Video Distribution Hub. It has baseband video with two channels of line-level audio transmit through the distribution amplifier, creating 8 out-put sets (video + stereo audio) from a single source. The powered AV608 can be cascaded twice (three tiers), yielding a total distribution of 512 displays from just one input source.</p> <p>NTSC, PAL, SECAM or CCTV signals are converted to and from UTP using the AV900 or AV901 Baseband Audio/Video Baluns. Alternatively, the AV602 or AV603 Isolated Video/Audio Source Balun may be used between the signal source and the first AV608. The AV602 or AV603 provides full isolation of the video signal, preventing the visual artifacts that can be caused by ground loops.</p> <p>The AV608 System supports color video and stereo audio over a total run length in excess of 330 meters (inclusive of all cable segments) on Category 5 or better cable. Black and white signals will typically be supported up to 750 meters.</p>	<ul style="list-style-type: none"> Point-of-Sale and In-store Advertising Information and Entertainment Distribution Educational Installations Healthcare Facilities Worship Halls

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (video) / 10Hz to 20kHz (audio)	AV602	Isolated Video/Audio Source, (1) FBNC + (2) RCA
Connectors	BNC or RCA (video) / (2) RCA (audio) to RJ45 (pairs 2, 3 & 4 - Cat5)	AV603	Jack to RJ45 Jack, pins 1,2,3,6,7&8
Crosstalk	>50dB (video)	AV608	Isolated Video/Audio Source,(3) RCA Jack to RJ45 Jack, pins 1,2,3,6,7&8
Impedance	600:600 (audio)		UTP Audio/Video Distribution Hub, 8 Channel
Isolation	Audio: 500 V (per channel)		
Power In	9-12 VAC, 800mA min. with supplied Adapter.		
Distance	Up to 1000 ft		
Dimensions	AV608: 260 x 165 x 32 mm (10.3 x 6.5 x 1.3 in) AV602/603: 140 x 85 x 40 mm (5.5 x 3.4 x 1.6 in)		
Net Weight	AV608: 1.5 kg (3.4#) AV602/603: 0.2 kg (0.4#)		

© Copyright 2006 - 2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/16/11

AV790 Series Audio Video Camcorder Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Sends both video camcorder & audio signals on UTP Increased pixel resolution (bandwidth 270 MHz) Passive unit (needs no external power) Meets FCC Class A standards Superior signal balance; reduces crosstalk, ingress, and ghosting Can utilize existing telecom wiring Sturdy compact metal case Made in USA; 100% tested 	<p>The ETS AV790 Series of video camcorder and audio baluns enable video cameras to send HD component signals, composite video signals, and analog audio signals over a single CAT5, CAT5E, or CAT6 UTP cable!</p> <p>Optional configurations: four composite video, HD component video + audio and dual composite video/dual mono-audio. Used in pairs, the ETS baluns support 480p to 1080p video formats.</p> <p>ETS has designed a custom part for a customer for use with SetCom™ devices. The AV790, AV794, and AV796 models used in this application are both highly cost-effective and quickly and neatly installed. The single UTP cable replaces more costly and much heavier coaxial cables.</p>	<ul style="list-style-type: none"> Broadcast/recording studios Production and post-production facilities Conference rooms Music video locations or stages Motion picture production Amusement park live productions

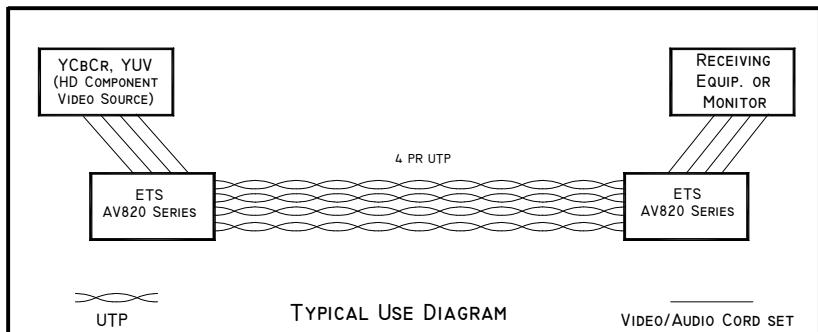
Specifications		Product Ordering Information	
Bandwidth	Flat to 270 MHz (video per channel) 10 Hz to 20 KHz (analog audio)	AV791	HD Component + Analog Audio, (3) MBNC + (1) RCA plug 10" pigtail to Ethercon RJ45 jack, all pins
		AV792	HD Component + Analog Audio, (3) MBNC + 1 RCA plug 18" long pigtail to Ethercon RJ45 jack, all pins
Common Mode Rejection	>50dB (video)	AV790	Set of AV790T & AV790R
Impedance	600:600 (analog audio)	AV790T	Dual Video/Dual Analog Audio, (2) MBNC + (1) RCA plug, 2 ft + (1) MXLR, 3 ft long pigtail to Ethercon RJ45 jack, all pins
Isolation Connectors	500 V (analog audio) MBNC or RCA plug and XLR to Ethercon RJ45 jack	AV790R	Dual Video/Dual Analog Audio, (2) MBNC + (1) MXLR, (1) FXLR, 3 ft pigtail to Ethercon RJ45 jack, all pins
Distance	Up to 500 ft (component video) Over 1000 ft (composite video)	AV794	Set of AV794T & AV794R
Dimensions	70mm x 66mm (+ pigtail) x 36mm	AV794T	Dual Video/Dual Mono Audio (2) MBNC + (1) MXLR + (1) FXLR, 2 ft pigtail to Ethercon RJ45 jack, all pins
Net Weight	0.30 kg - AV791; 0.45 kg - AV792	AV796	Dual Video/Dual Mono Audio (2) MBNC + (1) FXLR + (1) MXLR, 3 ft pigtail to Ethercon RJ45 jack, all pins
		AV796T	Set AV796T & AV796R
		AV796R	Dual Video/Dual Mono Audio (2) MBNC + (1) MXLR + (1) FXLR, 16 " pigtail to Ethercon RJ45 jack, all pins
		PV790	Dual Video/Dual Mono Audio (2) MBNC + (1) FXLR + (1) MXLR, 16 " pigtail to Ethercon RJ45 jack, all pins
		PV791	Quad Video, (4) MBNC 1 ft pigtail to Ethercon RJ45 jack, all pins
			Quad Video, (4) MBNC 2 ft pigtail to Ethercon RJ45 jack, all pins

© Copyright 2010 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/03/11

AV820 Series

High Definition Component Video & Audio



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send High-Definition Component video and audio signals on UTP at distances of up to 500 ft Increased pixel resolution with a bandwidth of 270 MHz Passive unit: no power required RCA jacks for home theater BNC connectors for professional use Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting Utilizes existing telecom wiring Sturdy compact plastic case Made in USA 100% tested 	<p>The ETS AV820 Series of High Definition Component Video + Audio Baluns are designed for ease of use and consistent signal labeling in applications that utilize component video signals.</p> <p>Component video formats include RGB, YUV, YIQ and YCrCb. Custom labeling is available for use with your application as required (YCrCb shown above). Due to custom labeling requirements, additional lead times <i>may</i> apply for these products.</p> <p>YCrCb component video is a recent addition to consumer equipment found on some DVD players, high-end televisions and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards.</p> <p>High Definition Component Video + Audio for high-end home and professional theaters will transmit signals from 480p to 1080p resolution video.</p> <p>AV822 requires two Category 5 cables for transmission.</p>	<ul style="list-style-type: none"> DVD / Home Theater Broadcast Studios Production and Post-Production Facilities Video Projection Systems Conference Rooms Schools Healthcare Facilities

Specifications		Product Ordering Information	
Bandwidth	Flat to 270 MHz (Video, per channel) 10 Hz to 20 KHz (Analog Audio) 20 KHz to 60 KHz (Digital Audio)	AV822	HDCVB + Stereo Audio, (5) RCA jacks to (2) RJ45 jacks Video: pins 1,2,3,6,7 & 8 on RJ45 jack #1 Audio: pins 1,2,3 & 6 on RJ45 jack #2
Common Mode Rejection	>50dB (Video)	AV823	HDCVB + Mono Audio (4) RCA jacks to RJ45 jack, all pins
Impedance Isolation	600:600 (Analog Audio) 500 V (Analog Audio, per channel)	AV824	HDCVB + Digital Audio (4) RCA jacks to RJ45 jack, all pins
Connectors	FBNC's or RCA jacks to RJ45 jack	AV825	HDCVB + Mono Audio (3) FBNCs + (1) RCA to RJ45 jack
Distance	500 ft	AV826	HDCVB + Digital Audio (3) FBNCs + (1) RCA to RJ45 jack
Dimensions	75mm x 113mm x 25mm (AV822) 66mm x 68mm x 28mm (AV823 & 824) 66mm x 83mm x 28mm (AV825 & 826)	PV890-J3	Set of 3 Coax RG59U jumper cables, 12" each
Net Weight	0.1 kg (AV823,824,825&826), 0.15 Kg (AV822)	<p><u>Note:</u> Video: Y (pins 7,8), Cr (pins 1,2), Cb (pins 3,6) Audio: (pins 5,4)</p>	

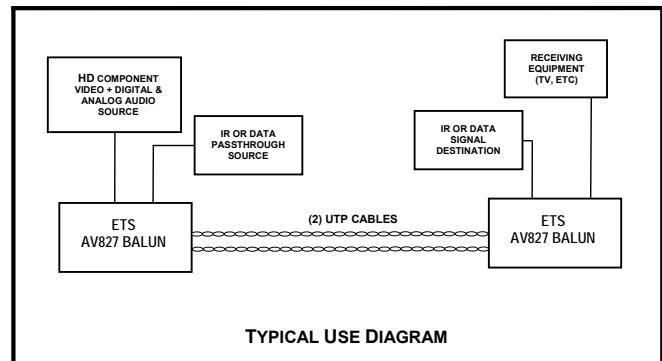
© Copyright 2006-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 4/24/14

AV820 Series

HDTV Balun with Data and IR & Audio



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send High Definition Component video and audio signals on UTP at distances of up to 500 ft Increased pixel resolution – up to 1080 pixels with a bandwidth of 270 MHz Passive unit – no power required IR Information pass-through Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting Wall or rack mount, up to 6 units, 2 racks high May utilize existing telecom wiring Sturdy compact metal case Made in USA 100% tested 	<p>The ETS AV827 is a High Definition Component Video + Digital Audio + Analog Stereo Audio + IR or Data Pass Through balun. This balun is designed for ease of use and consistent signal labeling in applications that utilize component video signals.</p> <p>Component video formats include RGB, YUV, YIQ and YPbPr. Custom labeling is available for use with your application as required (YPbPr shown above). Due to custom labeling requirements, additional lead times <i>may</i> apply for these baluns.</p> <p>YPbPr component video is a recent addition to consumer equipment found on some DVD players, high-end televisions, and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards.</p> <p>The High Definition Component Video + Digital Audio + Analog Stereo Audio + IR or Data Pass Through balun series is for high-end home and professional theaters that transmit signals from 480p to 1080p resolution video.</p>	<ul style="list-style-type: none"> Broadcast Studios Digital Signage DVD / Home Theater Conference Rooms Production and Post-Production Facilities Schools Video Projection Systems Healthcare facilities

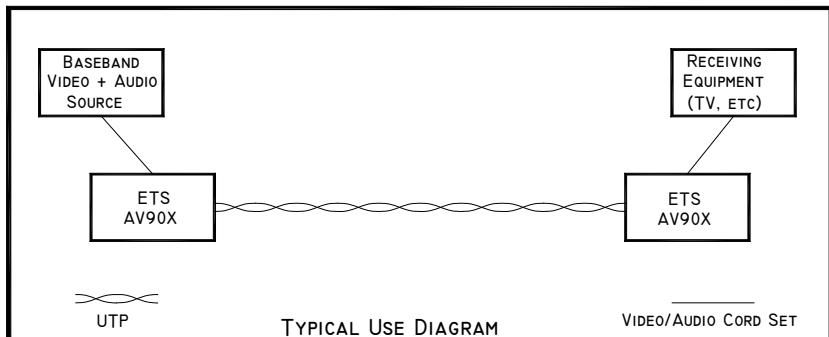
Specifications		Product Ordering Information	
Bandwidth	Flat to 270 MHz (Video, per channel) 10 Hz to 20 KHz (Analog Audio) 20 KHz to 60 MHz (Digital Audio)	AV827	HDCVB + Digital Audio + Stereo Audio + IR or Data Pass Through, (6) RCA jacks + screw terminals to (2) RJ45, jacks, all pins
Common Mode Rejection	>50dB (Video) 600:600 (Analog Audio)	AV828	HDCVB +Digital Audio + Stereo Audio + IR or Data Pass Through (3) FBNC for Video + (3) RCA jacks, + screw terminals to (2) RJ45 jacks, all pins

© Copyright 2006-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 09/26/2011

AV900 Series

Baseband Video/Stereo Audio Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> 1 baseband video channel and 2 balanced audio channels on one run of UTP Use for point to point replacement of coax and shielded cables Rugged plastic cases Made in USA 100% tested 	<p>The ETS AV900 and AV901 Baseband Video/Stereo Audio Baluns are utilized for point-to-point replacement of coaxial (video) and shielded (high impedance audio) cables with UTP wiring, Category 5 or better.</p> <p>The AV900 (with a FBNC video input plus dual RCA jacks for audio) and the AV901 (with 3 RCA jacks for all inputs) are designed for installations that have a need for separate audio channels. For example, some VCRs and Video Cameras have video plus stereo outputs available on three RCA jacks. The AV901 can run these signals using three of the four pairs in standard UTP cable.</p> <p>The AV905 and AV906, which allow you to send two channels each of baseband video and audio in any direction desired. This capability yields, for instance, a bi-directional video + mono audio link, or many other configurations.</p>	<ul style="list-style-type: none"> Schools Classrooms Auditoriums Home Theater Security & Surveillance Satellite TV Facilities Personal Computers

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (video) / 10Hz to 20kHz (audio)	AV900	VSB, (1) FBNC video pins 8,7 + (2) RCA jack Audio to RJ45 jack, pins 1,2 & 3,6
Connectors	FBNC or RCA jack (video) / (2) RCA jack (audio) or screw terminals (audio) to RJ45 jack, Data Pass Through (audio)	AV900PT	VSB + Pass Through, (1) FBNC + (2) RCA jacks + (1) 2 position terminal to RJ45, all pairs used
Crosstalk	>50dB (video)	AV900S	VSB, (1) FBNC video pins 8,7 + Screw terminals Audio to RJ45 jack, pins 1,2 & 3,6
Impedance	600:600 (audio)	AV901	VSB, (3) RCA jack, Video, pins 8,7 + (2) Audio to RJ45 jack, pins 1,2 & 3,6
Isolation	500 V (audio, per channel)	AV901PT	VSB + Pass Through, (3) RCA jacks + (1) 2 position terminal to RJ45, all pairs used
Distance	Audio – 1000 ft; Video – Color 1200 ft, B/W 2500 ft	AV905	DVDA, (2) FBNC Video pins 1,2 * 7,8 + (2) RCA jack Audio to RJ45, pins 3,6 & 5,4
Dimensions	66mm x 66mm x 28mm	AV906	DVDA, (2) RCA jack Video pins 1,2 & 7,8 + (2) RCA jack Audio to RJ45 jack, pins 3,6 & 5, 4
Net Weight	0.09 kg		

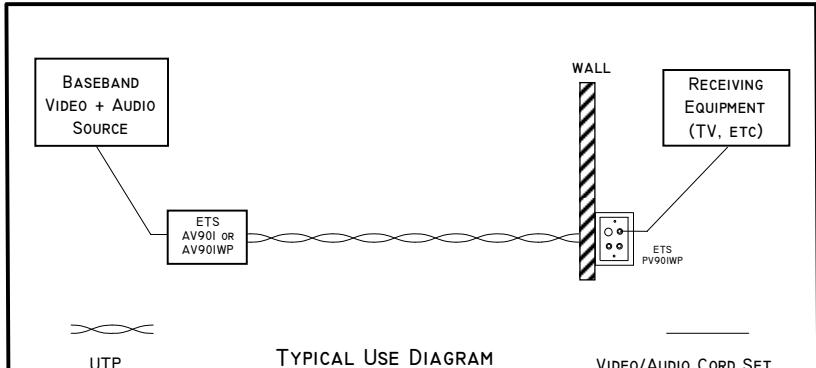
© Copyright 2004-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/01/2012

AV900W Series

Baseband Video/Stereo Audio Wall Plates



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator balun wall plates for a sleeker, cleaner professional installation Easy installation with punch down blocks Ports are pre-labeled and easily identified 1 or 2 baseband video channel and 2 line level audio channels on one run of Category 5 UTP Use for point to point replacement of coax and shielded cables Available in white or ivory Made in USA 100% tested 	<p>The ETS AV900WP, AV901WP and AV906WP Baseband Video/Stereo Wall Plates which are utilized for point-to-point replacement of coaxial (video) and shielded (high impedance audio) cables with UTP wiring, Category 5 or better.</p> <p>The AV901WP (with 3 RCA jacks for all inputs) is designed for installations that have a need for separate audio channels. For example, some VCRs and Video Cameras have video plus stereo outputs available on three RCA jacks. The AV901WP can run these signals using three of the four pairs in standard UTP cable.</p> <p>AV906WP (with 4 RCA jacks for all inputs) allows you to send two channels each of baseband video and audio in any direction desired. This capability yields, for instance, a bi-directional video + mono audio link, or many other configurations.</p> <p>You get the same high quality baluns with the addition of an enhanced appearance of wall plates, giving you a neat, professional installation.</p>	<ul style="list-style-type: none"> Schools Classrooms Auditoriums Home Theater Security & Surveillance Satellite TV Facilities Personal Computers

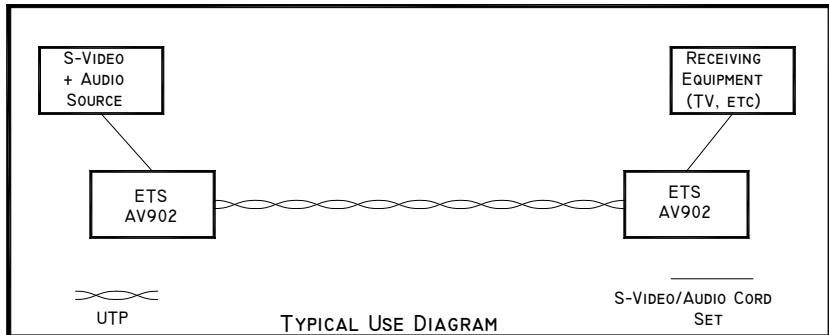
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (video) 10Hz to 20kHz (audio)	AV900WP-X	Video + Stereo Audio (1) FBNC + (2) RCA jacks to 110 punch -down
Connectors	FBNC or RCA jack (video)+2 RCA jacks (audio) to 110 punch down type	AV901WP-X	Video + Stereo Audio, (3) RCA jack to 110 punch -down
Common Mode Rejection	>50dB (video)	AV906WP-X	Dual Video + Dual Audio, (4) RCA jack to 110 punch-down
Impedance	600:600 (audio)		
Isolation	500 V (audio, per channel)		
Distance	Audio – 1000 ft; Video – Color 1200 ft,	B/W 2500 ft	
Dimensions	79mm x 123mm x 40mm		<u>NOTE: FOR WHITE, X= WH</u>
Net Weight	0.08 kg		<u>FOR IVORY, X= IV</u>

© Copyright 2004-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/01/2011

AV902 Series S-Video / Stereo Audio Baluns



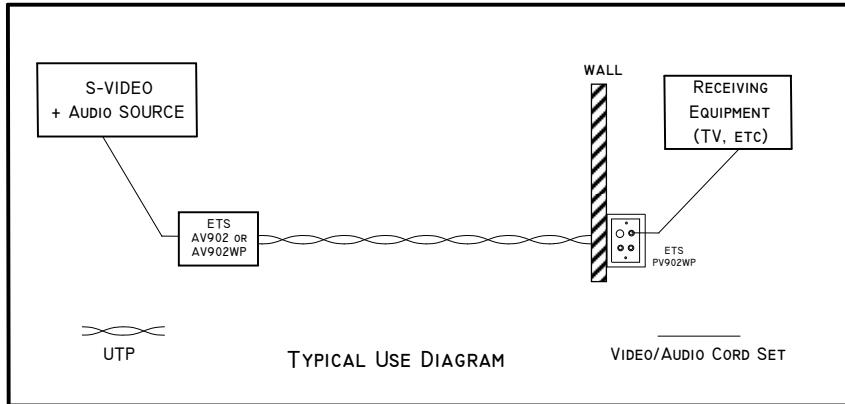
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> S-Video (Y/C baseband) channel and 2 audio channels on one run of UTP Use for point-to-point replacement of coax and shielded cables Rugged plastic case Made in USA 100% tested 	<p>The ETS AV902 S-Video/Stereo Audio Balun adapts Cat5 or better premise wiring for use with Super-VHS, Hi-8 and other "Y/C" format, high quality video signals. The AV902 uses the industry standard 4 pin mini-DIN connector for video, and RCA jacks for the two audio channels. This arrangement complements the connectors on most high-end consumer and Y/C format professional video devices.</p> <p>The AV902 is a passive (non-powered) device. It is bi-directional, in the sense that identical baluns are used on transmit and receive ends of the run of UTP. Used in pairs to adapt both ends of a run of Cat5 or better cable, the result is clean, transparent video and audio transmitted over distances exceeding 300 meters.</p> <p>The AV918 is a (powered) UTP S-Video/Stereo Distribution Hub which has two channels with audio transmission through the distribution amplifier creating 8 output sets from a single source.</p>	<ul style="list-style-type: none"> Home Theater High-Resolution Remote Monitors "Prosumer" Video Equipment Video Projection Systems

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (video) / 10Hz to 20kHz (audio)	AV902	S-Video (Mini-DIN) + (2) RCA Audio to RJ45 jack
Connectors	4 pin Mini DIN (video) / (2) RCA jack (audio) to RJ45 jack	AV918	S-Video, 8 Channel Distribution Hub
Crosstalk	>50dB (video)		
Impedance	600:600 (audio)		
Isolation	500 V (audio, per channel)		
Distance	1000 ft		
Dimensions	66mm x 66mm x 28mm		
Net Weight	0.09 kg		

© Copyright 2005-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/26/2011

AV902WP Series S-Video / Stereo Audio Balun Wall Plates



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator balun wall plates for a sleeker, cleaner professional installation Easy installation with 110 punch-down blocks Ports are pre-labeled and easily identified S-Video (Y/C baseband) channel and 2 audio channels on one run of UTP Use for point to point replacement of coax and shielded cables Available in white or ivory Made in USA 100% tested 	<p>The ETS AV902WP S-Video/Stereo Audio Balun wall plates with pre-labeled ports allowing for easy identification and giving neater complementary professional appearing installations.</p> <p>The AV902WP adapts Category 5 or better premise wiring for use with Super-VHS, Hi-8 and other "Y/C" format, high quality video signals. The AV902WP uses the industry standard 4 pin mini-DIN connector for video, and RCA jacks for the two audio channels. This arrangement complements the connectors on most high-end consumer and Y/C format professional video devices.</p> <p>The AV902WP is a passive (non-powered) device. It is bi-directional, in the sense that identical baluns are used on transmit and receive ends of the run of UTP. Used in pairs to adapt both ends of a run of Category 5 or better cable, the result is clean, transparent video and audio transmitted over distances in excess of 300 meters.</p>	<ul style="list-style-type: none"> Home Theater Classrooms Auditoriums High Resolution Remote Monitors Security & Surveillance Consumer Video Equipment Video Projection Systems

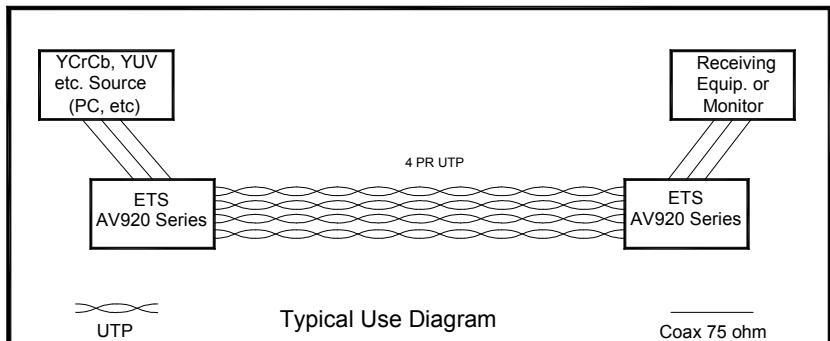
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (video) 10Hz to 20kHz (audio)	AV902WP-X	S-Video + Stereo Audio, Mini-DIN & (2) RCA jack to 110 punch down

© Copyright 2005-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/01/2011

AV920 Series

Baseband Component Video + Audio Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send Component Video + Audio signals on UTP at distances of up to 600 ft. RCA jacks for home theaters. BNC connectors for professional use. Meets FCC Class A. Superior signal balancing, lower crosstalk, less ingress and ghosting. May utilize existing telecom wiring. Sturdy compact plastic case. Made in USA. 100% tested. 	<p>The ETS AV920 Series of Component Video + Audio Baluns are designed for ease of use and consistent signal labeling in applications that utilize component video signals. Component video formats include RGB, YUV, YIQ and YCrCb. Custom label is available for use with specific application as required (YCrCb shown above). Due to custom labeling requirements, additional lead times <i>may</i> apply for these products.</p> <p>YCrCb component video is a recent addition to consumer equipment found on some DVD players, high-end televisions, and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards.</p> <p>The AV923 and AV925 enable sending component video and digital audio signals on single run CAT5 or better UTP.</p> <p>Note: AV929 requires two CAT5 cables for transmission.</p>	<ul style="list-style-type: none"> DVD / Home Theater Broadcast Studios Healthcare Facilities Production and Post-Production Facilities Video Projection Systems Conference Rooms Schools

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz, each channel (Video) 10 Hz to 20 KHz (Analog Audio) 20 KHz to 60 MHz (Digital Audio)	AV920	CV+Mono Audio, (3) FBNC + (1) RCA jack to RJ45 jack all pins
Connectors	FBNC's or RCA jacks to RJ45 jack	AV921	CV+Mono Audio, (4) RCA jacks to RJ45 jack, all pins
		AV921WP-X	CV+Mono Audio, (4) RCA jacks to RJ45 jacks to 110 punch down
Common Mode Rejection	>50dB (Video)	AV923	CV+DA (3) FBNC + (1) RCA jack to RJ45 jack, all pins
Emission Media	Meets FCC Class A Category 3 or better Category 5 or better recommended	AV925	CV+DA (4) RCA jacks to RJ45 jack, all pins
Distance		AV925WP-X	CV+DA (4) RCA jacks to RJ45 jacks to 110 punch down
Dimensions	500 ft 66mm x 75mm x 28mm (AV920, AV921, AV923 & AV925) 76mm x 111mm x 25mm (AV929)	AV929	CV+Stereo Audio (5) RCA jacks to (2) RJ45 jacks
Net Weight	0.09 kg (AV920, AV921, AV923 & AV925) 0.15kg (AV929)	PV890-J3	Set of 3 Coax RG59U jumper cables, 12" each

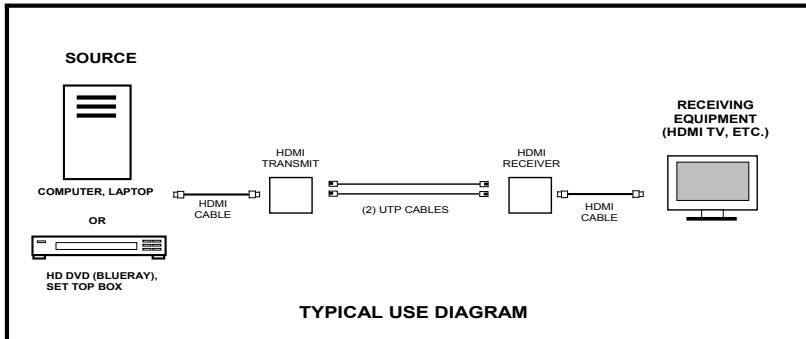
Note: Video: pins 1,2 3,6, & 7,8; Audio: pins 1,2 & 3,6
Y (pins 7,8), Cr (pins 3,6) and Cb (pins 1,2)

© Copyright 2006-2014 Energy Transformation Systems, Inc.
FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 01/30/2014

AV961G Series

HDMI Extender over 2 x Cat5/5e/6 Cables



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Fully automatic equalized up to 40dB, no system controls are required Fully supports HDMI v1.3 and HDCP compliant devices 1080p/60Hz, 1080i, 720p, up to 165 ft. (50 m) 1080i/60Hz, 720p, up to 264 ft. (80 m) Supported PC resolutions up to 1920x1200/60Hz Rugged metal housing with 2 LED indicators for "Power" and "EQ on" Transmitter automatically converts HDMI signal to CAT5 TMDS signal Auto signal equalizer with auto feedback amplification adjustment Easy "Plug and Play" One year warranty 	<p>The ETS HDMI CAT5/6 Extender (AV961G) gives excellent HD signal transmission with surround sound along with a high resolution picture. The ETSAV961G has signal transmission distances up to 115 feet (35m) in 1080p HDMI format. Using two Cat5/6 cables, users can extend HDMI sources from sources compliant with TMDS connecting with distant display monitors including HDMI/DVI enabled TVs or LCD PC monitors.</p> <p>A permanent installation using Cat5 or 6 cables in the wall will pass building inspections. HDMI cables do not pass.</p> <p>The ETS HDMI CAT5/6 Extender includes (1) transmit, (1) receiver and 5V power supply.</p> <p>Notes: 1. HDMI cables are sold separately. Available in 3 ft, 6 ft, 10 ft and 15 ft. Sold only in sets. 2. Will not support mini Mac HDMI or mini display port.</p>	<ul style="list-style-type: none"> Auditoriums Churches Classrooms Digital Signage Home Theaters Information Kiosks Conference Rooms Monitoring Stations Schools Trade Shows

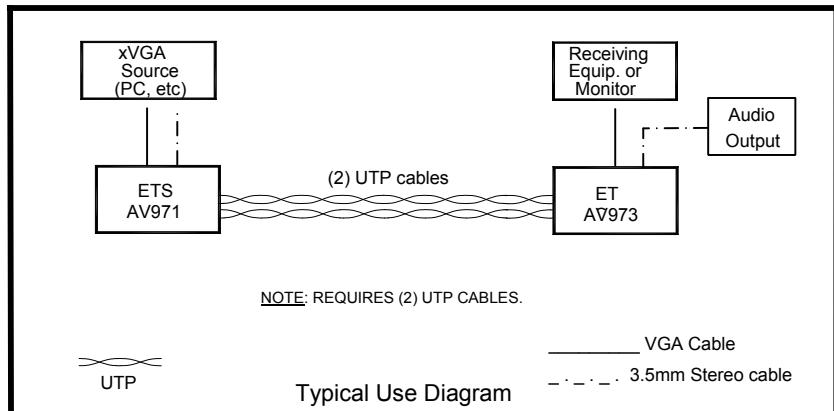
Specifications		Product Ordering Information	
Video bandwidth	2.25 Gbits/s per channel	AV961G	HDMI CAT5 Extender, (1) Transmit + (1) Receive and power supply (Only sold in sets.)
Support resolution	1080i 50/60Hz, 1080p 50/60Hz, 480i/480p, 576i/576p, 720p 50/60Hz	EC-HDMI-3	3.00 ft HDMI cable, male to male connector
Support audio	Dolby-AC3, DTS-HD, DTS7.1, LPCM, DSD	EC-HDMI-6	6.00 ft HDMI cable, male to male connector
DDC signal	5 volts peak-to-peak	EC-HDMI-10	10.00 ft HDMI cable, male to male connector
Clock adjustment phases	6	EC-HDMI-15	15.00 ft HDMI cable, male to male connector
Max. transfer length	Up to 50 meters for 1080p; 80 meters for 1080i		
Power supply	5VDC, 100 mA (max. working current)		
HDCP version	HDCP1.2		
Dimensions (LWH)	63 x 46 x 23mm		
Net Weight	125g (receive); 122g (transmit)		

© Copyright 2008-2012 Energy Transformation Systems, Inc FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 12/12/2012

AV970 Series

VGA + Stereo Audio Video Balun, Set



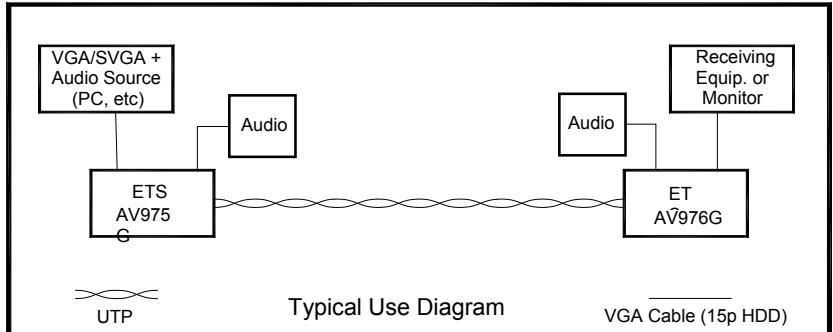
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Run VGA/SVGA/XVGA and line level audio signals over CAT5 cable Compatible with all VGA/ SVGA/XGA modes Rugged plastic cases Made in USA 100% tested 	<p>The ETS AV970 VGA Video + Stereo Audio Balun Set allows computer video + stereo audio signals that adhere to the VGA/SVGA/XVGA standards to be transmitted over Category 5 or better UTP cable. All modes and resolutions operate normally.</p> <p>Distance and quality of transmission are dependent on the type of cable used and monitor sync circuitry. Ordinary UTP cabling may be used; however, distance and quality are enhanced with Cat5 or better cable. The circuitry in the AV970 set of VGA video baluns is fully passive, requiring no external power.</p> <p>NOTE: For transmission, two Cat5 cables are required.</p>	<ul style="list-style-type: none"> Meeting Halls Churches Schools Classrooms Auditoriums Information Kiosks Monitoring Stations Trade Shows

Specifications		Product Ordering Information	
Bandwidth	Flat to 60MHz (video) / 10Hz to 20KHz (Audio)	AV970	Set, VGA+Stereo Audio Baluns: AV971 + AV973
Impedance	600:600 ohm (audio)	AV974	Set, VGA+Stereo Audio Baluns: AV971 + AV972
Connectors	15 pin HDD + 3.5mm mini plug + RCA jack to (2) RJ45 jacks Red: HDD 1 & 6 to 1 & 2 RJ45 jack (#1) Green: HDD 2 & 7 to 5 & 4 RJ45 jack (#1) Blue: HDD 3 & 8 to 7 & 8 RJ45 jack (#1) Hor-synch: HDD 13 & 10 to 5 & 4 RJ45 jack (#2) Vert-synch: HDD 14 & 10 to 7 & 8 RJ45 jack (#2) Audio: (L) RCA jack to 1 & 2 RJ45 jack (#2) Audio (R) RCA jack to 3 & 6 RJ45 jack (#2)	AV971	Computer End (Mini-Plug for Stereo Audio)
Dimensions	140mm x 85mm x 40mm	AV972	Monitor End, VGA + Stereo mini jack to RJ45 jack
Net Weight	0.25 kg for AV971; 0.16 for AV973	AV973	Monitor End (RCA Jack for Stereo Audio)

© Copyright 2005-2011 Energy Transformation Systems, Inc.
 FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/03/2013

AV974G Series Active VGA Video + Audio Balun, Set



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Designed for video projectors where signal control is important Extends VGA and audio signals without delay Supports video resolution at the distance between 640x480 to 1920x1440 No driver needed, easy installation Supports all computer operating systems Rugged metal cases 1 year warranty 	<p>The ETS AV974G Active VGA Video Balun Set enables computer video signals that adhere to the VGA/ SVGA, X VGA standards to be transmitted over Category 5 or better UTP cable up to 500 feet away with resolution up to 1024 x 768 with an added feature for an audio signal.</p> <p>The AV975G (computer end) duplicates the input signal for local use and transmits the VGA + Audio signal to the AV976G (monitor end) broadcasts the signal to a single VGA + Audio outputs.</p> <p>A user adjustment screw for gain and equalization ensures optimum signal clarity. A small screwdriver for adjustment is included.</p>	<ul style="list-style-type: none"> Auditoriums Boardrooms Churches Classrooms Digital Signage Information Kiosks Meeting Halls Monitoring Stations Retail - POS Schools Trade Shows

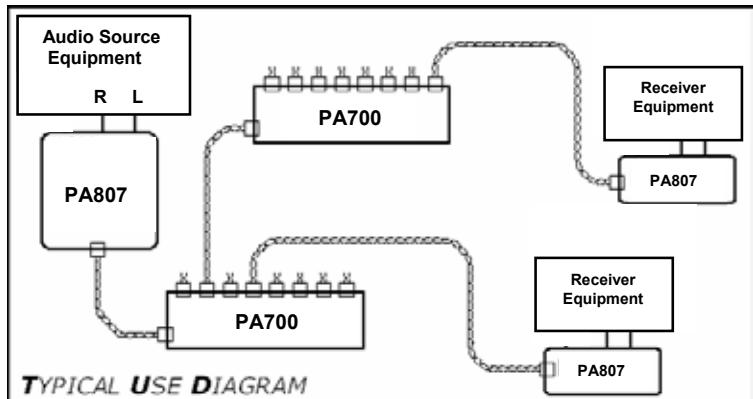
Specifications	Product Ordering Information		
Signal type	VGA, SVGA , X VGA, Multisync	AV974G	Active VGA + Audio Set, 1 AV975G, 1 AV976G
Video Amplifier Bandwidth	350 Mbps		Active VGA + Audio, Computer End AV975G
Input DDC Signal	0.7 Volts p-p (TTL)		Active VGA + Audio, Monitor End AV976G
Signal Noise Ratio	90dB		
Support Specification	Plug and Play		
Transmitter Connector	HDB-15 Female (2)		
Receiver Connector	HDB-15 Female (1)		
Audio Connector	3.5mm stereo		
Link Connector	RJ-45		
Power Supply	5V DC, 2.0A	VGA	800 x 600
Dimensions	Transmitter: 112mm x 56.5mm x 27mm Receiver: 94.5mm x 52mm x 27mm	SVGA	1024 x 768
Net Weight	Transmitter: 215g Receiver: 187g	XVGA	1280 x 1024
		WUXGA	1920 x 1440
			1000 ft
			800 ft
			500 ft
			210 ft
		These are conservative distances, as this active adjustable unit compensates for many variables such as lower cable quality.	

© Copyright 2006-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/26/2011

PA700 Series Analogue Audio Distribution Hub



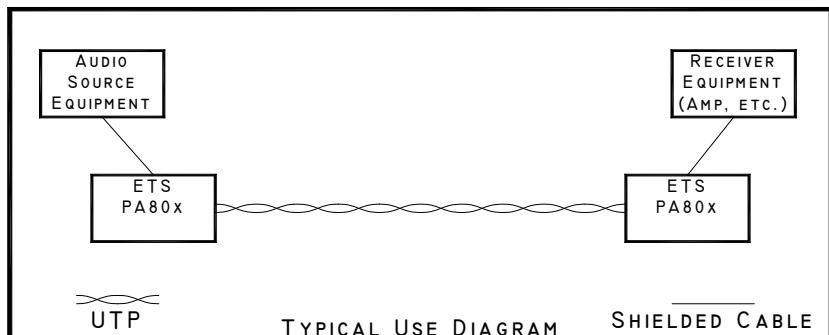
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send stereo audio signals over Cat5 wiring Up to 512 outputs possible from a single source For efficiency, the system balances the input signal, distributes on UTP, and converts back at each receiver Complete system design flexibility, with components that can be several hundred feet apart Low power requirements for the hubs: display baluns need no external power Made in USA, 100% tested 	<p>The Cat5 Audio Broadcast System from ETS, the PA700 UTP Analog Audio Distribution Hub (pictured above) has two channels of line-level audio transmitted through the distribution amplifier, creating 8 output sets (stereo audio) from a single source.</p> <p>The powered PA700 can be cascaded twice (three tiers), yielding a total distribution of 512 receivers from a single input source.</p> <p>Audio signals are converted to and from UTP using the standard ETS PA807 Analog Audio Balun.</p> <p>The PA700 System supports stereo audio over a total run length exceeding 100 meters (inclusive of all cable segments) on Category 5 or better cable.</p>	<ul style="list-style-type: none"> Home Theater Systems Meeting Halls Churches Schools Classrooms Auditoriums Healthcare Facilities Cruise Ships Factories

Specifications		Product Ordering Information	
Bandwidth	10Hz to 20kHz	PA700	UTP Audio Stereo Distribution Hub, 8 Channel
Connectors	(9) RJ45 jack s – (1) in (8) out		
Impedance	600:600		
Isolation	500 V (per channel)		
Power In	9-12 VAC, 800mA min. with Power Adapter supplied		
Distance	Up to 1000 ft.		
Dimensions	260 mm x 165 mm x 32 mm (10.3 x 6.5 x 1.3 in)		
Net Weight	1.5 kg (3.40 Lbs)		

© Copyright 1999-2011 Energy Transformation Systems. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/11

PA800 Series Analogue Audio Adaptor



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Full audio bandwidth Minimizes spurious signal ingress Eliminates ground loops Rugged plastic case Made in USA 100% tested 	<p>The ETS PA800 Series of Analog Audio Adapters is ideal for use in applications requiring audio signals to be sent over distances greater than 4 meters. Signals may be sent in either direction. By balancing and isolating signals, the audio signals can be safely sent over 100 meters.</p> <p>The PA807 Stereo Audio Adapter and the PA808 Dual Stereo Audio Adapter is housed in a standard middle-size case. The PA807 or PA808 gives the capability of sending 2 or 4 audio signals down a single run of UTP (utilizing 2 or 4 pairs), without using a "hydra" assembly. Additionally, the PA808 enables bi-directional stereo audio to pass over a single UTP run.</p> <p>The PA807PT Analog Audio Adapter is a 2 channel adapter with a pass through that allows the installer to connect the unused pairs for data or other connections as needed.</p>	<ul style="list-style-type: none"> Home theater systems Meeting halls Churches Schools Classrooms Auditoriums Live theaters

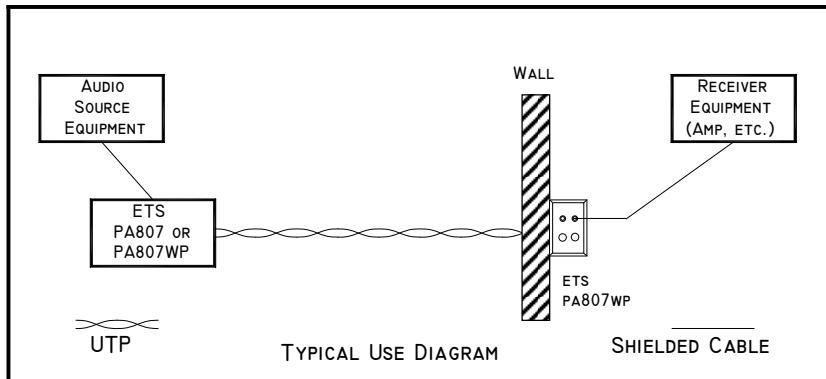
***NOTE : DO NOT DRIVE SPEAKERS USING THESE PRODUCTS.** Use only with line-level, unamplified signals (source to pre-amp or amplifier), to be transmitted over distances exceeding approximately 4 meters.

Specifications		Product Ordering Information	
Bandwidth	10 Hz to 20 kHz	PA800	Analog Audio, RCA to RJ45, pins 4, 5
Connectors	RCA jack(s) to RJ45	PA801	Analog Audio, RCA to RJ45, pins 1, 2
Impedance	600:600	PA802	Analog Audio, RCA to RJ45, pins 3, 6
Isolation	500V	PA803	Analog Audio, RCA to RJ45, pins 7, 8
Signal level	1.0 V (nominal)	PA804	Analog Audio, MBNC to screw terminals
Distance	1000 ft	PA805	Analog Audio, FBNC to 6" pigtail MXLR
Dimensions	46mm x 25mm x 19mm (PA800 – 803)	PA806	Analog Audio, FBNC to 6" pigtail, FXLR
	66mm x 66mm x 28mm (PA807, PA808)	PA807	Analog Audio, (2) RCA to RJ45, pins 1, 2 & 3,6
Net Weight	0.02 kg (0.07 for PA807, 0.09 for PA808)	PA807PT	Analog Audio + Pass Through, (2) RCA jacks + (1) 4 position terminal to RJ45, all pairs used
		PA808	Analog Audio, (4) RCA to RJ45, all pairs used

© Copyright 1999-2011 Energy Transformation Systems FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA800WP Series Analogue Audio Adaptor Wall Plates



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator wall plates for a sleek, clean, professional installation Easy installation with punch-down blocks Ports are pre-labeled and easily identified Full audio bandwidth Minimized spurious signal ingress Eliminates ground loops Compact plastic case Made in USA 100% tested Available in White or Ivory 	<p>The ETS PA800WP Series of Analog Audio Adapters has been designed with a new flat circuit board and decorator wall plate, yielding neat, highly professional installations by complementing existing wall plates. For ease of use, all ports are pre-labeled.</p> <p>The PA807WP and PA808WP are ideal for use in applications requiring audio signals to be sent over distances greater than 4 meters. Signals may be sent in either direction. By balancing and isolating, the audio signal can be safely sent over 100 meters.</p> <p>The PA807WP or PA808WP enable sending 2 or 4 audio signals down a single run of UTP (utilizing 2 or 4 pairs), without having to use a "hydra" assembly. Additionally, the PA808WP enables sending bi-directional stereo audio over a single UTP run.</p>	<ul style="list-style-type: none"> Home Theater Systems Meeting Halls Churches Schools Classrooms Auditoriums Live Theater Healthcare Facilities

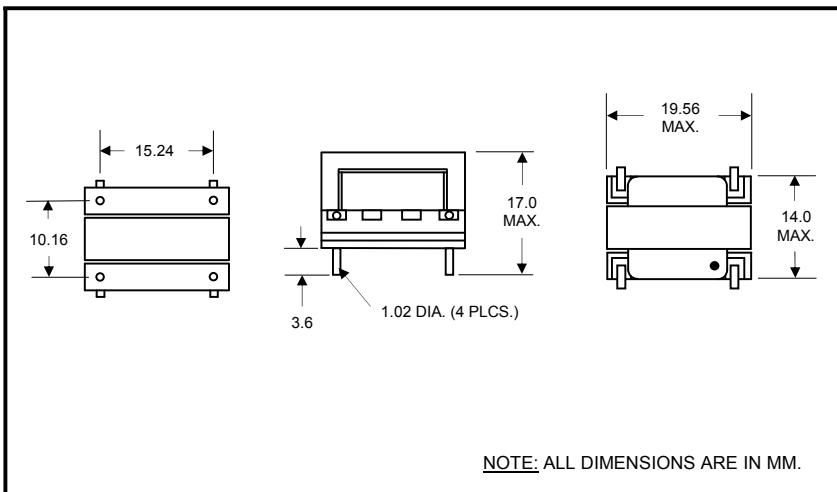
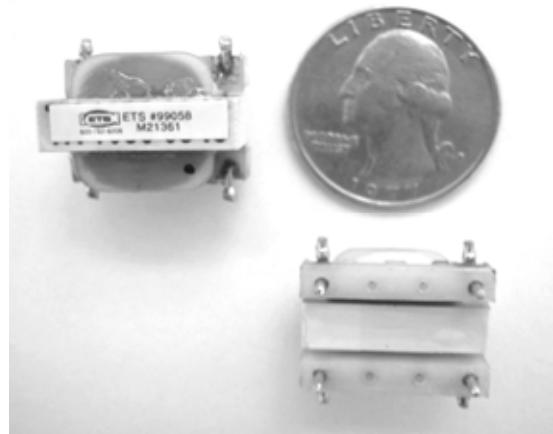
***NOTE – DO NOT DRIVE SPEAKERS USING THESE PRODUCTS.** Use only with line-level, unamplified signals (source to pre-amp or amplifier) to be transmitted over distances exceeding approximately 4 meters.

Specifications		Product Ordering Information	
Bandwidth	10 Hz to 20 kHz	PA807WP-X	Analog Audio,(2) RCA jacks to 110 punch down
Connectors	RCA jack(s) to 110 punch down type	PA808WP-X	Analog Audio,(4) RCA jacks to 110 punch down
Impedance	600:600		
Isolation	500V		
Signal level	1.0 V (nominal)		
Distance	1000 ft.		
Dimensions	79mm x 123mm x 40mm	NOTE: FOR WHITE, X = WH FOR IVORY, X = IV	
Net Weight	0.08 kg for PA807WP 0.11 kg for PA808WP		

© Copyright 2005-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/20/11

PA800XFMR Audio Transformer



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Full audio bandwidth Minimizes spurious signal ingress 	<p>The ETS Audio Transformer is ideal for use in applications sending line-level audio signals. Note that signals may be sent in either direction.</p> <p>By balancing the audio signal as well as isolating it, signals can be dependably sent over 100 meters.</p>	<ul style="list-style-type: none"> Home Theater Systems Auditoriums Churches Schools & Classrooms Healthcare Facilities Concert Venues

Specifications		Product Ordering Information	
Bandwidth	10 Hz to 20 kHz	PA800XFMR	Audio Transformer

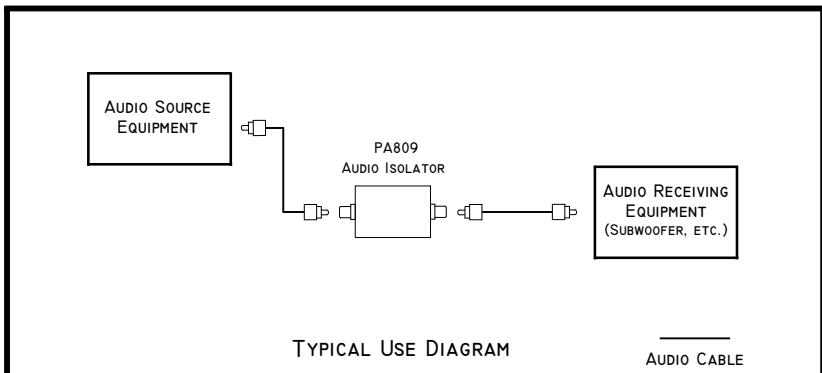
© Copyright 2004-2014 Energy Transformation Systems

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 02/03/2014

PA809 Audio Isolator

Analogue Audio Isolator - RCA jack to RCA jack



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> • Eliminates ground loops • Passive Device (needs no power) • Rugged lightweight thermoplastic case • Made in USA • 100% tested • Small footprint 	<p>Ground loops occur when multiple audio elements are connected to different outlets. Hum and "noise" in the audio signal are usually the result of ground loops in the system.</p> <p>The ETS PA809 solves this common audio problem of extraneous noise. Installing the PA809 Analog Audio Isolator between the source and the receiver eliminates hum, vastly improving the listening experience.</p> <p>The PA809 is conveniently equipped with RCA "pin-plug"-style female jacks at both input and output sides.</p> <p>Installing the PA809 is a ten-second operation—simply plug it in. No battery and no further maintenance are ever needed.</p>	<ul style="list-style-type: none"> • Home theater systems • Meeting halls • Churches • Conference rooms • Classrooms • Auditoriums • Broadway theaters • Seasonal venues

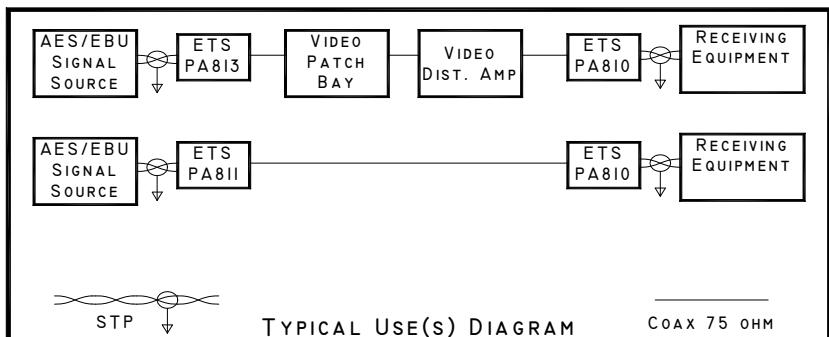
Specifications		Product Ordering Information	
Bandwidth	10 Hz to 20 kHz	PA809	Analog Audio Isolator – RCA jack to RCA jack
Connectors	RCA jack to RCA jack		
Impedance	600 ohm input		
Isolation	500V		
Signal level	1.0 V (nominal)		
Dimensions	70mm x 40mm x 26mm		
Case	Thermoplastic resin		
Net Weight	0.03 kg		

© Copyright 2013 Energy Transformation Systems FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

6/24/2013

PA810 Series

Digital Audio Baluns & Balun Panels



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Converts AES/EBU digital audio between balanced 110Ω XLR and unbalanced 75Ω BNC Separate baluns, or rack-mountable panel versions Panel mount has monitor port for each channel Available in isolated versions* to route signals via video patch bays and eliminate ground loops 10 dB pad available to attenuate signals to 1 V_{P-P} for compatibility with VDA and router equipment All-metal case and chassis Made in USA 100% tested 	<p>ETS, long a leader in baluns for computer networks, applies our expertise in Balanced Line™ technology to the XLR to BNC Digital Audio Baluns (DAB) and DAB Panels. The PA810 Series of baluns and balun panels from ETS is designed to connect AES/EBU signals from XLR output equipment into standard 75Ω coax cabling systems. These baluns perform precise impedance-matching and signal balancing, enabling AES/EBU signals to be transmitted with greater signal integrity and longer runs over coaxial cable than can be achieved with STP wiring. Isolated versions are available for VDA and router applications.</p> <p>Other members of this family are the PA818-X Digital Audio Panels which incorporates all of the functionality of ETS baluns in a convenient, 8-channel, single-rack height unit. Isolated outputs and monitor ports for each channel are standard.</p> <p>The PA819 "Re-Balancer" balances signals into a true balanced-line performance.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post-Production Facilities Satellite TV Facilities Television Studios

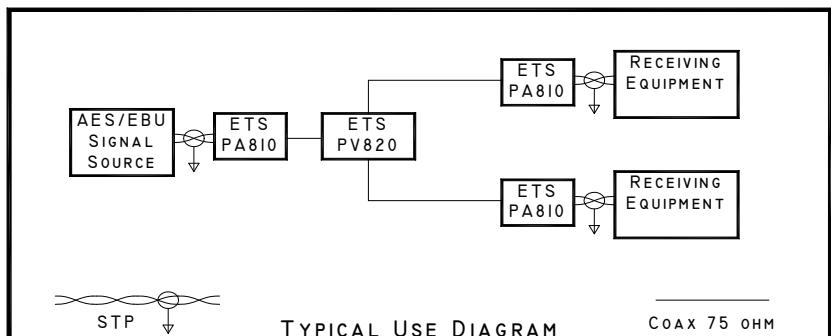
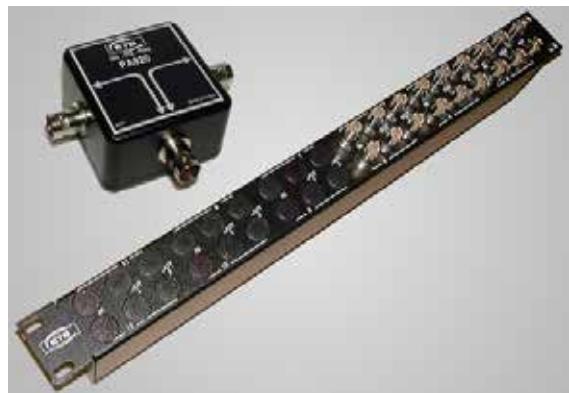
*NOTE: Versions of PA810, PA811 and PA813 available with isolation and with BNC male as custom order products.

Specifications		Product Ordering Information	
Bandwidth	20 kHz to 60 MHz (1 dB)	PA810	AES/EBU Balun, FBNC to MXLR
Connectors	XLR to BNC	PA811	AES/EBU Balun, FBNC to FXLR
Insertion Loss	< 0.15 dB	PA812	AES/EBU Balun, FBNC to MXLR, 10dB [atten 1Vp-p]
Max Signal	5V _{P-P}	PA813	AES/EBU Balun, FBNC to FXLR, 10dB [atten 1Vp-p]
Impedance Match	75 Ω to 110Ω	PA818-F	AES/EBU Panel, (8) FXLR to FBNC, PAD to 1 V _{P-P}
Comm Mode Reject.	> 40 dB up to 40 MHz	PA818-H	AES/EBU Panel, (8): (4) as -F, (4) as -M
Distance	Up to 2500 ft - 75 ohm coax cable	PA818-FN	AES/EBU Panel, (8) FXLR to FBNC, No PAD
Dimensions	Panels: 1 RU x 37mm deep Baluns 20.3mm dia. x 89mm long	PA818-HN	AES/EBU Panel, (8): (4) as -FN, (4) as -M
Net Weight	Panel: 0.91 kg; Balun: 0.03 kg	PA818-M	AES/EBU Panel, (8) MXLR to FBNC
		PA819	AES/EBU Rebalanced, MXLR to FXLR
		* All PA818 panels have isolated outputs standard	

© Copyright 2001-2011 Energy Transformation Systems FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA820, PA778x Series RG59 Splitter and Panels



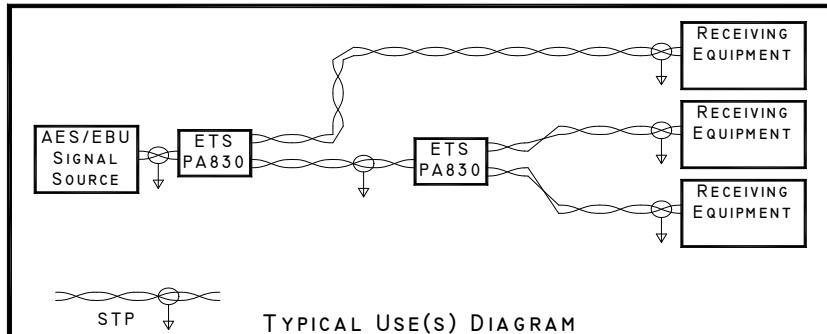
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Enables two outputs from a single source without interference or impedance-mismatching Individual splitters or rack-mountable panel versions Panel mount models available from 2 to 12 channels Can be cascaded non-symmetrically for multiple outputs Metal case and chassis Made in USA 100% tested 	<p>The ETS PA820 RG59 Splitter and the PA778x Series of AES/EBU Splitter Panels are carefully designed to divide the energy from a single source into equal parts, maintaining precise impedance-matching. Return signals are routed back to the source with minimal crosstalk to the other port.</p> <p>These devices are expressly crafted for AES/EBU standard for digital audio. They minimize losses while preserving signal integrity. As an added benefit, ETS precision impedance-matching technology enables units to be non-symmetrically applied when being cascaded. Note that each cascade stage reduces the signal level by 3 dB.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post Production Facilities Satellite TV Facilities

Specifications	Product Ordering Information	
Bandwidth	10 kHz to 50 MHz	PA820 RG59 Splitter, (1) FBNC in, (2) FBNC out
Connectors	(3) BNC female 75Ω (per chan. on panels)	
Impedance	75Ω +/- 2% 50 kHz to 30 MHz	
Insertion Loss	0.25 dB 10 kHz to 50 MHz	PA778-4 RG59 Splitter Panel, 4 channels
Note:	Splitting reduces signal level by 3 dB	PA778-8 RG59 Splitter Panel, 8 channels
Crosstalk	35 dB down 50 kHz to 30 MHz	PA778-12 RG59 Splitter Panel, 12 channels
Dimensions	Panels: 1 RU x 80mm deep Baluns: 69mm x 69mm x 33mm	X = number of channels
Net Weight	Panels: 0.64 to 1.04 kg; Splitter: 0.1 kg	

© Copyright 2001-2011 Energy Transformation Systems, Inc.
 FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA830 Series AES/EBU Digital Audio Splitters, Panels



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Devices are used for splitting AES/EBU digital audio signals Eliminates the need for a distribution amplifier in many applications Superb impedance-matching Rugged metal cases and chassis Made in USA 100% tested 	<p>The ETS PA830 Series are the Balanced Line™ Digital Audio Splitters and Digital Audio Splitter Panels. These products are expressly designed for the digital audio market. Used only for balanced 110Ω signals, these units accommodate signal levels to 10V. Since proper impedance is maintained, the splitters do not have to be symmetrically applied.</p> <p>Due to careful specification and minimal signal modification, units may be cascaded, thereby reducing transmitted signal power by 3 dB at each stage.</p> <p>Also available is the PA835 panel-mounted splitter in a 4-channel version.</p>	<ul style="list-style-type: none"> Recording Studios Post-Production Facilities Broadcast Control Rooms

Specifications	Product Ordering Information
Bandwidth	200 kHz to 10 MHz
Connectors	(3) XLR per channel
Impedance	110Ω
Insertion Loss	< 0.1 dB
Impedance Match	+/- 2%
Output to Output Isolation	40 dB
Max Signal	10 V _{P-P}
Dimensions	94mm x 51mm x 30mm (PA830, 832) PA835 : 1RU x 35mm deep
Net Weight	0.15 kg, (PA835- 0.5 kg)

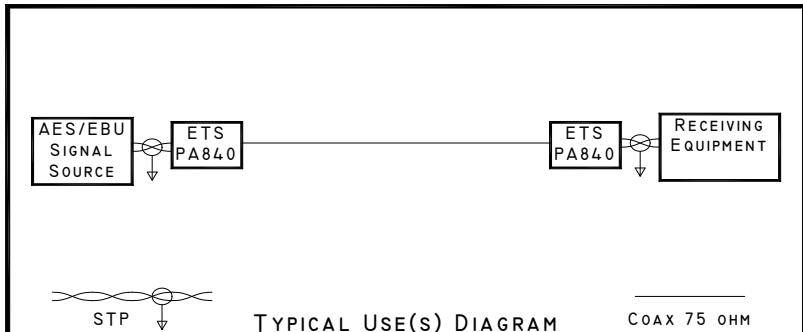
© Copyright 2006-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA840 Series

Isolated Digital Audio Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Converts AES/EBU digital audio between balanced 110Ω STP and unbalanced 75Ω BNC Separate baluns or rack-mountable panel versions Panel-mount has a monitor port for each channel Isolated signals ease routing signals via video patch bays, eliminating ground loops Compact, rugged case Made in USA 100% tested 	<p>ETS Isolated Digital Audio Baluns offer screw terminal connections. From Southeast Asia to Madison Square Garden, these AES/EBU-compliant products are hard at work converting digital audio signals from Shielded Twisted Pair (STP) cable to coax. Used for temporary setups, as well as permanently, in locations where coax is already present, and economical than pulling fresh STP – the PA840 and PA841 baluns deliver proven solutions.</p> <p>These baluns perform precise impedance-matching and signal-balancing, enabling AES/EBU signals to be sent with greater signal integrity and longer runs over coaxial cable than can be achieved with STP wiring. The signal isolation enables VDA and router applications.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post Production Facilities

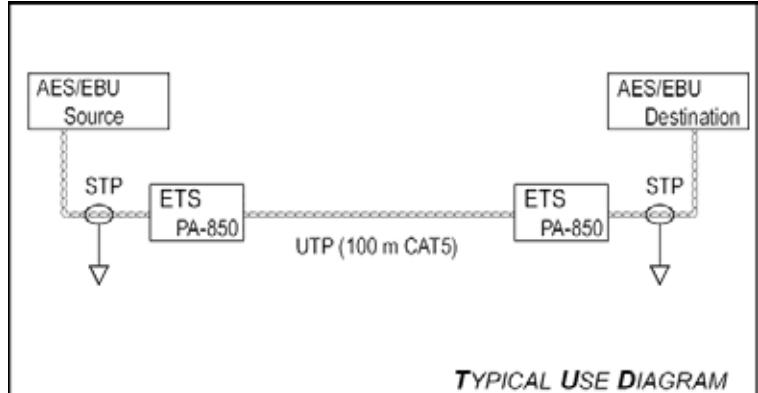
Specifications	Product Ordering Information	
Bandwidth	20 kHz to 60 MHz (1 dB)	PA840 AES/EBU Balun, Isolated, F-BNC to (3) Screw Term.
Connectors	Screw Terminals (2 or 3) to F-BNC	PA841 AES/EBU Balun, Isolated, F-BNC to (2) Screw Term.
Insertion Loss	< 0.15 dB	
Max Signal	5V _{P,P}	
Impedance Match	75Ω to 110Ω Screw Terminal	
Comm Mode Reject.	> 40 dB up to 40 MHz	
Distance	Up to 2500 ft – 75 ohm coax cable	
Dimensions	(mm) 22 x 25 x 60	
Net Weight	(kg) 0.03	

© Copyright 2001-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA850 Series Digital Audio Adaptor



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send AES/EBU digital audio over Category5 UTP cable to 100 meters Longer run distances with lower noise Less expensive materials and installation cost than coax Fully-isolated design Impedance-matched and balanced to maximize signal quality and minimize undesirable reflections 	<p>The ETS Digital Audio Adapter (PA850 Series) is impedance- matched, balanced, and isolated to provide excellent performance sending AES/EBU signals over Category 5 or better Unshielded Twisted Pair (UTP) wiring.</p> <p>Experiments with High Performance Category5 cable have shown that Digital Audio signal performance over UTP is equal to that of 110-ohm Shielded Twisted Pair wire, even at the highest bit rates.</p> <p>The ETS exclusive balun design balances and isolates the signal, eliminating unwanted jitter. The careful impedance-matching prevents reflections that can degrade signal reception and decoding.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post-Production Facilities

Specifications		Product Ordering Information	
Bandwidth	100KHz to 30MHz, ± 1 dB	PA850	Digital Audio Adapter, M-XLR to RJ45 Jack
Connectors	XLR to 8 pin Modular (RJ45)	PA851	Digital Audio Adapter, F-XLR to RJ45 Jack
Insertion Loss	0.25dB		
Max Signal	6V		
Impedance Match	110Ω to 100Ω UTP		
Comm Mode Reject.	> 50 dB		
Return Loss	20 dB, 50KHz to 30MHz		
Distance	330 ft		
Dimensions	18" Long		
Net Weight	~ 0.17 # (0.08 Kg)		

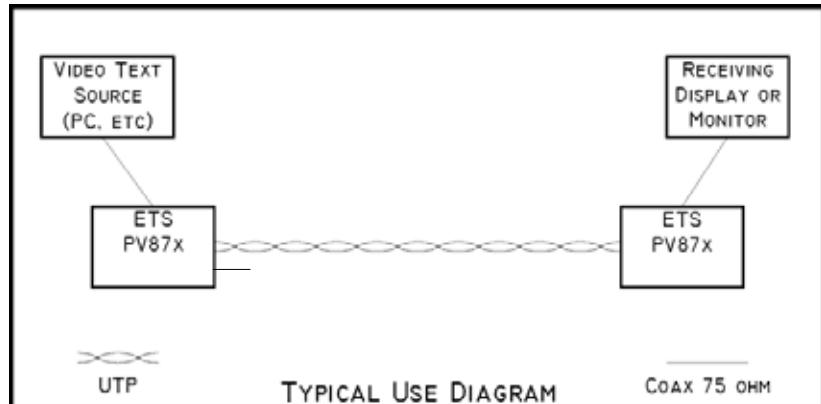
© Copyright 2001-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA870 Series

Balanced Analogue Audio Adaptor



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Full audio bandwidth Minimizes spurious signal ingress Eliminates ground loops Compact plastic case Made in USA. 100% tested 	<p>The ETS PA870 Series of Balanced Analog Audio Adapters is ideal for use in applications requiring audio signals to be sent over distances greater than 4 meters. Signals may be sent in either direction. By balancing the audio signal as well as isolating it, signals can be easily sent over 100 meters distance.</p> <p>The PA872 Stereo Balanced Audio Adapter and the PA874 Dual Balanced Stereo Audio Adapter enable sending 2 or 4 audio signals down a single run of UTP (utilizing 2 or 4 pairs) without having to use a "hydra" assembly. Additionally, the PA874 allows sending bi-directional stereo audio over a single UTP run.</p>	<ul style="list-style-type: none"> Home Theater Systems Meeting Halls Churches Schools Classrooms Auditoriums

***NOTE – DO NOT DRIVE SPEAKERS USING THESE PRODUCTS.** Use only with line-level, unamplified signals (source to pre-amp or amplifier) to be transmitted over distances exceeding approximately 4 meters.

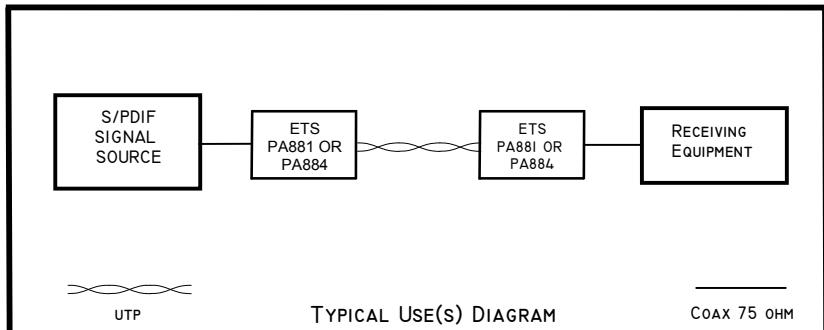
Specifications		Product Ordering Information	
Bandwidth	10 Hz to 20 kHz	PA871	Balanced Analog Audio, screw term. to RJ45, pins 5, 4
Connectors	Screw Terminals to RJ45	PA872	Balanced Analog Audio, Stereo, Screw terminal to RJ45
Impedance	600:600	PA874	Balanced Analog Audio, Dual Stereo, Screw terminal to RJ45
Isolation	500V	PA875	Balanced Analog Audio, 6.00" pigtail MXLR to RJ45, pins 5,4
Signal Level	1.0 V (nominal)	PA876	Balanced Analog Audio, 6.00" pigtail FXLR to RJ45, pins 5,4
Distance	1000 ft.		
Dimensions	46mm x 25mm x 19mm (PA871) 66mm x 66mm x 28mm (PA872, PA874)		
Net Weight	0.03 kg for PA871, 0.08 kg for PA872, 0.11 kg For PA874		

© Copyright 2004-2011 Energy Transformation Systems, Inc

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA881, PA884 & PA885 S/PDIF Digital Audio Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Converts S/PDIF digital audio between balanced 100 ohm UTP and unbalanced 75 ohm BNC Isolated signals ease routing signals via video patch bays, eliminating ground loops Compact, rugged case Made in USA 100% tested 	<p>The ETS S/PDIF-compliant products convert digital audio signals from Unshielded Twisted Pair (UTP) cable to coax. Used for temporary setups, as well as in permanent locations where coax is already in place, it's less costly than pulling fresh UTP. The PA881 and PA884 baluns provide viable and dependable solutions.</p> <p>These baluns perform precise impedance-matching and signal balancing, enabling S/PDIF signals to be transmitted with greater signal integrity and longer runs over coaxial cable than can be achieved with UTP wiring.</p> <p>Note: Consumers with digital equipment in the home such as CD players, DVD players, receivers, etc. with digital inputs/outputs should use PA881. PA884 is designed for professional applications.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post-Production Facilities Healthcare Facilities Theaters Special Performance Venues

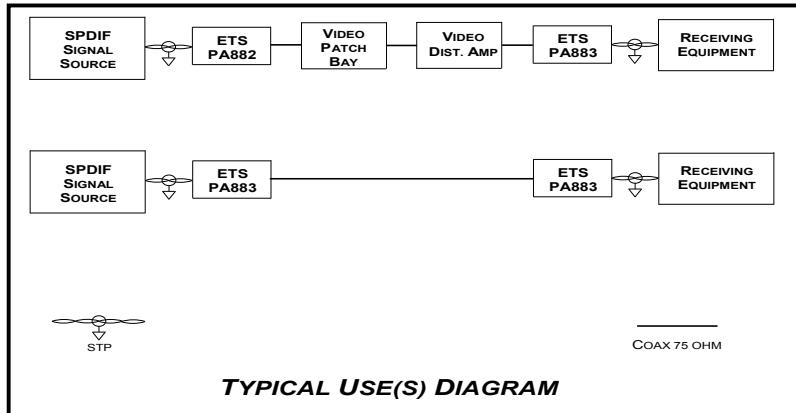
Specifications		Product Ordering Information	
Bandwidth	20 kHz to 60 MHz (1dB)	PA881	SPDIF Balun, RCA jack to RJ45 jack, pins 5, 4
Connectors	FBNC or RCA jack to RJ45 jack	PA881S	SPDIF Balun, RCA plug to screw terminal
Insertion Loss	< 0.15 dB	PA884	SPDIF Balun, FBNC to RJ45 jack, pins 5,4
Minimum Signal	0.50 V	PA885	SPDIF Balun, RCA plug to RJ45, pins 1, 2
Impedance Match	75 ohm to 100 ohm		
Comm Mode Reject.	> 40 dB up to 40 MHz		
Distance	330 ft – UTP; Up to 2500ft 75 ohm coax		
Dimensions	46mm x 25 mm x 19mm		
Net Weight	0.03 kg		

© Copyright 1999-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PA882, PA883, PA886 Series SPDIF Digital Audio Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Converts SPDIF digital audio between balanced 110Ω XLR and unbalanced 75Ω BNC Durable metal cases Made in USA 100% tested 	<p>ETS, long a leader in baluns for computer networks, applies that expertise in Balanced Line™ technology to the XLR to BNC Digital Audio Baluns (DAB) and DAB Panels.</p> <p>The PA882, PA883 and PA886 baluns from ETS are designed to connect SPDIF signals from XLR output equipment into standard 75Ω coax cabling systems.</p> <p>These baluns perform precise impedance-matching and signal balancing; allowing SPDIF signals to be transmitted with greater signal integrity and longer runs over coaxial cable than can be achieved with STP wiring.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post Production Facilities Satellite TV Facilities

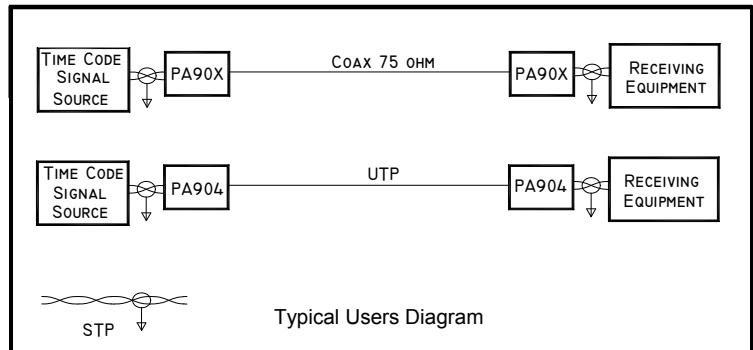
Specifications		Product Ordering Information	
Bandwidth	20 kHz to 60 MHz (1 dB)	PA882	SPDIF Balun, RCA jack to M-XLR w/20dB attenuation
Connectors	RCA jack to XLR	PA883	SPDIF Balun, RCA jack to F-XLR
Insertion Loss	< 0.15 dB	PA886	SPDIF Balun, RCA jack to M-XLR
Minimum Signal	0.5 V		
Impedance Match	75Ω to 110 Ω		
Common Mode Rejection	> 40 dB up to 40 MHz		
Distance	UTP – 330 ft, up to 2500 ft – 75 ohm coax		
Dimensions	20.3mm diameter x 89mm long		
Net Weight	0.03 kg		

© Copyright 1999-2011 Energy Transformation Systems

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA900 Series Digital Audio (Time Code) Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Converts Time Code digital audio between balanced 110Ω XLR to balanced 100Ω UTP, or between balanced 110Ω balanced to unbalanced 75Ω BNC Rugged compact cases Made in USA 100% tested 	<p>ETS, long a leader in baluns for computer networks, applies that expertise in Balanced Line™ technology to the XLR to UTP Digital Audio Baluns (DAB) and DAB Panels.</p> <p>The PA900 series of baluns from ETS is designed to connect Time Code signals from XLR output equipment to standard 75Ω coax or 100Ω UTP cabling systems. The baluns perform precise impedance-matching and signal balancing, enabling Time Code signals to be transmitted with greater signal integrity and longer runs over coaxial or UTP cable than can be achieved with conventional STP wiring.</p>	<ul style="list-style-type: none"> Broadcast Control Rooms Recording Studios Post-Production Facilities Satellite TV Installations

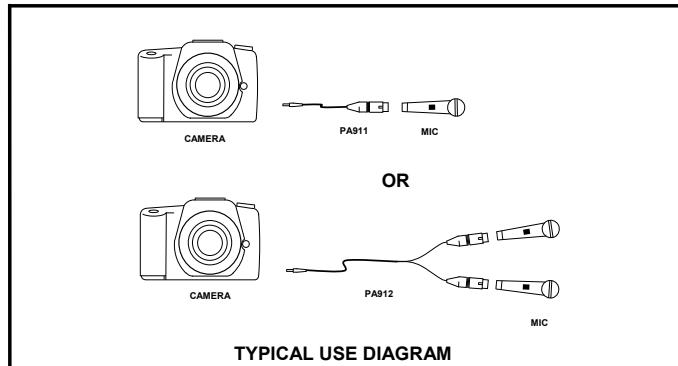
Specifications		Product Ordering Information	
Bandwidth	20 KHz to 60 MHz (1dB)	PA900	Time Code, 75Ω F-BNC to M-XLR
Connectors	XLR to RJ45 jack XLR to male or female BNC	PA901	Time Code, 75Ω F-BNC to F-XLR
Insertion Loss	< 0.15dB	PA902	Time Code, M-BNC to M-XLR
Impedance Match	110Ω to 100Ω (PA904 & PA905) 110Ω to 75Ω (PA900, PA901, PA902 & PA903)	PA903	Time Code, M-BNC to F-XLR
Comm Mode Reject.	> 40dB	PA904	Time Code, RJ45 jack pin 5,4 to 1.00 ft M-XLR
Distance	Up to 2500 ft with coax cable	PA905	Time Code, RJ45 jack pin 5,4 to 1.00 ft F-XLR
Distance	330 ft for PA904 & PA905		
Dimensions	425mm x 25mm x 19mm (PA904 & PA905) 20.3mm dia. x 89mm long (PA900, PA901, PA902 & PA903)		
Net Weight	0.07 Kg (PA904 & PA905) 0.03 Kg (PA900, PA901, PA902 & PA903)		

© Copyright 2004-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/11

PA910 Series DSLR Audio Camera Baluns™



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Passive device (no added power required) Small form factor Durable, rugged shell Light weight Compatible with a wide variety of pro-grade microphones Low cost Made in USA 100% tested 	<p>Long a leader in computer network baluns, ETS now applies that expertise in Balanced Line™ technology to the new DSLR Audio Camera Balun™ linking a female XLR connector to a 3.5mm mini-plug for input to the camera's audio port.</p> <p>The PA910 Series of DSLR Audio Camera Baluns™ from ETS is designed to connect the DSLR camera's internal audio to professional-grade microphones or other signal sources.</p> <p>The compact, passive device preserves balanced lines, enabling full noise reduction for runs up to 2000 feet of microphone cable!</p> <p>NOTE: The PA910 Series of DSLR Audio Camera Baluns™ are not designed with phantom power, but easily work with condenser microphones equipped with separate power supplies (or batteries).</p>	<ul style="list-style-type: none"> Connects professional-grade microphones to the DSLR camera's existing 3.5mm mini jack. Maximizes DSLR camera's on-board audio performance Recording of events such as parties, concerts and spontaneous events

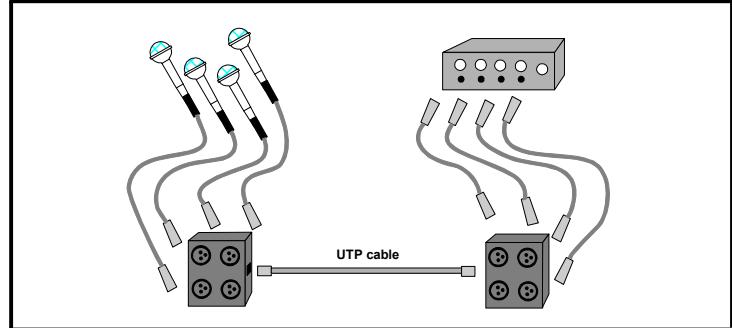
Specifications		Product Ordering Information
Bandwidth	10 Hz to 20 KHz	PA911 Mono DSLR Audio Camera Balun, 3.5mm mini plug 18.00" long to FXLR
Connectors	3.5mm mini plug to FXLR	PA912 Two Channel DSLR Audio Camera Balun, 3.5mm mini plug 18.00" long to (2) FXLR
Impedance	600 ohm (3.5mm mini plug) 100 ohm (XLR)	
Common Mode Rejection	60dB min. @ 1KHz (per channel) 40dB min. over the frequency range	
Dimensions	22mm dia. X 533mm (including pigtail)	
Net Weight	0.06 Kg – PA911; 0.11 Kg – PA912	

© Copyright 2013 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 9/26/2013

InstaSnake PA200™ Series Audio over a single run of Cat 5/5e/6/6a cables



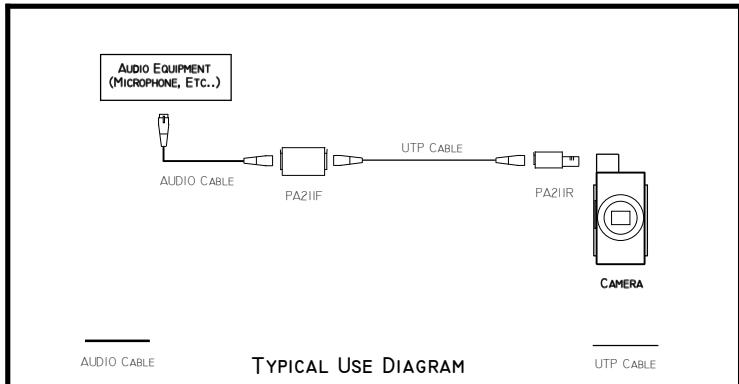
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Easily transported Low cost No ground loops when unshielded Cat5 cable is used on PA202 Add second unit to increase the number of channels May be used for analog or digital audio – mic or Line Level Supports 48V phantom power when Shielded Cat5 cable is used Rugged, 'road-ready' construction RoHS compliant USA Made - 100% tested 	<p>The ETS InstaSnake™ Series (PA200) is a compact, lightweight, versatile passive group of components allowing you to run audio signals over a single run of Cat 5, 5e, 6 or 6a data cables. With a roll of cable, these compact units are easily transported and/or stored solving dozens of live and/or recording sound problems.</p> <p>The InstaSnake™ is a passive unit, so you do not need power. The InstaSnake™ accepts "mic" level or line level analog or digital audio and supports phantom power when using shielded Cat 5 or 6 cables. The basic units are a pair of passive units with bi-directional capability which can be input directly into analog or digital consoles.</p> <p>Designed to the highest professional standards the InstaSnake™ has a wide, flat frequency response, low THD and residual noise. The InstaSnake™ has been factory tested to 1900 feet over Cat 5 using balanced line low impedance dynamic microphones. Phantom power has been tested to 850 feet over <u>shielded cable.</u> (<u>Phantom Power – Shielded Cat 5 or 6 cables are required to pass phantom power with the exception of the PA205, which does not require shielding.</u>)</p> <p>The InstaSnake™ Splitter (PA206) splits the signals at the receive end and sends them to a recorder or mixer. [“analog only” It cannot be used for digital]. A second Cat 5 cable connects the second receiving unit – it handles phantom power. 4 additional standard mic cables are required.</p> <p>The InstaSnake™ is available in 2 basic send/receive units which can be mounted in a 2 RU 19" rack, plus units with pigtailed, and wall plate versions. With (4) 1.5 ft. pigtailed lets you access any mixer without the need for an additional 4 microphone cables.</p>	<ul style="list-style-type: none"> Live Sound Recording Studios TV & Radio Broadcasts Production/Post Production Houses Foley/ADR Studios Hotels Convention Centers Churches Cruise Ships Auditoriums/Stadiums Home Studios Remote & News Trucks Field Recording <p>Note: The PA202 group when used with shielded Cat5 or better UTP is Clear Com products compatible.</p>

Specifications		Product Ordering Information	
Crosstalk @ 20KHz	<ul style="list-style-type: none"> -109dB between Ch1 and Ch2 -102dB between Ch1 and Ch3 -106dB between Ch1 and Ch4 -106dB between Ch2 and Ch3 -106dB between Ch2 and Ch4 -109dB between Ch3 and Ch4 	PA202x	(4) FXLR or MXLR to RJ45 jack, all pins
Distance	UTP – 1900 ft	PA202P	(4) MXLR 1.50' pigtail to RJ45 jack, all pins
	FTP or STP - 850 ft – phantom power only	PA202FP	(4) FXLR 1.50' pigtail to RJ45 jack, all pins
Connectors	Female or Male XLR to Ethercon RJ45 jack or 110 punchdown (wall plate)	PA202xWP	Receive (4) FXLR or (4) MXLR to 110 punch down, brushed steel plate
Dimensions	69mm x 62mm (+pigtail) x 36 -PA202P/PA203P	PA203x	(3) FXLR or MXLR + (1) MXLR or FXLR to RJ45 jack, all pins
L x W x H	107mm x 70mm x 45mm	PA203P	(3) MXLR + (1) FXLR 1.50' pigtail to RJ45 jack, all pins
	117mm x 115mm x 37mm (wall plate)	PA203FP	(3) FXLR + (1) MXLR 1.50' pigtail to RJ45 jack, all pins
		PA204x	(2) FXLR + (2) MXLR or (2) MXLR + (2) FXLR to RJ45 jack, all pins
		PA204P	(2) MXLR + (2) FXLR 1.50' pigtail to RJ45, all pins
		PA204FP	(2) FXLR+ (2) MXLR 1.50' pigtail to RJ45 jack, all pins
		PA205x	(3) FXLR or MXLR to RJ45 jack, all pins
		PA206	Splitter – (4) MXLR to (2) RJ45 jacks, all pins
		Note:	x = M (Male) or F (Female)
		Note:	Accessories are available - couplers, cables and 2u, 19" rack mount panels & blank plates

© Copyright 2005-2014 Energy Transformation Systems, Inc.
FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 7/28/14

InstaSnake PA210 Series Audio Adapter for CINESNAKE™



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Lightweight Easily transported Low cost Slide switch on Send unit Can be used for analog or digital audio Supports 48V phantom power Rugged, 'road-ready' construction RoHS compliant USA Made 100% tested 	<p>The ETS CINESNAKE™ Series PA210 is a compact, lightweight, versatile passive group of components allowing you to run audio signals over a single run of CAT5 or better cables. With a roll of wire, these compact units are easily transported and/or stored solving dozens of live and/or recording sound problems.</p> <p>The CINESNAKE™ is a passive unit, so you do not need power. The CINESNAKE™ accepts 'mic' level, line level, analog or digital audio and supports phantom power when the slide switch is "ON" position.</p> <p>One cable carries both audio signals simplifying the user or installer's job. Ordinary UTP cabling may be used, however distance and quality are enhanced with cat5 or better cable.</p> <p>Note: The CineSnake fits the following cameras: Canon – C100, C300, C500, XA-10, XA-20, XA-25, XA-100, XA105 Sony - Sony XF5-300, XF305 Panasonic - AG HPX 250P</p>	<ul style="list-style-type: none"> Useful for field (ENG) recording Recording events such as parties, concerts and spontaneous events Portable and convenient for 'on-the-go' recording Live sound

Specifications		Product Ordering Information
Crosstalk @ 20KHz	-109 dB between Ch1 and Ch2	PA211 Set of (1) PA212 + (1) 7 ft Cat5e cable
Connectors	Female XLR with slide switch to EtherCon RJ45 Jack (PA211FT) Male XLR to EtherCon RJ45 Jack (PA211R)	PA212 (2) channels, (2) FXLR + slide switch to EtherCon RJ45 jack
Media	Cat5 or better	PA213 (2) channels, (2) MXLR to EtherCon RJ45 jack
Dimensions L x W x H	73mm x 52mm x 36mm (PA211FT) 60mm x 71mm (+ connector) x 36mm (PA211R)	
Weight	0.1 Kg (PA211FT) 0.15 Kg (PA211R)	

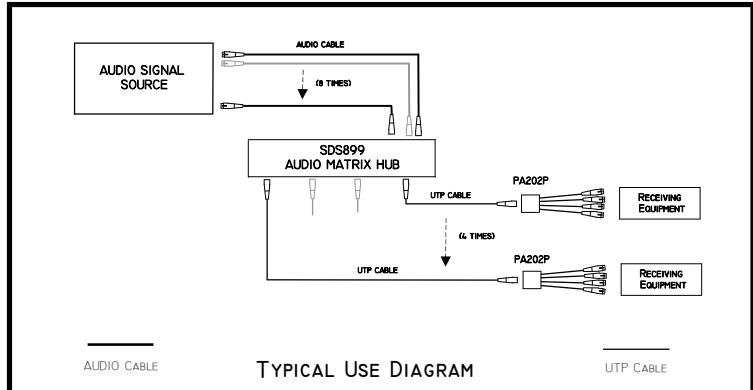
© Copyright 2013 - 2014 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™, Precision Wave™ and CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners

2/27/2014

SDS Audio Matrix Hub

8-port Audio Matrix Switch: (8) FXLR to (4) Ethercon RJ45 jacks with 16 slide switches



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Device can be used for both digital and analog audio signals. Individual slide switch to select the 8 input signals for a pair on UTP cable. Passive unit: no power source required for operation. Supports phantom power. Connectors are high-quality Neutrik™ brand. Easily rack-mounts in a standard 19" 2U rack space. Rugged metal chassis. 100% Made in USA. 100% tested. 	<p>The SDS899 is a rugged rack-mount "(8) AUDIO INPUT – (4) AUDIO OUTPUT" Audio Matrix Hub suitable for both analog and digital audio applications.</p> <p>The 100% passive (for superior reliability) unit features a total of 16 slide switches, each pair of which controls an audio input on the UTP cable.</p> <p>The SDS899 is used in conjunction with the ETS InstaSnake™ PA202P and the SDS898 Splitter Panel, which is a "1-in and 12-out" design.</p> <p>The unit is compatible with the use of Cat5 cable in runs up to 1,000 feet in length, offering both lighter weight and lower costs.</p> <p>For Clear-Com™ users, the SDS899 offers total compatibility.</p>	<ul style="list-style-type: none"> Seasonal/regional theaters Broadcast control rooms Mobile audio studios On-site concert recordings Legitimate (Broadway) theater Touring troupes Worship centers Educational facilities Healthcare institutions

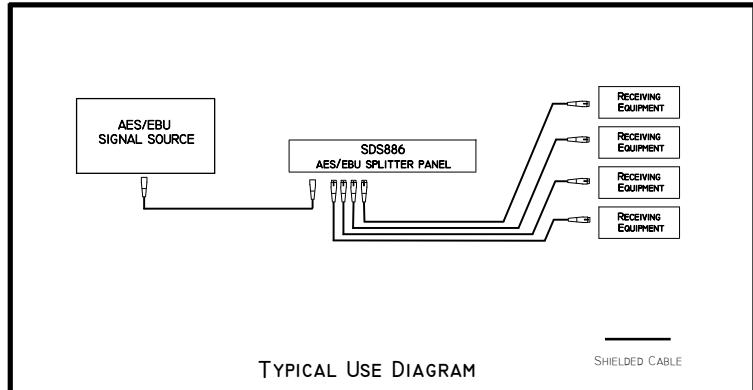
Specifications		Product Ordering Information	
Audio Inputs	8 Balanced Audio Inputs on 8 female XLR connectors	SDS899	8-port Audio Matrix Switch: (8) FXLR to (4) Ethercon RJ45 jacks with 16 slide switches
Impedance	110 ohm		
Audio Outputs	Balanced Audio Outputs on 4 Ethercon RJ45 jacks		
Impedance	100 ohm		
Control	16 Slide Switches		
Media	Cat5e or better		
Distance	Up to 1000 ft.		
Dimension	2 RU x 128mm deep		
Net Weight	2.50 Kg		

© Copyright 2011- 2013 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 05/22/2013

SDS Audio System

AES/EBU Splitter Panel, 2 channel 1-in 4-out, 1 RU



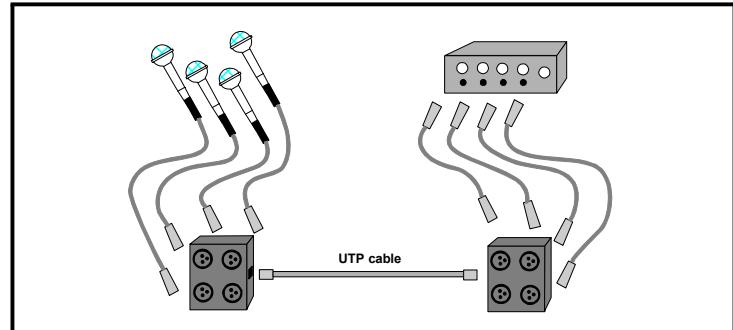
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Device is to be used for splitting AES/EBU digital audio signals Eliminates the need for a distribution amplifier in many applications Offers superb impedance matching Passive unit: Requires no power source for operation All connectors are high-quality Neutrik™ brand Easily rack-mounts in a 19" 1U rack space Rugged powder-coated metal chassis Made in USA 100% tested 	<p>The ETS SDS886 is a 2-Channel "(1) IN – (4) OUT" Digital Audio Splitter Panel. This rack-mounted product has been designed and manufactured expressly for the digital audio market.</p> <p>Note: this device is intended only for balanced 110-ohm signals.</p> <p>The passive [and thus highly reliable] unit accommodates signal levels up to 10V. In addition, the versatile SDS886 maintains proper impedance so the remarkably innovative digital audio splitter need not be symmetrically applied.</p> <p>In many applications, the SDS886 completely eliminates the need for a distribution amplifier, not only significantly lowering costs, but reducing overall system complexity, as well.</p>	<ul style="list-style-type: none"> Recording Studios Network Cable and Broadcast Control Rooms Mobile audio recording studios On-site concert recording Legitimate "Broadway" Theater Seasonal performing venues Worship centers Educational facilities Healthcare institutions

Specifications		Product Ordering Information	
Bandwidth	200 KHz to 10 MHz	SDS886	AES/EBU Splitter Panel, 2 channel 1in 4out, 1 RU

© Copyright 2011- 2013 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 04/03/2013

SDS900 Series InstaSnake Audio Products - Adaptors



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Easily transported Low cost No ground loops Add second unit to increase the number of channels May be used for analog or digital audio Supports 48V phantom power Rugged, 'road-ready' construction RoHS compliant USA Made 100% tested 	<p>The ETS InstaSnake™ Series (SDS900 Series) is a compact, lightweight, versatile passive group of components allowing you to run audio signals over a single run of CAT5, 5E or 6 cables. With a roll of wire, these compact units are easily transported and/or stored solving dozens of live and/or recording sound problems.</p> <p>The InstaSnake™ is a passive unit, so you do not need power. The InstaSnake™ accepts 'mic' level, line level, analog or digital audio and supports phantom power when using shielded Cat5 or Cat6 cables.</p> <p>The basic units are a pair of passive units with bi-directional capability which can be input directly into analog or digital consoles. Designed to the highest professional standards the InstaSnake™ has a wide, flat frequency response, low THD and residual noise. The InstaSnake™ has been factory tested to 1900 feet over CAT5 using low Z dynamic microphones. Phantom power has been tested to 850 feet over <u>shielded*</u> cable. (*Phantom Power – <u>Shielded Cat5 or 6 cables are required to pass phantom power.</u>)</p> <p>The SDS901 and SDS902 with (4) 3.00 foot pigtailed lets you access the mixer without the need for additional 4 microphone cables.</p>	<ul style="list-style-type: none"> Live Sound Recording Studios TV & Radio Broadcasts Production/Post Production Houses Foley/ADR Studios Hotels Convention Centers Churches Cruise Ships Auditoriums/Stadiums Home Studios Remote & News Trucks Field Recording

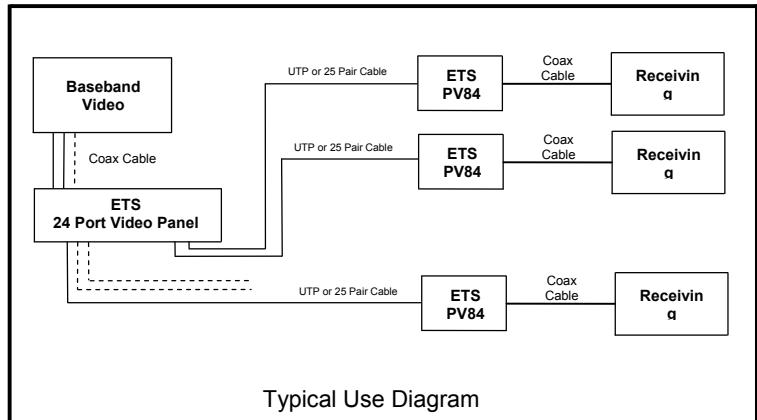
Specifications		Product Ordering Information
Crosstalk @ 20KHz	-109 dB between Ch1 and Ch2 -103 dB between Ch1 and Ch3 -106 dB between Ch1 and Ch4 -106 dB between Ch2 and Ch3 -106 dB between Ch2 and Ch4 -109 dB between Ch3 and Ch4	SDS901 SDS902
Distance	UTP – 1900 ft.	
Connectors	FTP or STP 850 ft – Phantom power only	
Dimensions	Female or Male XLR 3.00' pigtail to Ethercon RJ45 jack	
Weight	69mm x 62mm (+ pigtail) x 36mm (L x W x H)	
	0.60 Kg	

© Copyright 2005-2014 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 7/21/14

PV620 Series Baseband Video Panels



Typical Use Diagram

Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Use UTP for long distance signal transmission with superior performance and easy, low cost installation Greater stability with wider bandwidth (0 to 60 MHz) Made in USA 100% tested 	<p>The ETS Baseband Video Baluns have now been expanded to a panel version, the 24-port Baseband Video Panel. As with the PV840 Extended Baseband Video Baluns, the panel version also allows you the freedom to use UTP or 25-pair cable instead of costly coax to transmit baseband video signals throughout a facility, with better signal characteristics, at a lower cost. Depending upon your application, you may be able to utilize previously installed wiring, with a corresponding dramatic reduction in installation costs.</p> <p>24-port video panels are available with FBNC connectors to RJ45 jacks or to a 50-pin Telco. You can transmit baseband signals on a Cat5 or better UTP or 25-pair cable.</p> <p>As with the ETS Extended Baseband baluns, color at distances in excess of 330 meters is supported, depending on the cable type. Black and white signals will typically be supported up to 750 meters.</p>	<ul style="list-style-type: none"> ALL Baseband Video Applications Security and Surveillance Video Terminals

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV620	24 port baseband video panel, FBNC to 50 pin telco (1 to 24)
Connectors	FBNC to RJ45 jack or to 50 pin Telco	PV621	24 port baseband video panel, FBNC to 50 pin telco (25 to 48)
Crosstalk	> 50dB	PV622	24 port baseband video panel, FBNC to 50 pin telco (49 to 72)
Media	Category 5 UTP or 25 pair cable	PV623	24 port baseband video panel, FBNC to 50 pin telco (73 to 96)
Dimensions (HLW)	1 RU x 115 mm DEEP	PV624	24 port baseband video panel, FBNC to RJ45 Pins 5&4
Distance	1200 ft – Color; 2500 ft – B/W		
Net Weight	1.05 Kg		

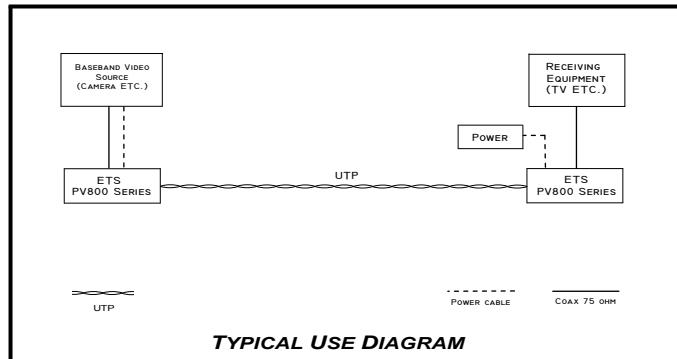
© Copyright 2005-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV800 Series

Extended Baseband Video Baluns with Power to the Camera



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Passive balun with low voltage power and video over Cat5 (UTP) cable Use UTP cable instead of costly coax Greater stability with wider bandwidth (0 to 60 MHz) Save time and money for CCTV camera installations when using UTP cable Unit can be used with 12 V, 24V, and 48V devices Rugged plastic cases Made in USA, 100% tested 	<p>The ETS Extended Baseband Video Balun has the added feature of power sent through UTP cables rather than using costly coax cable for low voltage. The Extended Baseband Video Baluns with Power to the Camera (PV800 Series) combines video and power into a single UTP cable where the video signals are transported up to 1500 ft for black and white and 1000 ft for color.*</p> <p>Two pairs of the 3 unused pairs in the existing cable are used for power, leaving 1 unused pair to provide adequate handling of current over the distances of the cable.</p> <p>* NOTE: The maximum distance for power will vary, depending on the requirements of the power devices being used, as there is some voltage drop over the distance of the cable – up to 300 feet with 12 VDC at current less than 500 mA</p>	<ul style="list-style-type: none"> All Baseband Video Applications Security and Surveillance Video Terminals, Displays Access Points
Specifications		Product Ordering Information
<p>Bandwidth Flat to 60 MHz</p> <p>Connectors BNC (female or male) + 1 ft power cable to RJ45</p> <p>Crosstalk >50dB</p> <p>Media Category 5 or better</p> <p>Distance @24 Vac (24 AWG Cat5 5VA – 519 ft; 10VA – 258 ft; 20VA – 130 ft</p> <p>Dimensions 59mm x 23mm x 18mm</p> <p>Net Weight 0.02 kg</p>		<p>PV801 EBVB + POWER, FBNC + 1.00 ft cable to RJ45 jack pins 5&4 (video), pins 3,6,7 & 8 (power)</p> <p>PV802 EBVB + POWER, MBNC + 1.00 ft cable to RJ45 jack pins 5&4 (video), pins 3,6,7 & 8 (power)</p>

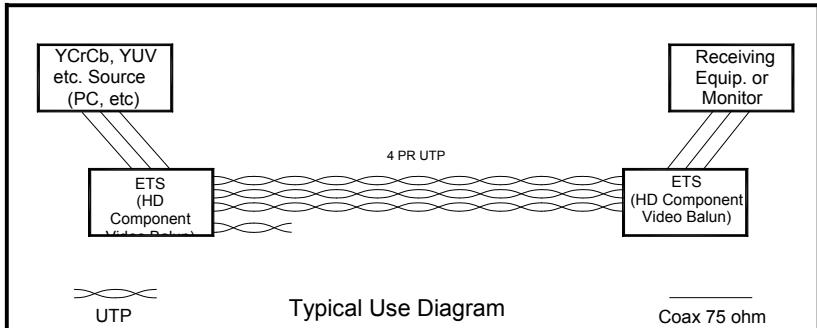
© Copyright 2007-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/2/2011

PV820 Series

High Definition Component Video Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Send High-Definition Component Video signals on UTP at distances of up to 500 FT Increased pixel resolution with a bandwidth of 270 MHz Passive unit: no power required RCA jacks for home theaters BNC connectors for professional use Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting May utilize existing telecom wiring Sturdy compact plastic case Made in USA 100% tested 	<p>The ETS PV820 Series of High Definition Component Video Baluns are designed for ease of use and consistent signal labeling in applications utilizing component video signals.</p> <p>Component video formats include RGB, YUV, YIQ and YCrCb. The PV820/PV821 baluns are functionally identical to the PV920 Series with the exception that the PV820 Series has greater bandwidth, yielding higher pixel resolution.</p> <p>YCrCb component video is a recent addition to consumer equipment found on some DVD players, high-end televisions, and home theater equipment. Professional uses include cameras and DVRs based upon any of the above standards.</p> <p>High-Definition Component Video PV820/PV821 for high-end home and professional theaters will transmit signals from 480p to 1080p resolution video.</p>	<ul style="list-style-type: none"> DVD / Home Theater Broadcast Studios Conference Rooms Cruise Ships Hotels Production and Post-Production Facilities Schools Video Projection Systems

Specifications		Product Ordering Information	
Bandwidth	Flat to 270 MHz, each channel	PV820	HDCVB, (3) FBNC to RJ45 jack, pins 1,2,3,6 & 7,8
Common Mode Rejection	>50dB	PV821	HDCVB, (3) RCA jack to RJ45 jack, pins 1,2,3,6 & 7,8
Connectors	FBNC's or RCA jacks to RJ45 jack	PV825	HDCVB + Composite Video (4) RCA jacks to RJ45, all pins
Distance	Up to 500 ft.	PV826	HDCVB+ IR, (3)RCA jack+ (1) 3.5mm jack to RJ45
Emission	Meets FCC Class A	RGBJ3	Set of 3 Coax RG59U jumper cables, 12" each
Media	Category 5 or better recommended		
Dimensions	66mm x 83mm x 28mm (PV820) 66mm x 68mm x 28mm (PV821 & PV825)		
Net Weight	0.09 kg	<u>Note:</u> Y (pins 7,8), Cr (pins 3,6) and Cb (pins 1,2)	

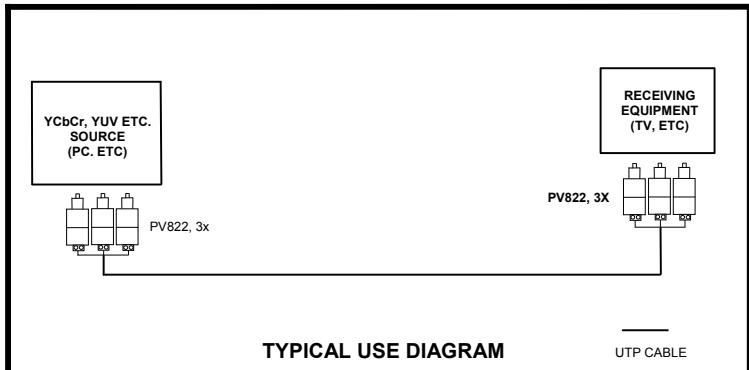
© Copyright 2006-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PV822 Series

HD Component Video Baluns, RCA plug to screwless terminals



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Small form factor Enables connecting a CAT5 cable directly to the TV, eliminating costly coax cables Superior signal balancing, lower crosstalk, less ingress and ghosting Lightweight, extended-frequency units handle high-definition signals from 480p to 1080p, up to 152m (500 feet) Easy installation with tool-less, push connectors Meets FCC Class A Sturdy compact plastic case Made in USA 100% tested 	<p>The ETS PV822 High Definition Component Video Baluns are designed for ease of use and consistent signal labeling in applications utilizing component video signals. Each ultra-compact, passive, analog unit is fitted with a male RCA plug on one end with a tool-less strip and push two-wire connector on the other end. Three PV822 units are used on each end of a CAT5 or CAT6 cable for Y, Cb and Cr video signals.</p> <p>YCbCr component video is a recent addition to consumer equipment found on some DVD players, high-end televisions, and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards. PV822 units, together with balanced CAT5 or CAT6 cable, will eliminate interference and ground loops that often cause video "hum bars" and frequently defeat coax solutions.</p> <p>Since only 3 of the 4 pairs of wires are used with the CAT5 or CAT6 cable, the remaining pair can be used with ETS Digital Audio Baluns (PA881) which have an RCA jack to an RJ45 jack and uses pins 5, 4. With this setup, the application is fully transparent.</p>	<ul style="list-style-type: none"> Home Theaters Retail Video Promotions Sports Bars Casinos Sports Arenas Healthcare Facilities Educational Institutions

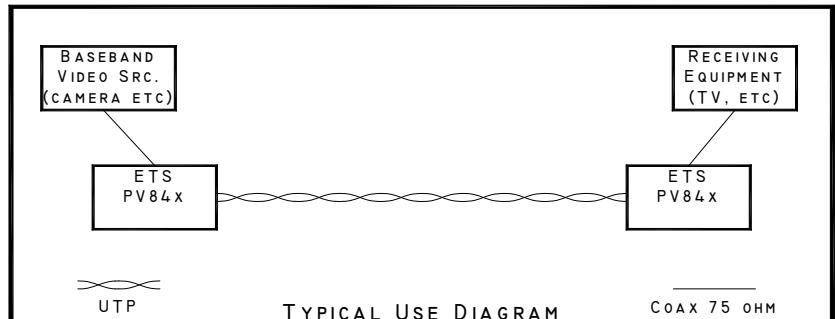
Specifications		Product Ordering Information
Bandwidth	Flat to 270 MHz	PV822 HDCVB, RCA plug to screwless terminals
Crosstalk	>50dB	
Return Loss	>15dB over the frequency range	
Connectors	RCA plug to screwless terminals	
Media	Category 5 or better	
	Category 5 or better recommended	
Distance	500 ft	
Dimensions	75mm x 25mm x 19mm	
Net Weight	0.017kg	

© Copyright 2007-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PA840 Series

Extended Baseband Video Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Uses UTP for long-distance signal transmission with superior performance and easy, low-cost installation Greater stability with wider bandwidth (0 to 60 MHz) Rugged plastic cases Made in USA 100% tested 	<p>The ETS PV840 Extended Baseband Video Baluns grant you the freedom to use UTP instead of costly coax to transmit baseband video signals throughout your facility, with better signal characteristics, and at a lower cost. Depending upon the application, it may be possible to utilize previously installed wiring with a corresponding dramatic reduction in the costs of installation.</p> <p>Single, Dual, and Quad baseband video baluns are available. Using the PV845 Quad Balun, you can transmit four distinct baseband video signals on a single run of Cat5 or better UTP, utilizing all four pairs in the cable. Since each pair has a carefully balanced signal on it, you can actually run video in two directions on different pairs simultaneously.</p> <p>The PV840 Series of baluns supports color video at distances in excess of 330 meters (, depending upon cable type. Black and white signals will typically be supported up to 750 meters.</p>	<ul style="list-style-type: none"> ALL Baseband Video Applications Security and Surveillance Video Terminals, Displays Institutional Systems Corporate Facilities

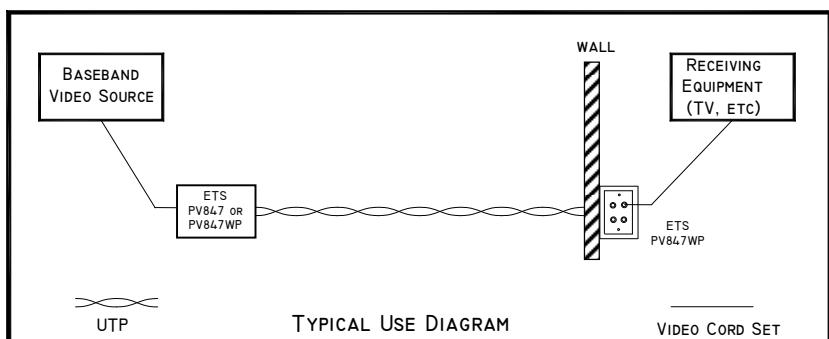
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV843	EBV Balun MBNC to RJ45 jack, pins 7, 8
Connectors	BNC (female or male) or RCA jack to RJ45 jack	PV844	EBV Balun RCA jack to RJ45 jack, pins 4, 5
Crosstalk	>50dB	PV844B	EBV Balun RCA jack to RJ45 jack, pins 5, 4
Media	Category 5 or better	PV845	Quad Baseband Video Balun FBNC to RJ45, all pins
Distance	1200 ft – color; 2500 ft – B/W	PV846	Dual Baseband Video Balun, FBNC to RJ45 5,4 & 7, 8
Dimensions	46mm x 25mm x 19mm	PV847	Quad Baseband Video Balun, RCA jacks to RJ45, all pins
	66mm x 66mm x 28mm (PV845, 846, 847)	PV848	EBV Balun, MBNC to RJ45 jack pins 5, 4
Net Weight	0.02 kg (0.1 kg PV845)	PV849	EBV Balun, FBNC to RJ45 jack, pins 5, 4
		PV848SL	EBV Balun, MBNC to Screwless Clamp Terminal Block
		PV848S	EBV Balun, MBNC to Screw Terminal
		PV849SL	EBV Balun, FBNC to Screwless Clamp Terminal Block
		PV849S	EBV Balun, FBNC to Screw Terminal
		PV845S	Quad Video/EBVB, FBNC to Screw Term, all pairs used
		PV842SL	F Connector to Screwless Clamp Terminal Block

© Copyright 2007-2012 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

03/21/2013

PV840WP Series

Quad Baseband Video (4) RCA jack to 110 punch down



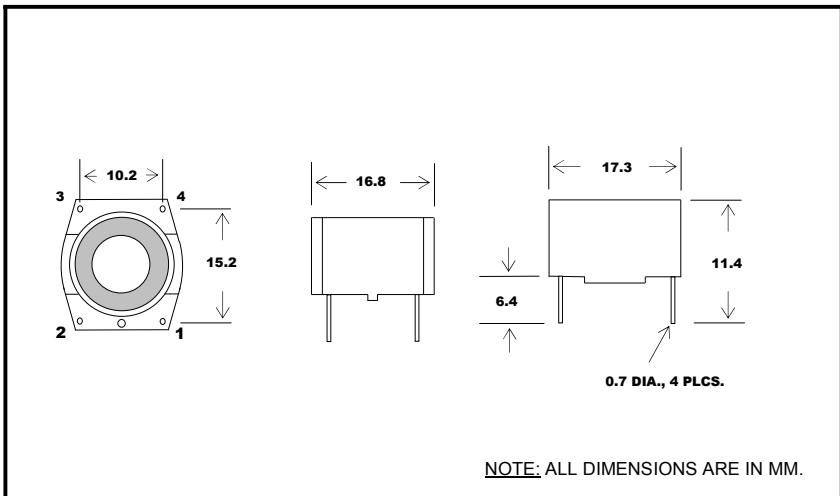
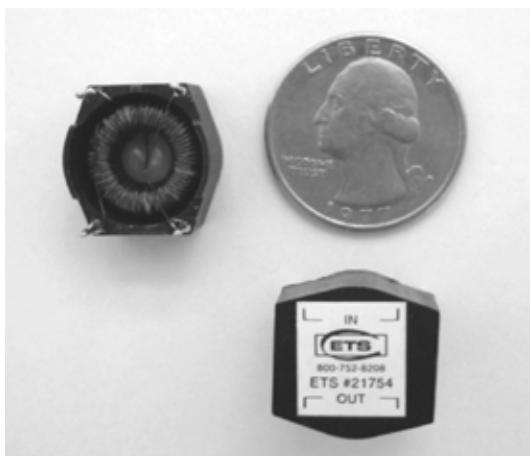
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator balun wall plates give a sleeker, cleaner, more professional installation Easy installation with punch-down blocks Ports are pre-labeled and easily identified Use UTP for long-distance signal transmission with superior performance and easy, low-cost installation Greater stability with wider bandwidth (0 to 60 MHz) Available in WHITE or IVORY Made in USA - 100% tested 	<p>The ETS PV847WP Extended Baseband Video Wall Plate has been designed with a new flat circuit board and decorator wall plate, providing top signal transmission capability and neater, more complementary installations.</p> <p>The PV847WP allows you the freedom to use UTP instead of costly coax to transmit baseband video signals throughout your facility, with better signal characteristics, at a lower cost. Depending on your application, you may be able to utilize previously installed wiring, with a corresponding dramatic improvement in cost of installation.</p> <p>Using the PV847WP (with 4 RCA jacks for all inputs) Quad video, you can transmit 4 distinct baseband video signals on a single run of Cat5 or better UTP, utilizing all four pairs in the cable. Since each pair has a carefully balanced signal, you can run video in two directions on different pairs simultaneously.</p> <p>The PV847WP supports color video at distances in excess of 330 meters, depending on cable type. Black and white signals will typically be supported up to 750 meters.</p>	<ul style="list-style-type: none"> All Baseband Video Applications Security and Surveillance Video Terminals & Displays

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV847WP-X	Quad Baseband Video (4) RCA jack to 110 punch down
Connectors	(4) RCA jacks to 110 punch down type		
Common Mode Rejection	>50dB (video)		
Media	Category 3 or better Category 5 or better recommended		
Distance	1200 ft – Color; 2500 ft – B/W		
Dimensions	79mm x 123mm x 40mm		
Net Weight	0.08 kg		

© Copyright 2005-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV840XFMR Video Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Use UTP for long-distance signal transmission with superior performance and easy, low-cost installation. Greater stability with wider bandwidth (0 to 60-MHz). Rugged plastic case. Made in USA. 100% Tested. 	<p>The ETS Video Balun converts an unbalanced baseband signal to a balanced signal in order to run over structured UTP cabling. The Video Balun requires a pair of balancing resistors. (Note the ETS Special user diagram).</p> <p>The ETS Video Balun grants the freedom to use UTP instead of costly coax to transmit baseband video signals throughout a facility, with better signal characteristics and lower cost. Depending upon the application, installers may be able to utilize previously installed wiring, with a corresponding dramatic improvement in cost of installation.</p>	<ul style="list-style-type: none"> ALL baseband video applications Security and Surveillance Video Terminals Signage and Displays

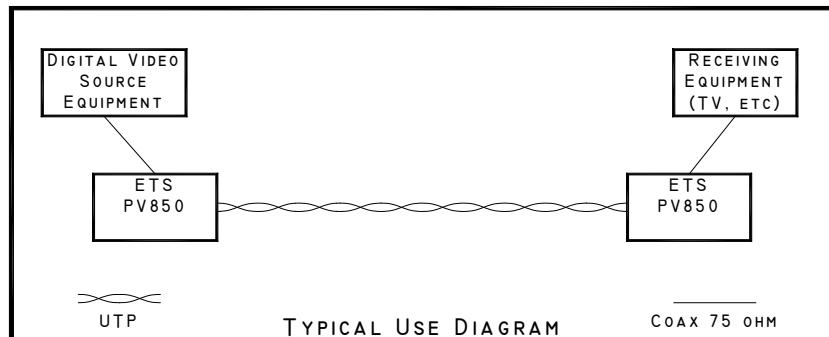
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV840XFMR	Video Balun
Crosstalk	>50dB		
Net Weight	5 g.		

© Copyright 2004-2014 Energy Transformation Systems
 FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 02/103/2014

PV850 Series

Serial Digital Video Media Converter



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Wideband: 270 Mbps for SMPTE 259M video signals Up to 135 meters cabling run length when used with Belden MediaTwist™ or equivalent* Impedance-matched, exceptional balance and reduced ingress Convert from coax to UTP, low cost installation results All metal enclosure for EMI protection Made in USA 100% tested 	<p>The ETS PV850 Serial Digital Video Media Converter is designed to run SMPTE 259M video signals over high-performance UTP (Cat5e or better). NTSC143, PAL177, high-definition 270 Mbps are all broadcast video standards that can be accommodated by the PV850.</p> <p>Balancing the signal within 0.3%, the PV850 reduces EM radiation, enabling the use of unshielded cables while still meeting FCC requirements. The PV850 has been verified FCC-compliant when used with enhanced performance UTP cabling like Belden's MediaTwist™. When used with such cable, run-lengths of 135 meters (450 feet) can be readily achieved.</p>	<ul style="list-style-type: none"> “Smart” Buildings Broadcast Studios Video Production and Post-Production Facilities Display Monitors Video Surveillance

***NOTE:** Effective run length dependent on cable quality. Used with Category 3 – 5 UTP, PV850 may not meet FCC requirements or regulations

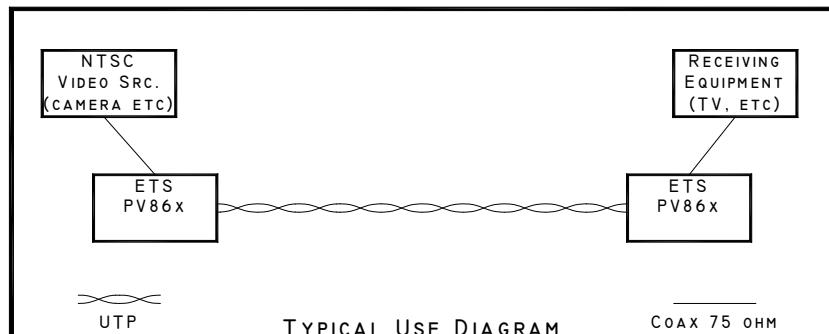
Specifications		Product Ordering Information	
Bandwidth Connectors Impedance Common Mode Rejection Media Distance Dimensions Net Weight	24 kHz to 240 MHz BNC female to RJ45 jack pins 4, 5 75Ω unbalanced to 100Ω balanced 50 dB Category 5e UTP or better * 450 ft – Media Twist; 400 ft – Cat5 25mm x 25mm x 70mm 0.05 kg	PV850 PV852	Serial Digital Video Media Converter FBNC to RJ45 pins 4,5 SDVMC, FBNC to screw terminal

© Copyright 2001-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV860 Series

NTSC Video Balun - BNC female to RJ45: 4, 5



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Run video over UTP for an easy, low cost installation Impedance matching for potentially greater signal transmission distance* compared to the PV840 Supports color signals over 350 meters* Supports black & white over 900 meters* Compact plastic case Made in USA 100% tested 	<p>The ETS PV860 Series of NTSC Baseband Video Baluns are the original video balun for use in adapting baseband video to run over UTP. In comparison to our PV840 baluns, the PV860 offers potentially greater run lengths, depending on cable quality, due to careful impedance matching. Conversely, the frequency range of the PV860 is lower – the PV840 offers extended high-end frequency response for better synchronization.</p>	<ul style="list-style-type: none"> Security and Surveillance Most Baseband Video Applications

*NOTE: Cable quality will affect wiring run lengths vs. received signal quality.

Specifications		Product Ordering Information	
Bandwidth	35 Hz to 4.5 MHz	PV861B	NTSC Video Balun – BNC female to RJ45: 4, 5

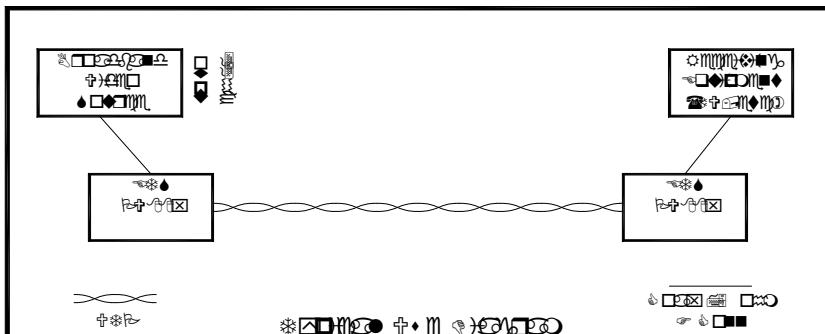
NOTE: Other configurations are available upon request.

© Copyright 2001-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PV880 Series Broadband Video Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Transports broadband video signals over structured wiring (UTP)* Up to 77 channels (550 MHz) on CATV spectrum Low-cost solution for moves, add-ons and changes by reducing costs of cable and re-wiring labor Sturdy, compact plastic case Made in USA 100% tested 	<p>Broadband video (CATV) over UTP, once thought to be impractical (or impossible), is now commonplace, due to the use of the PV880 Series of Broadband Video Baluns from ETS. Commercial and professional grade video can be transmitted over Category 5 and better UTP.</p> <p>Distance is a function of frequency and signal level. Using Category 5 or better cable, all channels up to 26, at a drive level of not more than 36dBmV will accommodate 100 meters. The usable distance is reduced at higher channels, reaching 50 meters at channel 78.</p> <p>APPLICATION NOTE: Off-air channel 26 is 542MHz to 548 MHz. CATV enables packing channels into unused on-air frequencies.</p>	<ul style="list-style-type: none"> Media Retrieval Systems Schools Churches Production Monitoring Security and Surveillance Displays “Smart” Houses Teleconferencing Cable TV Distribution

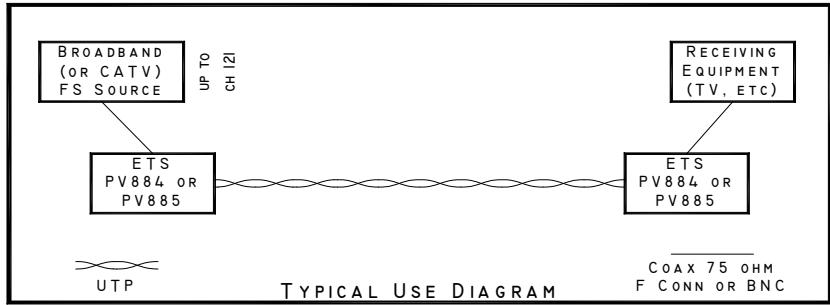
***NOTE:** Category 5 or better cable recommended. Other cabling may result in non-compliance with FCC rules and regulations.

Specifications		Product Ordering Information				
Bandwidth	50 MHz to 550 MHz	PV880	Broadband Video, male F on 6" pigtail to RJ45, pins 1 & 2			
Connectors	F connector (m or f) to RJ45	PV882	Broadband Video, female F to RJ45 pins 4, 5			
Impedance	75Ω unbalanced to 100Ω balanced	PV883	Broadband Video, male F on 6" pigtail to RJ45 pins 4, 5			
Insertion Loss	3 dB	PV882-FG	F connector gender adapter, male to male			
Return Loss	16 dB					
Common Mode Rejection	>40 dB					
Distance	164 ft up to 77 channels	Cable Type v. Channel = (Approximate) Distance Chart				
Media	Category 5e or better UTP recommended		Channel	2	26	77
Dimensions	46mm x 25mm x 19mm (+ pigtail on PV883)			120	Signal Max	
Net Weight	0.02 kg			CAT5	170m	80m
				CAT5e	195m	95m
				Level 7	230m	110m
			(or equivalent)		60m	N/A
						36dBmV
						41dBmV
						46dBmV

© Copyright 2001-2014 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 1/30/14

PV884, PV885, PV888, PV889 ULTRA Broadband Video Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Transport ALL CATV spectrum video signals over UTP* Up to 120+ channels (850 MHz) in CATV spectrum Low-cost solution for moves, add-ons and changes by reducing cost of cable and associated labor Shielded metal enclosure Made in USA 100% tested 	<p>Expanding the applications opened by its Broadband Video Baluns, ETS introduces the PV884 and PV885 – ULTRA Broadband Video Baluns. Frequency range has been increased and EMI reduced, both due to enhanced filtering and an all-metal enclosure.</p> <p>FCC requirements preclude boosting signal levels to the values required to guarantee preset distances. Distance achievable is a function of signal level, balance and the degree to which the cable used unbalances the signal. Cat5e maintains signal balance at least 5 dB better than Cat5. Level 7 or equivalent cable is another 5 dB better, providing for a signal drive level of not more than 46 dBmV.</p> <p>The PV884 offers a BNC connector for use with professional grade equipment. “Prosumer” and consumer electronics that connect using ‘F’ connectors require the ETS PV885 or PV888 baluns.</p>	<ul style="list-style-type: none"> Cable TV Distribution Media Retrieval Systems Schools Churches Production Monitoring Security and Surveillance Displays “Smart” Houses Teleconferencing

*NOTE: Category 5e or better cable recommended. Other wiring may result in non-compliance with FCC rules and regulations.

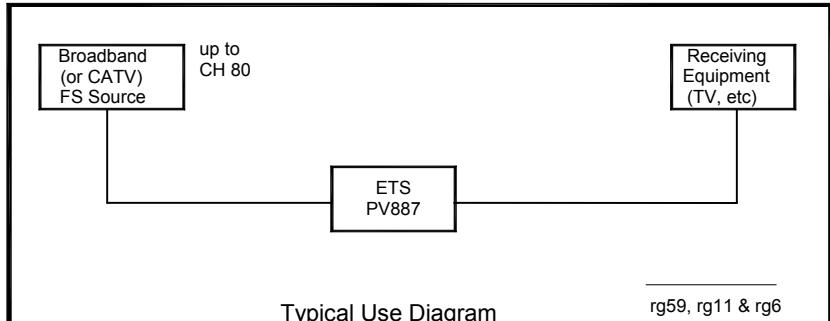
Specifications		Product Ordering Information				
Bandwidth	20 MHz to 850 MHz CATV to 120+, off air channels 2 to 75	PV884	Ultra Broadband, female BNC to RJ45 pins 4, 5			
Connectors	BNC or F connector to RJ45	PV885	Ultra Broadband, female ‘F’ to RJ45 pins 4, 5			
Impedance	75Ω unbalanced to 100Ω balanced	PV888	Ultra Broadband, male ‘F’ on 6” pigtail to RJ45: 4, 5			
Insertion Loss	3 dB up to 350 MHz; 5 dB up to 850 MHz	PV889	Ultra Broadband, male ‘F’ on 6” pigtail to RJ45: 1, 2			
Return Loss	16 dB	PFA	F connector gender adapter, male to male			
Distance	130 ft up to 120 channels	‘Rough’ Cable Type v. Channel = Distance Chart				
Common Mode Rejection	>40 dB	chan. →	2	26	77	120
Media	Category 5e or better UTP		180m	85m	50m	40m
Dimensions	25mm x 25mm x 70mm		CAT5			36dBmV
Net Weight	0.07 kg		CAT5e	215m	100m	60m
			Level 7	280m	120m	70m
				(or equivalent)		
						41dBmV
						46dBmV

© Copyright 2004-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PV887 CATV Isolator

CATV Isolator, F connector, input & output



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Breaking the DC path eliminates most types of interference Hum virtually eliminated Rugged housing Made in USA 100% tested 	<p>Expanding the applications opened by Broadband Video Baluns, ETS adds the PV887 CAT5 Isolator to the ETS line of Broadband Video Baluns.</p> <p>The CATV Isolator breaks the connection between the input and the output, blocking DC voltages. The TV signals up to channel 82 (20 MHz to 550 MHz) are easily transmitted across the barrier.</p> <p>CATV Isolator can locate anywhere between the antenna and the TV set.</p> <p>The PV887 offers 'F'-type connectors for input and output.</p>	<ul style="list-style-type: none"> Cable TV Distribution Media-Retrieval Systems Schools Churches “Smart” Houses

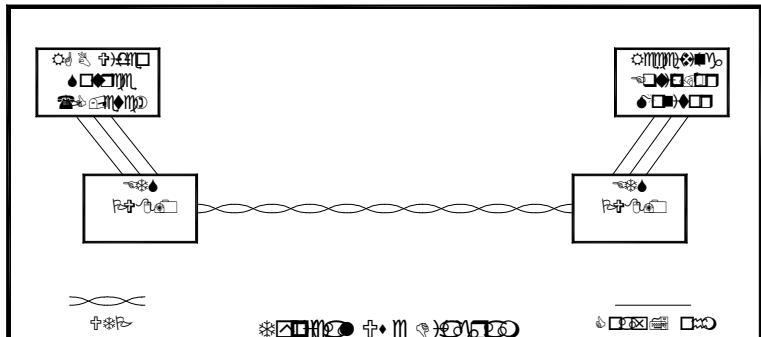
Specifications		Product Ordering Information	
Connectors	F connectors for input and output	PV887	CATV Isolator, F connector, input & output

© Copyright 2003-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PV890 Series RGB Video Baluns



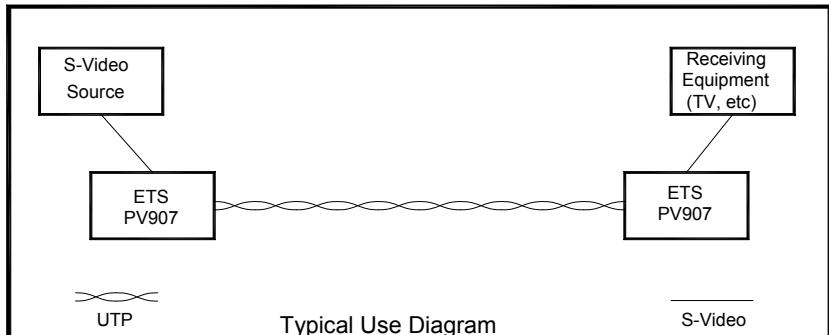
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> SOG and separate sync models available Send RGB over UTP at distances of up to 600 meters (150 meters nominal using CAT3 cable) Supports up to 1024 x 768 resolution at 75 Hz refresh Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting May utilize existing telecom wiring Sturdy compact plastic case Made in USA 100% tested 	<p>The ETS PV890 Series of RGB Video Baluns enable sending RGB video signals over standard telecom wiring (UTP), of Category 3 or better quality. The PV890 supports RGB with SOG (sync on green), using 3 pairs of UTP. The PV891 enables RGB with separate sync to be run using 4 pairs.</p> <p>Both baluns support monitors with resolutions up to 1024 x 768 pixels, at refresh rates of up to 75 Hz. The RGB Baluns enable the user or installer to take advantage of pre-installed telecom wiring, or to gain the cost advantage of wiring with UTP instead of coax.</p> <p>PV890 baluns optionally ship with 3 color-coded coax jumper cables to connect to the source and receiving equipment. (Order part number RGBJ3 for each set).</p>	<ul style="list-style-type: none"> Remote Display Applications Video Projection Systems Conference Rooms Schools

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz, each channel	PV890	RGB Video Balun – 3 BNC female (SOG) to RJ45 (R pair 4, G pair 3, B pair 2)
Connectors	3 or 4 BNC female to RJ45 jack	PV891	RGB Video Balun – 4 BNC female (separate sync) to RJ45 (R pair 4, G pair 3, B pair 2, sync pair 1)
Distance	100 meters (TIA 568), 500 ft	PV894	RGB(3) FBNC to 7ft UTP RJ45 plug
Emissions	Meets FCC Class A	PV890-J3	Set of 3 Color Coded Coax Jumpers 12"
Common Mode Rejection	50 dB		
Media	Category 3 or better		
	Category 5 or better recommended		
Dimensions	66mm x 66mm x 28mm		
Net Weight	0.02 kg (0.1 kg PV845)		

© Copyright 2001-2014 Energy Transformation Systems, Inc.
 FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 1/30/2014

PV907 Series S-Video Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> S-Video (Y/C baseband) channel on single run of UTP Use for point-to-point replacement of coax and shielded cables Rugged plastic cases Made in USA 100% tested 	<p>The ETS PV907 S-Video adapts Category 5 or better premise wiring for use with Super-VHS, Hi-8 and other "Y/C" format, high-quality video signals.</p> <p>The PV907 uses the industry-standard 4 pin mini-DIN connector. This arrangement matches the connector on most high-end consumer and Y/C format professional video devices.</p> <p>The PV907 is a passive (non-powered) device. It is bi-directional, in the sense that identical baluns are used on transmit and receive ends of the run of UTP. Used in pairs to adapt both ends of a run of Category 5 or better cable, the result is clean, transparent video transmitted over distances in excess of 300 meters.</p>	<ul style="list-style-type: none"> Home Theater High-Resolution Remote Monitors "Prosumer" Video Equipment Video Projection Systems Video Production Houses

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV907	S-Video without audio 4 pin Mini DIN to RJ45 jack pins 1,2 & 7,8
Common Mode Rejection	>50dB	PV907PT	S-Video without audio + Pass Through, (1) 4 pin mini din + (1) 4 position terminal to RJ45 jack, all pairs used
Connectors	4 pin Mini DIN to RJ45 jack		
Distance	Excess 300 meters, 1000 ft		
Emission	Meets FCC Class A		
Media	Category 3 or better		
Dimensions	Category 5 or better recommended		
Net Weight	66mm x 66mm x 28mm		
	0.07 kg		

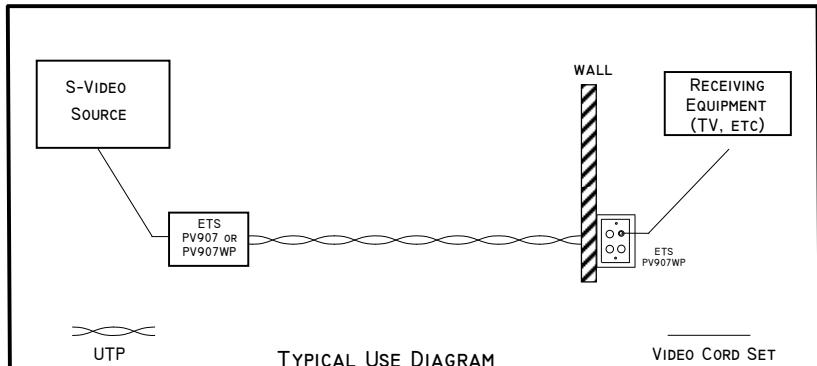
© Copyright 2005-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised10/13/2011

PV907WP Series

S-Video without audio 4 pin Mini DIN to 110 punch down



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator balun wall plates for a sleeker, cleaner professional installation Easy installation with punch-down blocks Ports are pre-labeled and easily identified Use for point-to-point replacement of coax and shielded cables Available in white or ivory Made in USA 100% tested 	<p>The ETS PV907WP S-Video Balun has been redesigned with a new flat circuit board and is used for point-to-point replacement of coaxial (video) when used with UTP wiring, Category 5 or better.</p> <p>The PV907WP S-Video Balun with an industry-standard 4-pin Mini DIN connector is designed for installations that require high-end consumer and Y/C format professional video devices.</p> <p>The PV907WP S-Video Balun is a passive (non-powered) device. It is bi-directional, in that identical baluns are used on transmit and receive ends of the run of UTP. Used in pairs to adapt both ends of a run of Category 5 or better cable, the result is clean, transparent video signals transmitted over distances in excess of 300 meters.</p>	<ul style="list-style-type: none"> Schools Classrooms Auditoriums Home Theater Security & Surveillance Satellite TV Facilities Personal Computers Healthcare Facilities

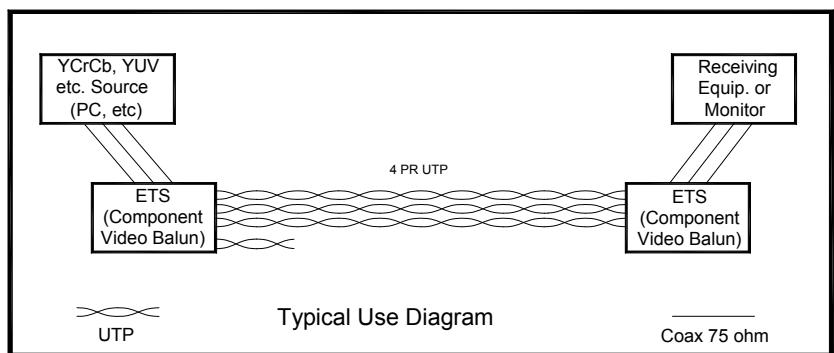
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz	PV907WP-X	S-Video without audio 4 pin Mini DIN to 110 punch down
Connectors	4 pin Mini DIN to 110 punch down type		
Common Mode Rejection	>50dB		
Distance	Excess of 300 meters, 1000 ft		
Media	Category 3 or better, Category 5 or better recommended		
Emmission	Meets FCC Class A	<u>NOTE:</u> FOR WHITE, X= WH	
Dimensions	79mm x 123mm x 40mm	FOR IVORY, X= IV	
Net Weight	0.08 kg		

© Copyright 2006-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/11

PV920 Series Component Video Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Sends Component Video signals on UTP at distances of up to 500 feet (150 feet nominal using CAT3 cable) RCA jacks for home theaters BNC connectors for professional use Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting May utilize existing telecom wiring Sturdy compact plastic case Made in USA 100% tested 	<p>The ETS PV920 Series of Component Video Baluns are designed for ease of use and consistent signal labeling in applications utilizing component video signals.</p> <p>Component video formats include RGB, YUV, YIQ and YCbCr. The PV920 baluns are functionally identical to the PV890 series, but may be custom labeled for use with your application as required (YCbCr shown above). Due to custom labeling requirements, additional lead times <i>may</i> apply for these products.</p> <p>YCbCr component video is a recent addition to consumer equipment found on some DVD players, high-end televisions and home theater equipment. Professional uses include cameras and VCRs based upon any of the above standards.</p> <p>The PV926 allows you to send Component Video and infrared signals on the single run cat5 or better UTP.</p>	<ul style="list-style-type: none"> DVD / Home Theater Broadcast Studios Video Production and Post-Production Facilities Video Projection Systems Conference Rooms Schools

Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz, each channel (Video) 20 KHz to 20 MHz (IR)	PV920	CVB, (3) FBNC to RJ45 jack, pins 1,2 3,6 & 7,8
Crosstalk	>50dB (Video) >40dB up to 20 MHz (IR)	PV920PT	CVB + Pass Through (3) FBNC + (1) position terminal to RJ45 jack, all pairs used
Impedance	75 ohm to 100 ohm (IR)	PV921	CVB, (3) RCA jack to RJ45 jack, pins 1,2 3,6 & 7,8
Connectors	FBNC's, Terminal (for Pass Through), RCA jacks to RJ45 jack	PV921PT	CVB + Pass Through (3) RCA jacks + (1) 2 position terminal to RJ45 jack, all pairs used
Emission Media	Meets FCC Class A Category 3 or better Category 5 or better recommended	PV924	CVB+ Pass Through, (4) RCA jack to RJ45 jack , all pins
Dimensions	66mm x 75mm x 28mm	PV926	CVB+IR (3) RCA jacks +(1) 3.5mm jack to RJ45 jack, all pins
Net Weight	0.09 kg	RGBJ3	Set of 3 Coax RG59U jumper cables, 12" each

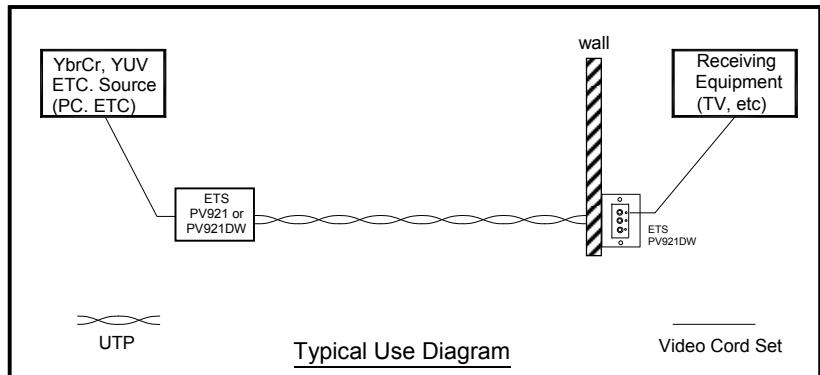
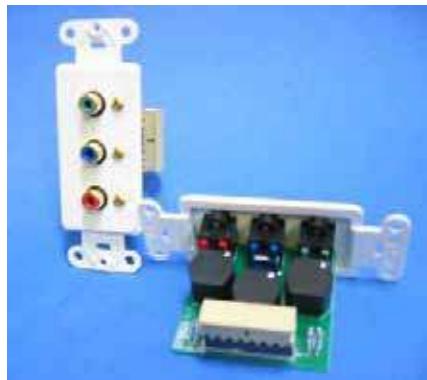
Note: Video: pins 1,2, 3,6 & 7,8;
Y (pins 7,8), Cb (pins 1,2) and Cr (pins 3,6)

© Copyright 2006-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised10/13/2011

PV920DW Series

DW Component Video (3) RCA jacks to 110 punch down



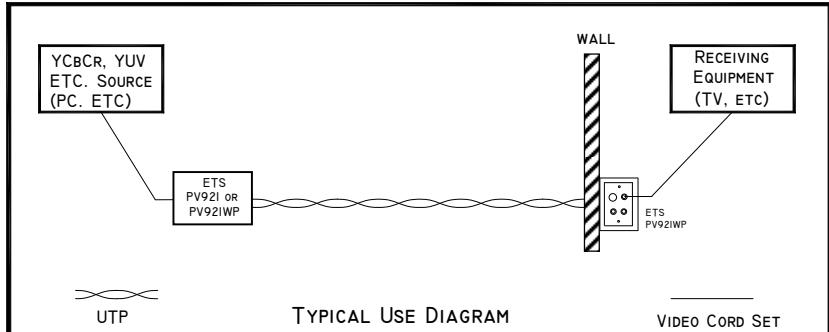
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Decorator wall plates for a sleeker, cleaner professional installation Easy installation with punch down blocks Ports are color coded for easy identification Send Component Video on UTP at distances of up to 600 ft (150 ft. nominal with CAT3 cable) Meets FCC Class A Superior signal balancing, lower crosstalk, less ingress and ghosting May utilize existing telecom wiring Made in USA 100% tested Available in White or Ivory 	<p>The ETS PV921DW Component Video Decorator Wall Plate has been designed with a new flat circuit board and decorator wall plate giving neater, more professional installations by complementing existing wall plates. For ease of use, all ports are color coded, giving consistent signal labeling for applications utilizing component video signals.</p> <p>The completely passive PV921DW features gold-plated female RCA connectors on a modular Decora faceplate and fits in a standard-depth wall box.</p> <p>Component video formats include RGB, YUV, YIQ and YCbCr. The PV921DW Decorator Wall Plate is functionally identical to the PV921WP.</p> <p>YbCr component video is a recent addition to consumer equipment, found on some DVD players, high-end televisions, and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards.</p>	<ul style="list-style-type: none"> DVD/Home Theater Broadcast Studios Production and Post-production Facilities Video Projection Systems Conference Rooms Schools

Specifications		Product Ordering Information
Bandwidth	Flat to 60 MHz, each channel	PV921DW-X DW Component Video (3) RCA jacks to 110 punch down
Connectors	RCA jacks to 110 punch-down type	
Distance	500 ft	
Media	Category 3 or better	
Emission	Category 5 or better recommended	
Dimensions	Meets FCC Class A	
Net Weight	36mm x 104mm x 63mm	
	0.06 kg	<p><u>NOTE:</u> FOR WHITE, X= WH FOR IVORY, X= IV</p>

© Copyright 2006-2011 Energy Transformation Systems, Inc FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/3/2011

PV920WP Series Component Video Wall Plates



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> • Decorator wall plates for a sleeker, cleaner professional installation • Easy installation with punch-down blocks • Ports are pre-labeled and easily identified • Send Component Video signals on UTP at distances of up to 600 feet (150 feet nominal using CAT3 cable) • Meets FCC Class A • Superior signal balancing, lower crosstalk, less ingress and ghosting • May utilize existing telecom wiring • Made in USA • 100% tested • Available in White or Ivory 	<p>The ETS PV920WP/PV921WP Component Video Wall Plate has been designed with a new flat circuit board and decorator wall plate giving neater, more professional installations by complementing existing wall plates. For ease of use all ports are pre-labeled for consistent signal labeling for applications utilizing component video signals.</p> <p>Components video formats include RGB, YUV, YIQ and YCbCr. The PV920WP/PV921WP Wall Plate Balun are functionally identical to the PV890WP, but may be labeled for use with your application as required (YCbCr shown above). Due to custom labeling requirements, additional lead times may apply for these products.</p> <p>YCbCr component video is a recent addition to consumer equipment, found on some DVD players, high-end televisions and home theater equipment. Professional uses include cameras and VTRs based upon any of the above standards.</p>	<ul style="list-style-type: none"> • DVD/Home Theater • Broadcast Studios • Production and Post-production Facilities • Video Projection Systems • Conference Rooms • Schools • Healthcare Facilities

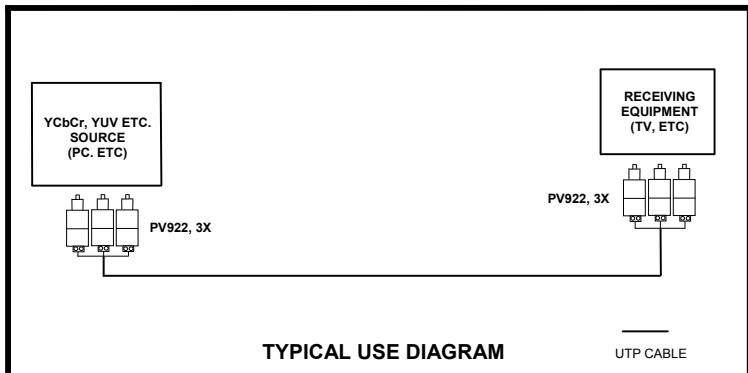
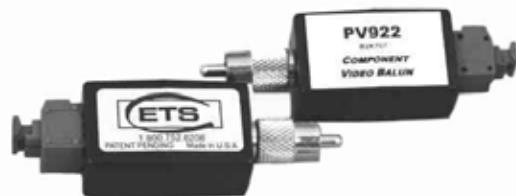
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz, each channel	PV920WP-X	Component Video, (3) FBNC to 110 punch-down
Crosstalk	>50dB	PV921WP-X	Component Video, (3) RCA jacks to 110 punch-down
Connectors	RCA jacks or FBNC to 110 punch down type	PV926WP-X	CV+IR (3) RCA jacks + (1) 3.5mm jack to 110 punch-down
Distance	500 feet		
Media	Category 3 or better		
	Category 5 or better recommended		
Emission	Meets FCC Class A		
Dimensions	79mm x 123mm x 40mm	<u>NOTE:</u> FOR WHITE, X= WH FOR IVORY, X= IV	
Net Weight	0.08 kg (0.11 kg for PV920WP)		

© Copyright 2005-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV922 Series

CVB, RCA plug to screwless terminals



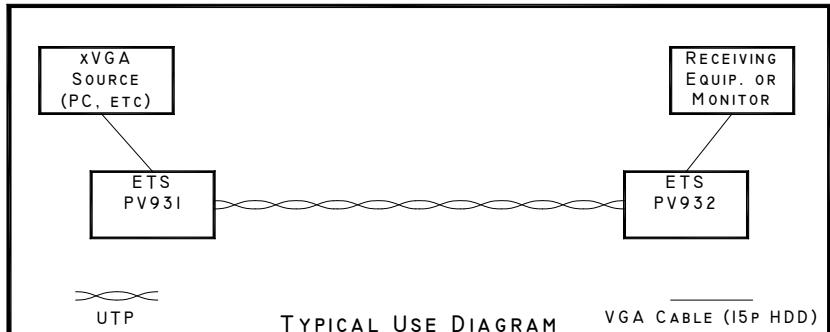
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Small form factor Gives ability to connect a CAT5 cable directly to the TV eliminating the need for costly coax cables Superior signal balancing, lower crosstalk, less ingress and ghosting Light-weight, extended frequency units handle signals up to 152m (500 feet) Easy installation with tool-less, push connectors Meets FCC Class A Sturdy, compact plastic case Made in USA 100% tested 	<p>The ETS PV922 Component Video Balun is designed for ease of use and consistent signal labeling in applications that utilize component video signals. Each ultra compact, passive, analog unit is fitted with a male RCA plug on one end with a tool-less strip-and-push two-wire connector on the other end. Three PV922 units are used on each end of a CAT5 or CAT6 cable for Cr, Y and Cb video signals.</p> <p>An advantage of using the PV922 units plugging directly into the receiver, DVD player, and monitor without the need for additional cable. This reduces the amount of connections needed thereby, improving reliability. PV922 units, along with balanced CAT5 or CAT6 cable will eliminate interference and ground loops that often cause video hum bars and frequently plague coax solutions.</p> <p>Since only 3 of the 4 pairs of wires are used with the CAT5 or CAT6 cable, the remaining pair can be used with the ETS Digital Audio Baluns (PA881) which has an RCA jack to an RJ45 jack and uses pins 5, 4. With this setup the application is fully transparent.</p>	<ul style="list-style-type: none"> Home Theaters Retail Video Promotions Sports Bars Casinos Sports Arenas Educational Facilities

Specifications		Product Ordering Information
Bandwidth	Flat to 60 MHz	PV922 CVB, RCA plug to screwless terminals
Crosstalk	>50dB	
Return Loss	>15dB over the frequency range	
Connectors	RCA plug to screwless terminals	
Media	Category 5 or better	
	Category 5 or better recommended	
Distance	500 ft	
Dimensions	75mm x 25mm x 19mm	
Net Weight	0.017kg	

© Copyright 2007-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

PV930 Series

VGA Video Balun, Set



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Transparent operation Compatible with all VGA/ SVGA/XVGA modes Supports EPA "Energy Star" standard Rugged plastic case Made in USA 100% tested 	<p>The ETS PV930 VGA Video Balun Set enables computer video signals adhering to the VGA/ SVGA/XVGA standards to be transmitted over Category 5 or better UTP wiring*. All modes and resolutions operate normally. Distance and quality of transmission are dependent on type of cable used and monitor sync circuitry. The circuitry in the PV930 set of VGA Video baluns is fully passive, requiring no external power.</p> <p>CAUTION: This product not appropriate with most LCD and other flat-panel displays.</p> <p>For running multiple monitors and/or daisy-chaining applications, please consider the PV974G Active VGA product set.</p>	<ul style="list-style-type: none"> Meeting Halls Churches Schools Classrooms Auditoriums Information Kiosks Monitoring Stations Healthcare Facilities

*NOTE – Results may vary depending on quality of cable as well as monitor circuitry. Category 5e or better cable recommended.

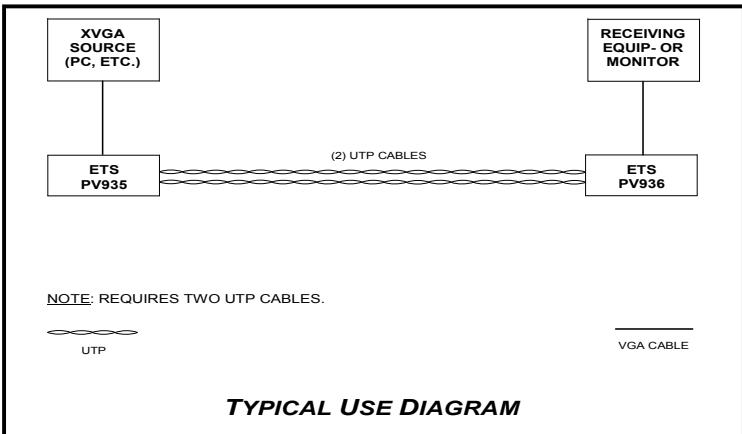
Specifications		Product Ordering Information	
Bandwidth	Flat to 60 MHz (RGBHV)	PV930	Set, VGA video baluns: PV931 + PV932
Connectors	15p HDD to RJ45 Red : HDD 1(& 6) to 1 & 2 RJ45 Green: HDD 2 (& 7) to 4 & 5 RJ45 Blue: HDD 3 (& 8) to 7 & 8 RJ45 H & V sync: HDD 13, 14 to 3 & 6 RJ45	PV931	Computer end for PV930
Distance	Resolution 1024 x 768 – 490 ft	PV932	Receive end for PV930
Dimensions	66mm x 66mm x 28mm (PV931, PV932) + 6" pigtail on PV931		
Net Weight	0.2kg		

© Copyright 2001-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised11/107/2011

PV934 Series

VGA Video Balun, Set



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> • Transparent operation • Compatible with all VGA/ SVGA/XVGA modes • Rugged plastic cases • Made in USA • 100% tested 	<p>The ETS PV934 VGA Video Balun Set enables computer video signals adhering to the VGA/ SVGA/XVGA standards to be transmitted over Category 5 or better UTP wiring. All modes and resolutions operate normally. Distance and quality of transmission are dependent on type of cable used and monitor sync circuitry. The circuitry in the PV934 set of VGA video baluns is fully passive, requiring no external power.</p> <p><i>The PV934, employing two cables, works with virtually all display types.</i></p> <p>For running multiple monitors and/or “daisy-chaining” applications, please note the PV970G or AV970G Active VGA product set.</p>	<ul style="list-style-type: none"> • Meeting Halls • Churches • Schools • Classrooms • Auditoriums • Information Kiosks • Monitoring Stations • Healthcare Facilities

*NOTE – Results may vary, depending upon quality of cable as well as monitor circuitry. Category 5e or better cable recommended.

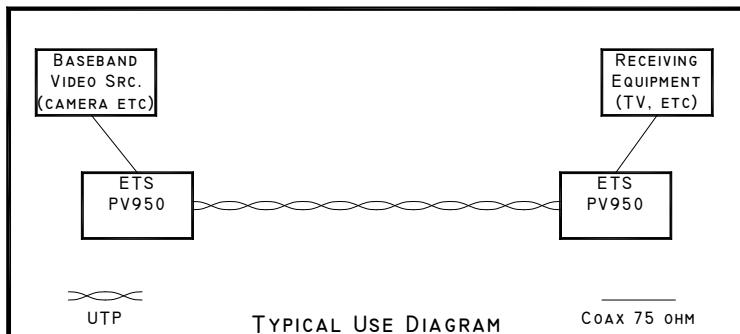
Specifications		Product Ordering Information
Bandwidth	Flat to 60 MHz (RGBHV)	PV934 Set, VGA Video Baluns: PV935 + PV936
Connectors	15 pin HDD 6" pigtail to two RJ45's Red : HDD 1(& 6) to 1 & 2 RJ45 (#1) Green: HDD 2 (& 7) to 5 & 4 RJ45 (#1) Blue: HDD 3 (& 8) to 7 & 8 RJ45 (#1) Hor: HDD 13 (&10) to 5 & 4 RJ45 (#2) Vert sync: HDD 14 (&10) to 7 & 8 RJ45 (#2)	PV935 Computer End for PV934, Male DB15
Distance	Resolution 1024 x 768 – 490 ft	PV936 Receive End for PV934, Female DB15
Dimensions	66mm x 66mm x 28mm (PV935, PV936) + 6" pigtail	
Net Weight	0.2kg	

© Copyright 2004-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV950 Series Isolated Video Balun



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Ideal for situations where differing ground potentials between send and receive units create ground loop conditions, degrading picture quality. Use UTP for long distance signal transmission with superior performance and easy, low-cost installation Distances: <ul style="list-style-type: none"> Color > 330 meters B/W > 750 meters Rugged plastic case Made in USA 100% tested 	<p>The PV950 Isolated Video Balun from ETS is designed for baseband (CCTV), NTSC, PAL and SECAM signals. The PV950 blocks the effects of ground loops (visual ripples and warps in the video image, often referred to as "hum bars") when sending baseband video signals over Category 5 or better 100Ω twisted pair cabling (UTP or STP).</p> <p>The PV950 uses special circuitry to block noise ingress at the point of entry to the Category 5 cabling, yielding a better transmission medium for baseband video, especially over the longer distances required by many current applications. The baluns, passive (no power required) devices, convert baseband signals from the 75Ω coax cabling of any source equipment. The PV950 creates a balanced signal and sends it over 100Ω UTP wiring, then converts back at the receiving end, yielding excellent picture quality.</p>	<ul style="list-style-type: none"> Many Baseband Video applications Security and Surveillance Video Terminals, Displays

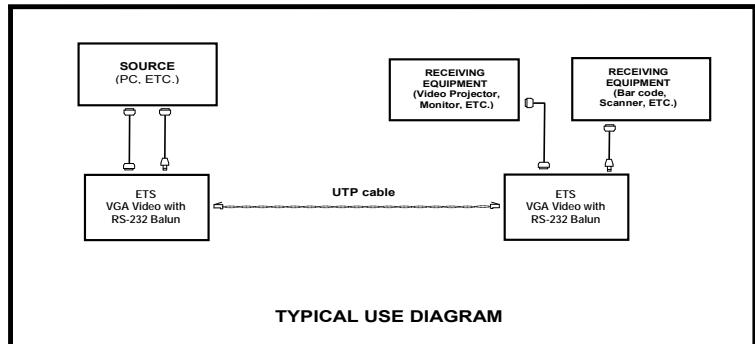
Specifications		Product Ordering Information	
Bandwidth	10 Hz to 4.2MHz	PV950	Isolated Baseband Video Balun, FBNC to RJ45, pins 5, 4

© Copyright 2001-2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 11/07/2011

PV973G Series Active VGA Extender with RS232 Set



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Designed for video projectors where a RS-232 video signal is important Extends VGA signals using one UTP cable for both VGA and RS-232 control High resolution: up to 1600x 1200 at 60Hz Distance up to 500 ft. (or 1000 ft. using Belden® skew-free cable) Works with monitors, projectors, HDTV and flat panels RS-232 works with scanners and touch- screen controls DB9 to 3.5mm adapter cable is included. 1 Year Warranty 	<p>The ETS VGA + RS-232 Extender over one CAT5/Cat6 cable allows sending VGA + RS-232 signals together over long distances via only one inexpensive CAT5/CAT6 cable. Distances of up to 500 feet are easily achieved.</p> <p>The VGA + RS-232 Extender supports resolutions up to 1600 x 1200 at 60 Hz.</p> <p>A convenient gain and equalizer trim POT control selector on the receiver unit is designed for optimum signal clarity according to the length of the Category5 cables. (A small screwdriver is included for your convenience.)</p>	<ul style="list-style-type: none"> Auditoriums Boardrooms Churches Classrooms Digital Signage Meeting Halls Information Kiosks Monitoring Stations Projectors Retail & POS Schools Trade Shows

Specifications		Product Ordering Information		
Signal Noise Ratio	90dB	PV973G	Active VGA Extender with RS232 Set	
Support Specification	Plug-and-Play			
Transmitter and Receiver	HDB-15 Female (video)	VGA	800x600	1000 ft
Connectors	3.5 mm jack (RS-232)	SVGA	1024 x 768	800 ft
Link Connector	RJ45	XVGA	1280 x 1024	500 ft
Power Supply	5Vdc, 2.0A	UXGA	1600 x 1200	300 ft
Dimensions (HxLxW)	Transmitter: 112x62x27mm Receiver: 100x53x27mm	These are conservative distances, as this active adjustable unit compensates for variables such as lower cable quality.		
Net Weight	Transmitter: 219g Receiver: 185g			

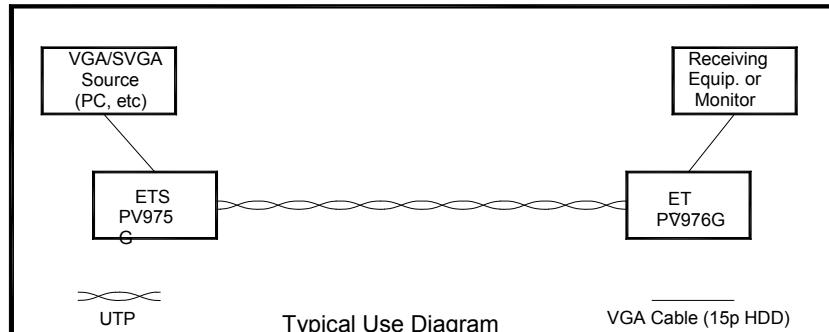
© Copyright 2006 - 2011 Energy Transformation Systems, Inc.

FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV974G Series

Active VGA Dual Outputs Set (1) PV975G & (1) PV976G



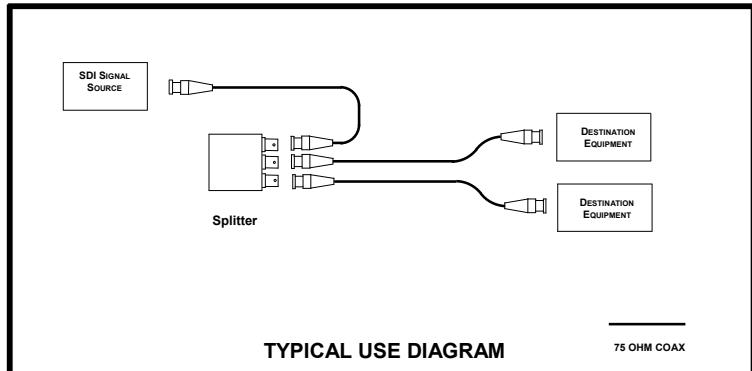
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> • Transparent operation • Run VGA signal over Cat5 cable up to 500 ft. • Compatible with all VGA/SVGA/XGA and SXGA modes • Supports EPA "Energy Star" standard • Two LED's for function status (Power & Active) • Slide switch for equalizer selection • Rugged metal case • 1-year warranty 	<p>The ETS PV974G Active VGA Video Balun Set enables computer video signals adhering to the VGA/SVGA/XGA and SXGA standards to be transmitted over Cat5 or better UTP wiring up to 500 ft. distant with a resolution of 1024 x 768.</p> <p>The PV975G (computer-end) duplicates the input signal for local use and transmits the VGA signal to the PV976G (monitor-end) then broadcasts the signal to two VGA outputs.</p> <p>A convenient gain (equalization) control selector on the monitor-end unit is designed for optimum signal clarity, depending upon length of the Cat5 cables.</p> <p>For running both Audio+Video, note the ETS AV974G Series.</p>	<ul style="list-style-type: none"> • Meeting Halls • Churches • Schools • Classrooms • Auditoriums • Information Kiosks • Monitoring Stations • Trade Shows

Specifications		Product Ordering Information	
Signal type	VGA, SVGA and multisync	PV974G	Active VGA Dual Outputs Set (1) PV975G & (1) PV976G
Connectors	(1) male + (2) female 15p HDD to RJ45 jack (computer end)		Active VGA Dual Outputs, Computer End (1) PV975G
	(2) female 15p HDD to RJ45 jack (monitor end)		Active VGA Dual Outputs, Monitor End (1) PV976G
Equalizer selector	4 – position slide switch (monitor end)		
LED indicator	Power - (1) green; Active – (1) yellow		
(2) Power supply	AC 120V 60Hz 10W Input; DC 9V, 600mA Output (both computer and monitor end)		
Media	Category 5 or better		
Distance	Resolution 1024 x 768 – 490 ft		
Dimensions	104mm x 21mm x 69mm		
	104mm x 21mm x 65mm		
Net Weight	0.20 kg		

© Copyright 2006-2011 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 10/13/2011

PV990 Series SDI Splitters



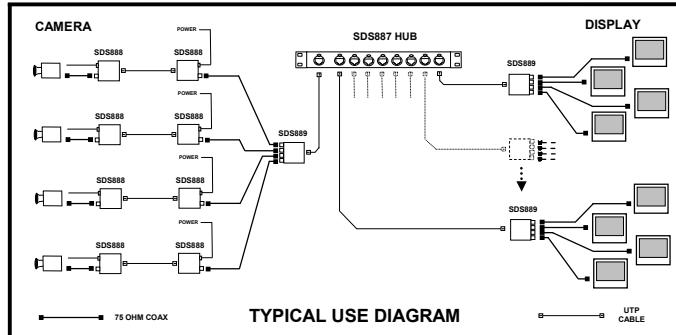
Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Enables two outputs from a single source without interference or impedance-mismatch. Passive device with superior reliability and simplicity: no power required. Individual splitter or in rack-mount panel up to 16 units across. Expandable according to production studio requirements. Sturdy compact anodized plated metal case. 100% tested and USA-made. 	<p>The ETS PV990 Series SDI Splitter is a passive, versatile and easy-to-use video splitter designed for studios and on-location productions, as well as live performance venues. The SDI Splitter can be used for monitoring in a wide variety of installations and locations.</p> <p>The PV990 Series SDI Splitter supports all standard serial digital video data rates up to 3Gbps and is designed to split a SMPTE video signal into two full-quality broadcast video signals and send them to video monitors or other digital devices over RG6 or RG59U coax cable. Distance varies depending on the type of cable, source and display equipment used in the system.</p> <p>Terminating any unused port with a 75 ohm terminator is recommended in order to achieve the specified performance.</p> <p>ETS also offers a 2 RU high panel (ETS – PV993) which allows up to 16 splitters to be installed.</p>	<ul style="list-style-type: none"> HD broadcast installations High-definition video studio and field productions HD Production units/OB vans Multiple displays Live-action stage monitoring Monitoring from remote trailer or control room

Specifications		Product Ordering Information	
Data Rate: Video Format: Connectors: Impedance: Insertion Loss: Return Loss: Media: Operating Temp: Dimensions: Net Weight:	Up to 1.485 Gb/s (PV991) Up to 3 GBps (PV992) SMPTE 259M, SMPTE 292M & SMPTE 424M 75 ohm FBNC all ports 75 ohm < 4 dB -20dB RG6 or RG59 cables -40C to 85 degrees C 63 mm x 58 mm x 26 mm 0.10 Kg	PV991 PV992 PV993 PV994	HD SDI Splitter (1) FBNC to (2) FBNC. 1 input, 2 outputs 3G SDI Splitter (1)FBNC to (2) FBNC, 1 input to 2 outputs 19" Panel, 2 RU - Accommodates up to 16 splitters MBNC 75 ohm Terminator

© Copyright 2011- 2014 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 2/12/14

SDS Video System Video Distribution Hub and Baluns



Features/Advantages	Description	Applications
<ul style="list-style-type: none"> Sends 4 video camera signals to up to 32 monitors Active hub, passive baluns mean a 90% passive system for superior reliability All connectors are high-quality Neutrik™ brand, including new power connectors EtherCon connectors are used for stability. Easily rack-mountable Expandable for any size production Easy portability Major cable runs use Cat5 cable, reducing weight and cost Rugged metal enclosure for road travel. Made in USA, 100% tested 	<p>The ETS SDS887, a UTP Video Distribution Hub, designed for Broadway theaters and other similar theaters, has four baseband video signals transmitting through the distribution amplifier creating 32 outputs. The ETS SDS887 Hub can be used for monitoring in a variety of installations. Note: Unshielded Twisted Pair, Category5 or better cable should be used.</p> <p>The SDS887 Distribution Hub balances the input signal, distributes it on the UTP cable, and converts the signal back at each display. NTSC, PAL, SECAM, or CCTV signals are converted to and from the UTP cable using the ETS SDS888 Video + Power and SDS889 Quad Video Balun.</p> <p>For signal stability, EtherCon connectors are recommended for these products.</p> <p>Intended for theatrical applications where those backstage can monitor on-stage activity, the SDS887 Video Distribution Hub supports color video over a total run length in excess of 330 meters (1100 ft.) inclusive of all cable segments, on Category 5 or better cable. Black and white signals are typically supported up to 750 meters (2500 ft.).</p>	<ul style="list-style-type: none"> Theaters: multi-camera to multi-monitor configurations Point-of-sale and in-store advertising Production monitoring Security and surveillance Electronic displays Live-action monitoring

*NOTE: Category 5e or better cable recommended. Other wiring may result in non-compliance with FCC rules and regulations.

Specifications		Product Ordering Information	
Support Bandwidth	Composite baseband (NTSC, PAL, SECAM, or CCTV) Flat to 60 MHz (SDS888 & 889)	SDS887	UTP Video Distribution Hub, 8 channels with Ethercon RJ45 jack
Connectors	EtherCon RJ45 jack & Power Con 20A (SDS887) FBNC (SDS888, SDS889)	SDS887E	Same as SDS887 – for 230V applications
Crosstalk	2 Position terminal (SDS888)	SDS888	Video + Power, FBNC + screw terminal to RJ45
Pinouts	>50dB (SDS888 & 889)	SDS889	jack – Video (pins 4,5); Power (pins 7,8 & 1,2) Quad Video, (4) FBNC to Ethercon RJ45 jack, all pairs
Power Input	120Vac, 60Hz (SDS887); 230Vac, 50 Hz (SDS887E)	SDS889F	Quad Video, (4) FBNC to Ethercon RJ45 jack all pairs. (Compatible to Foresight pin-outs)
Media	Category 5e or better UTP cable		
Distance	Up to 1100 ft., excluding SDS888		
Dimensions	SDS887 & 887E: 1 RU x 121mm DEEP SDS888: 67 x 77 x 28mm SDS889 & 889F: 85 x 128 x 44 mm (metal case)		
Net Weight	SDS887 & 887E: 1.35 kg (3 lb) SDS888: 0.10 Kg (.22 lb); SDS889 & F: 0.47 kg (1 lb)		

© Copyright 2011- 2013 Energy Transformation Systems, Inc. FatCat5 System panels and information outlets protected under US Patent Number 6,123,577. FatCat5™, FatCat5 System™, Chameleon Color Coding System™, Balanced Star™, Balanced Line™, Monoline™ and Precision Wave™, InstaSnake™, CineSnake™ are trademarks of Energy Transformation Systems. All other brand or product names are or may be trademarks of, and are used to identify the products or services of their respective owners.

Revised 04/02/2013

AUDIO TECNOLOGÍAS™



www.audiotecnologias.com info@audiotecnologias.com