

SEQ 100 BNC & SEQ 100 15HD

SKEW EQUALIZERS

- Compensates skew for:
 - RGBHV, RGBS, & RGsB
 - Component video
 - S-video
- Compatible with all Extron Twisted Pair products
- Independent skew compensation adjustments for each color
- Versatile mounting options
- LED power indicators
- External international power supply included



SEQ 100 BNC



SEQ 100 15HD

The Extron SEQ 100 BNC and SEQ 100 15HD Skew Equalizers compensate for color separation problems commonly encountered when transmitting high resolution video using lengthy data grade Category 5, 5e, or 6 twisted pair cable. These high performance products feature independent time delay adjustments for red, green, and blue, enabling users to dial in precise color alignments for sharper clearer images.



Extron® Electronics

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DESCRIPTION

The Extron **SEQ 100 BNC** and **SEQ 100 15HD** Skew Equalizers enable adjustment of individual red, green, and blue color signals to significantly improve image quality when using data grade CAT 5, 5e, or 6 twisted pair cable. The SEQ 100 BNC accepts input signals on five female BNC connectors and outputs on five female BNC connectors. The SEQ 100 15HD uses individual female 15-pin HD connectors for input and output. Each is ideal for new installations or to upgrade existing twisted pair installations.

When twisted pair cable is used for video transmission, the red, green, and blue signals are each sent through a separate pair of wires. Each pair of wires in typical data grade twisted pair data cable has a different twist ratio, and therefore each pair is a different length. As a result, each color signal arrives at the receiving end at a slightly different time, causing a distortion in the image displayed as visible color separation. The delay that causes this distortion is called skew.

Both the SEQ 100 BNC and SEQ 100 15HD use a time delay circuit on each color input that can be independently adjusted from 0 to 39 nanoseconds. Each model features three rotary time delay switches on the front panel to compensate for the different lengths of each pair of wires. The time delay circuit employs an advanced design that enhances skew compensation while maintaining signal integrity.

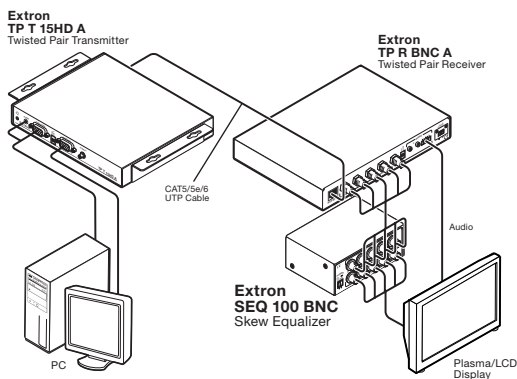
The SEQ 100 BNC and SEQ 100 15HD can be selectively added to only those signal runs that require compensation.

Both models are part of the Extron VersaTools® family of economical, compact products designed for easy integration into new and existing A/V environments. Housed in a 1U, quarter rack width metal enclosure, they fit just about anywhere: in racks, under tables and desktops, or next to a projector. A 12VDC, 1A external international power supply is included.

FEATURES

- **Compensates skew for RGBHV, RGBS, and RGSB signals** – Independent rotary switches allow the arrival of each color signal to be delayed to compensate for the different wire pair lengths
- **Compatible with all Extron twisted pair products** – They can be selectively added to only those signal runs that require compensation
- **Individual red, green, and blue skew compensation controls** – Significantly improves image quality when using data grade CAT 5, 5e, or 6 twisted pair cable
- **Compact 1U, quarter rack width metal enclosure** – For versatile mounting options - Rack, under-desk, and projector mountable
- **LED power indicator on front panel** – For easy troubleshooting
- **External international power supply included, part # 70-055-01**

APPLICATION DIAGRAM



SPECIFICATIONS

VIDEO		
Gain	Unity	
VIDEO INPUT		
Number/signal type.....	1 RGBHV, RGBS, RGSB, component video, S-video Connectors	
SEQ 100 BNC.....	5 female BNC	
SEQ 100 15HD.....	1 female 15-pin HD	
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video, and for C of S-video	
Minimum/maximum levels	Analog: 0.3 V to 1.45 Vp-p with no offset at unity gain	
Impedance	75 ohms	
Horizontal frequency.....	15 kHz to 130 kHz	
Vertical frequency	30 Hz to 150 Hz	
VIDEO OUTPUT		
Number/signal type.....	1 RGBHV, RGBS, RGSB, component video, S-video Connectors	
SEQ 100 BNC.....	5 female BNC	
SEQ 100 15HD.....	1 female 15-pin HD	
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB 0.3 Vp-p for R-Y and B-Y of component video, and for C of S-video	
Minimum/maximum levels	0.3 V to 1.45 Vp-p (follows input)	
Impedance	75 ohms	
SYNC (PASS-THROUGH)		
Input type	RGBHV, RGBS, RGSB	
Output type.....	RGBHV, RGBS, RGSB (follows input)	
Input/output level	TTL: 5.0 Vp-p, unterminated	
Input impedance	75 ohms	
Output impedance	75 ohms	
Max input voltage	5.0 V p-p	
Polarity	Positive or negative (follows input)	
GENERAL		
External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated	
Power input requirements.....	12 VDC, 0.2 A	
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20. Also furniture mountable with an optional Mini Under-Desk Mounting Kit (#70-212-01) or projector mountable with an optional Mini Projector Mounting Kit (#70-217-01).	
Enclosure type	Metal	
Enclosure dimensions	1.7" H x 4.3" W x 3.0" D (1U high, quarter rack wide) 4.3 cm H x 10.9 cm W x 7.6 cm D (Depth excludes connectors.)	
Product weight.....	0.6 lbs (0.3 kg)	
Shipping weight	2 lbs (1 kg)	
Listings	UL, CUL	
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES	
MTBF.....	30,000 hours	
Warranty	3 years parts and labor	
NOTE: All nominal levels are at ±10%		
Model	Version Description	Part Number
SEQ 100 BNC	Skew Delay Equalizer - BNCs	60-675-01
SEQ 100 15HD	Skew Delay Equalizer - 15HD	60-676-01
Optional Accessories		
Mini Projector Mounting Kit		70-217-01
Mini Under-desk Mounting Kit.....		70-212-01
VersaTools Rack Shelf Kit		60-190-20
Basic Rack Shelf Kit		60-604-20
P/S 100 Power Supply.....		60-357-01

Specifications are subject to change without notice.



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