

# VSS 100

## Video Sync Separator



### FEATURES

- Separates TTL sync signal from composite video, S-video, component video, RGsB, or SCART - RGB with composite video signals
- Input: Composite video on a BNC with loop-through
- Output: Composite sync on a BNC
- 450 MHz (-3 dB) video bandwidth
- Enables DSVP™ - Digital Sync Validation Processing verification
- BNC input and output connectors
- Input loop-through
- Power LED indicator
- Compact enclosure
- External universal power supply included, part # 70-055-01

### DESCRIPTION

The Extron **VSS 100** Video Sync Separator is for systems that use video formats with embedded sync, in particular with the SCART connector found in Europe. Sources such as DVD players with RGB and composite video output on a SCART connector can now be used with RGB switchers like the Extron System 7SC. Simply use the RGB output of the DVD player and composite sync output from the VSS 100. The VSS 100 also extracts the sync signal from RGsB, component video, S-video, or composite video inputs. It then outputs the composite sync signal, at TTL levels, on a separate signal line. The original video signal is looped through unchanged.

Systems can take advantage of Extron technologies that depend on a separate sync input such as the DSVP™ - Digital Sync Validation Processing feature on the Extron CrossPoint 450 Plus matrix switchers. Exclusive to Extron, DSVP confirms that input sources are active by scanning all sync inputs for active signals. DSVP provides instantaneous frequency feedback for composite sync or separate horizontal and vertical sync signals via the switcher's RS-232 and RS-422 or Ethernet port.

The VSS 100 fits behind a rack-mounted Extron switcher. For easy integration into the system, it includes a 6 inch male-to-male BNC cable. The sync separator has an external, international power supply that can drive up to four VSS 100s.

### SPECIFICATIONS

#### VIDEO

Gain ..... Unity  
 Bandwidth ..... 6 MHz (-3 dB)

#### VIDEO INPUT

Number / signal type ..... 1 Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video  
 Connectors ..... 1 BNC female  
 Nominal level ..... 1 Vp-p  
 Minimum / maximum levels .. Analog: 0.4 V to 2.0 Vp-p with no offset  
 Impedance ..... 75 ohms  
 Horizontal frequency ..... 15.6 KHz to 17.75 KHz  
 Vertical frequency ..... 50 Hz to 60 Hz

#### VIDEO OUTPUT

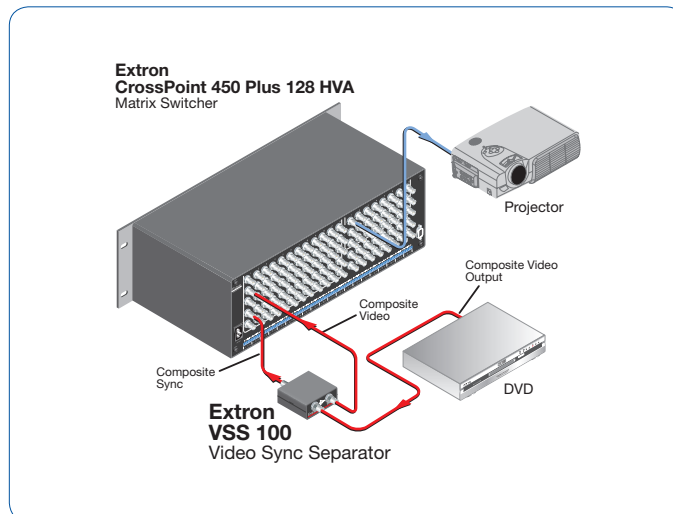
Number / signal type ..... 1 loop-through Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video and 1 composite sync output (see sync section)  
 Connectors ..... 1 BNC female  
 Nominal level ..... 1 Vp-p  
 Minimum / maximum levels .. 0.4 V to 2.0 Vp-p with no offset, follows input  
 Impedance ..... 75 ohms  
 Return loss ..... -38 dB @ 5 MHz

#### SYNC

Input type ..... Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video  
 Output type ..... 1 loop-through Gs (green and sync from RGsB), Y (luma signal from component video or S-video), or composite video  
 1 composite sync output on 1 BNC female connector  
 Standards ..... NTSC 3.58, NTSC 4.43, PAL, SECAM  
 Input level ..... 0.3 Vp-p (sync portion only)  
 Output level ..... TTL: 5.0 Vp-p, unterminated  
 Input impedance ..... 75 ohms  
 Output impedance ..... 75 ohms  
 Max. propagation delay ..... 50 ns  
 Max. rise / Fall time ..... 2.5 ns  
 Polarity ..... Negative

#### GENERAL

External power supply ..... 100 VAC to 240 VAC, 50/60 Hz, external, universal; to 12 VDC, 1.0 A, regulated  
 Power input requirements ..... 12 VDC, 0.25 A  
 Rack mount ..... No  
 Enclosure type ..... Plastic  
 Enclosure dimensions ..... 1.0" H x 2.3" W x 3.6" D  
 2.5 cm H x 5.8 cm W x 9.1 cm D (Depth excludes connectors.)  
 Product / Shipping weight ..... 0.5 lbs (0.2 kg) / 2 lbs (1 kg)



### MODEL

### VERSION DESCRIPTION

### PART #

VSS 100	Video Sync Separator	60-462-01
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