

# INNOVATION By ISIS



The INNOVATION Super Switch with BNC connectors offers reliable performance from VGA through QSXGA formats. Professionals who chose INNOVATION RGBHV switchers asked for a version with BNC connectors. They wanted the same reliability, performance and cost-effectiveness for fixed installations where long cable runs made the BNC connectors easier to use, and where footprint was less important. Still easy to install, this version is perfect for conference rooms and studios. Trust ISIS support and full seven-year warranty to deliver solid results for years to come.

Each INNOVATION RGBHV switcher is based on a flexible design. Cells in each frame hold universal redundant power supplies. Hot swap any board or power supply from the front of the frame. Modular design lets users select the right configuration – RGBHV, RGB, YUV, etc. Each switcher supports a local X-Y or multiple single bus remote control panels, or the INNOVATION graphical user interface (GUI). The RS232 protocol makes external interfacing and customized control of the switchers simple, fast, and reliable. Applications include live events, permanent stadium and theater installations, command and control centers, and video wall displays.

## RGBHV 16x16 BNC Super Switch



### FEATURES:

- **BNC I/O Connectors**
- **Designed specifically for multimedia and presentation systems**
- **Cost-effective RGBHV, VGA to QSXGA (2560 x 2048) switching**
- **Professional performance at any resolution**
- **Hot swap front-loading modules**
- **Flexible Ethernet and RS232 based control system**
- **Standard system configuration of 16x16 with optional analog or digital audio**

**We take your success personally**

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Video/Audio Signal Management

# RGBHV 16x16 BNC Super Switch

## Typical Video Specifications

### Video inputs:

Inputs: 16  
 Impedance: 75Ω, 0.1% terminating  
 Coupling: DC  
 Connector type: BNC  
 RGB Level: 0.5V to 2V p-p maximum  
 HV Level: 0.5V to 3V p-p maximum

### Video outputs:

Number: 1 per bus  
 Connector type: BNC  
 Impedance: 75Ω, 0.1%, source terminated  
 RGB Level: 0.5V to 2V p-p maximum  
 HV Level: 0.5V to 3V p-p maximum

### Signal Integrity:

Gain: Unity ±0.1 dB  
 Freq response: ±0.1dB to 5mHz, -3dB bandwidth to 400 mHz  
 Resolutions: Supports all graphics standards: from VGA to QSXGA (2560x2048)  
 Slew rate: 500V/usec  
 Ringing amplitude: 1% overshoot maximum  
 Ringing duration: <2ns  
 Horizontal tilt: <0.25%  
 Vertical tilt: <0.25%  
 Crosstalk isolation: 60dB to 10mHz  
 Propagation delay: <5ns typical  
 In/In delay scatter: ±0.5ns  
 In/In gain scatter: ±0.05% ref unity  
 DC offset: <25mV  
 SNR: -70dB, 5mHz bandwidth, 1.0Vp-p video to RMS noise

## Typical Analog Audio Specifications

### Audio inputs:

Number: 16  
 Audio inputs: Dual (stereo) channels (balanced or unbalanced)  
 Connector type: Removable three pin Weco connector  
 Impedance: 20kΩ (600Ω input versions available)  
 Signal Level: +26dBu, maximum  
 CMRR: 60dB to 1kHz

### Audio outputs:

Number: One dual (stereo) (balanced or unbalanced) per bus  
 Signal type: Balanced  
 Connector type: Removable three pin Weco per output  
 Impedance: <30Ω (600Ω version available)  
 Level: +26dBu, maximum

### Performance:

Freq response: ±0.1dB to 20kHz, ref 1kHz  
 Crosstalk: 90dB @ 10kHz, worst case  
 DC offset: <50mV  
 SNR: <100dB, 20Hz to 20kHz  
 IM/THD: <0.02%

## Typical AES/EBU Audio Specifications

### AES/EBU inputs:

Number: 16  
 Connector type: Removable three pin Weco  
 Impedance: 110Ω balanced, AC coupled  
 CMR: ±25V  
 Level: 0.5 to 10V p-p

### AES/EBU outputs:

Number: 1 per bus  
 Connector type: Removable three pin Weco  
 Impedance: 110Ω balanced  
 Level: 4V p-p  
 Jitter: < ±0.5ns p-p (+input jitter)

## Electrical / Physical / Environmental

### Electrical:

Input power: Switch selectable 90 to 130VAC or 200 to 265VAC  
 Frequency: 47 to 63 Hz  
 Consumption: 16x16 30Va max, fan cooling  
 Compliance: UL listed, CE, FCC-Part 15 class B RoHS

### Physical:

Dimensions: 16x16 housed in 5RU frame (19 x 8.75 x 12.5 in)  
 Weight: 16x16 - 23 lbs ( 10.5 Kg)  
 Control panel cradle w/panel - 6 lbs (2.7 Kg)

### Environmental:

Operating temperature: 0 to 40° C  
 Humidity: 90% non-condensing

Your local ISIS Group Distributor: