

INNOVATION By ISIS



RGBHV Routing Switcher

The **INNOVATION series** offers reliable performance on the road. Rugged design and compact size make them ideal for event management. The combination of flexibility, reliability, and great price cause the most demanding systems integrators, event managers, and users to choose ISIS. They trust ISIS support and full seven-year warranty to deliver solid results for years to come.

INNOVATION switchers are not broadcast routers adapted to multimedia applications, but are designed to meet the specific requirements of the multimedia industry. HD15 connectors, instead of the BNC connectors used by many, save space, connect to computers and peripherals without adaptors, and resist breaks. This improvement saves hours of setup time, makes installation easy, reduces risks, and improves system performance.

Each INNOVATION RGBHV switcher is based on a rugged frame 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 and a wide range of sizes let users select the right configuration. Each switcher supports a local X-Y or multiple remote control panels. The RS232 protocol is designed to make 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 switchers.

FEATURES:

- **Designed specifically for multimedia and presentation systems**
- **Cost-effective RGBHV, VGA to QXGA switching**
- **Professional performance at any resolution**
- **Hot swap front-loading modules**
- **Flexible Ethernet and RS232 based control system**
- **Less than half the size and price of competing switchers**
- **Rugged construction to meet the demands of live events**
- **Standard system configuration of 32x32 (call for custom configurations)**
- **Analog audio levels available**

We take your success personally

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Typical Video Specifications

Video inputs:

Inputs:	32
Impedance:	75Ω, 0.1% terminating
Coupling:	DC
Connector type:	HD-15
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:	HD-15
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 250mHz
Resolutions:	Supports all graphics standards: from VGA to QXGA
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:	32
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%

Electrical / Physical / Environmental

Electrical:

Input power:	Switch selectable 90 to 130VAC or 200 to 265VAC
Frequency:	47 to 63 Hz
Consumption:	32x32 80Va max, fan module cooling
Compliance:	UL listed, CE, FCC-Part 15 class B

Physical:

Dimensions:	32x32 housed in 4RU frame
Weight:	32x32 - 39 lbs (17.6 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: