Complete System Switcher and Controller



ROOM NAVIGATOR







DESCRIPTION

THE AUDIO VIDEO SWITCHER

The Room Navigator is a multi-video format A/V switcher and control system in a box. It is an affordable solution for single display A/V installations in classrooms, boardrooms, conference rooms and multimedia environments.

The Room Navigator rack unit contains 3 video switchers—a 4x1 RGBHV switch, an 8x1 Composite Video Switch and an 8x1 S-Video Switch. The HD-15 inputs 1 through 4 can be Composite and S-Video or Computer. Inputs 5 through 8 can be used simultaneously for Composite Video and S-Video. In addition, there is an 8x1 stereo audio switcher that supports balanced or unbalanced audio. The 8 audio inputs can be assigned to any of the video inputs.

DEVICE AND ROOM CONTROL

The Room Navigator also incorporates a configurable control system with 4 serial ports, 4 IR ports with a learner, and 4 dry contact closures. These can be used to control sources, DVD players, VCR's, set top boxes, projectors or other display devices. They can also be used to control window treatments, screens or anything else that your installation requires.

REMOTE CONTROL

The Room Navigator can be remotely controlled with one of two wall plates, via RS-232 or a built-in IP Port with integrated web server. The basic wall plate provides volume control, audio and projector mute, source selection and 6 user definable buttons.

The advanced wall plate provides an additional 6 user definable buttons, a set of transport control buttons, and a set of menu navigation keys. The basic wall plate fits a standard 2-gang opening and the advanced wall plate fits a 4-gang opening.

OPTIONAL ACCESSORIES

- Indie 300 scaler for seamless switching and higher quality video.
- CI-5 or CI-5UT Computer Interface
- VWP-1 Video and Audio Interface
- WB-3G and WB-4G Locking Wall Boxes
- Recessed Wall Mounting Brackets for Control Plates

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LIT1078

FEATURES

Small size, 1 rack unit

4x1 RGBHV Switching

8x1 Composite Switching

8x1 S-Video Switching

Note: Inputs 1-4 are multi-purpose connectors and can be used for either RGBHV or Composite and S-Video (Composite and S-Video may be used simultaneously).

8x1 Stereo Audio Switching

- · Audio Input Trim
- · Full Range Volume Control

Device Control

- · 4 Serial Ports
- · 4 IR Ports
- · 4 Contact Closures

Easy Set-Up

· Simple GUI Interface

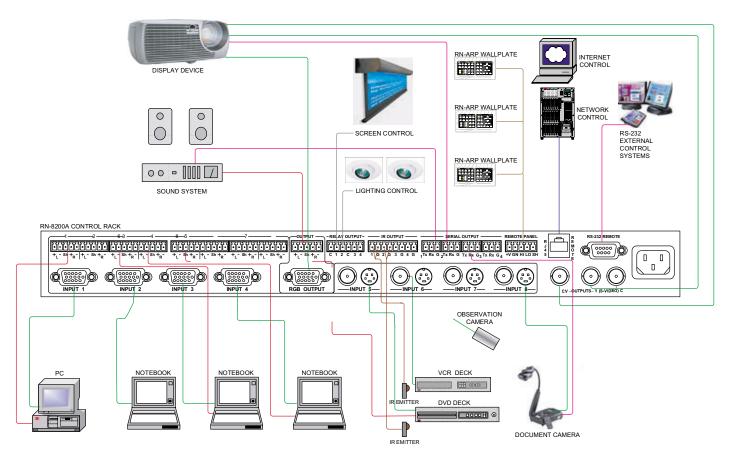
Remote Control

- · 2 Wall Plate styles are available
- · RS-232
- · IP with integrated Web Server

APPLICATIONS

- · Classrooms
- · Meeting Rooms
- · Training Facilities
- · Lecture Halls
- · Boardrooms

TYPICAL APPLICATIONS DIAGRAM





SPECIFICATIONS

Video Inputs

Number and Connector Inputs 1-4 HD-15 Female

Inputs 5-8 1 Each BNC Female and 4 Pin DIN

Formats Supported Inputs 1-4 Composite Video, S- Video and RGBHV

Inputs 5-8 Composite Video (BNC Input), S-Video (4 Pin DIN input)

Video Standards NTSC, PAL, SECAM

Signal Level

RGB Nominal: 0.7V

Maximum: +/- 1.3V with no offset

HV Sync Nominal: 2V Maximum: 5.0V

Composite Nominal: 1V

Maximum: +/- 2.0V with no offset

S-Video Nominal: Y – 1V

C - 0.3V

Maximum: +/- 2.0V with no offset

DC Offset (Maximum)

RGB +/-20mv with input at 0V offset
Composite +/- 5mv with input at 0V offset
S-Video +/- 5mv with input at 0V offset
Hipput Impedance 75 Ohms for all input types
Bandwidth 275 MHz (+/- 3dB) fully loaded

Flatness +/- 3dB Gain Unity

Crosstalk

RGB -70dB @ 5MHz, -45dB @ 100MHz

Composite -52dB @ 10MHz S-Video -52dB @ 10MHz

Differential Phase Error <0.1
Differential Gain Error <0.1%

Video Outputs

Number and Connector Output 1 HD-15 Female (RGBHV)

Output 2 BNC Female (Composite Video)

Output 3 4 Pin DIN (S-Video)

Specifications

Nominal Level

RGB 0.7V p-p

HV Sync 5.0V p-p unterminated + or - Polarity based on input

Composite 0.3V p-pS-Video Y - 0.3V p-pC - 0.3V p-p

Impedance 75 Ohms for all outputs

Return Loss

RGB <-55dB @ 0 -5 MHz Composite <-30dB @ 0 -5 MHz S-Video <-30dB @ 0 -5 MHz

DC Offset +/- 30mV with input at 0V offset

Sync

Input Level 2.0 V to 5.0V (TTL)

Input Impedance 511 Ohms
Output Impedance 75 Ohms
Max. Propagation delay 20ns
Max. Rise/fall time 2ns

Polarity positive or negative depending on input

Audio Inputs

Number and Connector Four 10 Position Pluggable Screw Terminals 8

Balanced or unbalanced stereo Туре Impedance

10K Ohms, unbalanced

Level Nominal 0 dBu Maximum +16 dBu

Input Gain Adjustment -45 dB to +5 dB Input Trim Adjustment -5 to +15dB

Audio Output

Type

Impedance

Number and Connector 5 Position Pluggable Screw Terminal

Balanced or unbalanced, stereo or mono

50 Ohm

Level Nominal +6 dBu +22 dBu Maximum

Gain -45 to +5 dB

Remote Control

Number and Connector Computer Interface 1 9 Pin D-Sub

> Wall Plate Interface 1 5 Position Pluggable Screw Terminal

Network

Standards

Comp. Int. RS-232C Wall Plate RS-485 Network 10 base T

Network Protocols TCP/IP, SMTP, ARP, DHCP, HTTP, ICMP, Telnet

Device Control

Number and Connector 3 Pin Pluggable Screw Terminal Serial

IR 4 2 Pin Pluggable Screw Terminal Relay 4 2 Pin Pluggable Screw Terminal

Specifications

Serial RS-232C TX, RX GND

IR Learner located on front panel

Relay 1A @ +24V

General

Power 100 to 220VAC, 50/60Hz, 25 Watts

Enclosure Type Metal Main Unit Dimensions and Mounting

> 1.72" Н W 17.25 D 9.94"

Mounting Rack

Basic Wall Plate

4.59" Н 4.66" W 1.20" D

Mounting 2 Gang Plate

Advanced Wall Plate

Н 4.59" W 8.28" D 1.20"

Mounting 4 Gang Plate

Shipping Weight

Main Unit 14.5 lbs. Basic Wall Plate 1.7 lbs. Adv. Wall Plate 2.3 lbs. Approval Listings UL, CSA

Compliances FCC Class A, CE **MTBF** 60.000 Hours Warranty 3 years

