

ROOM NAVIGATOR

Complete System Switcher and Controller

FSR

Video Products Group

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

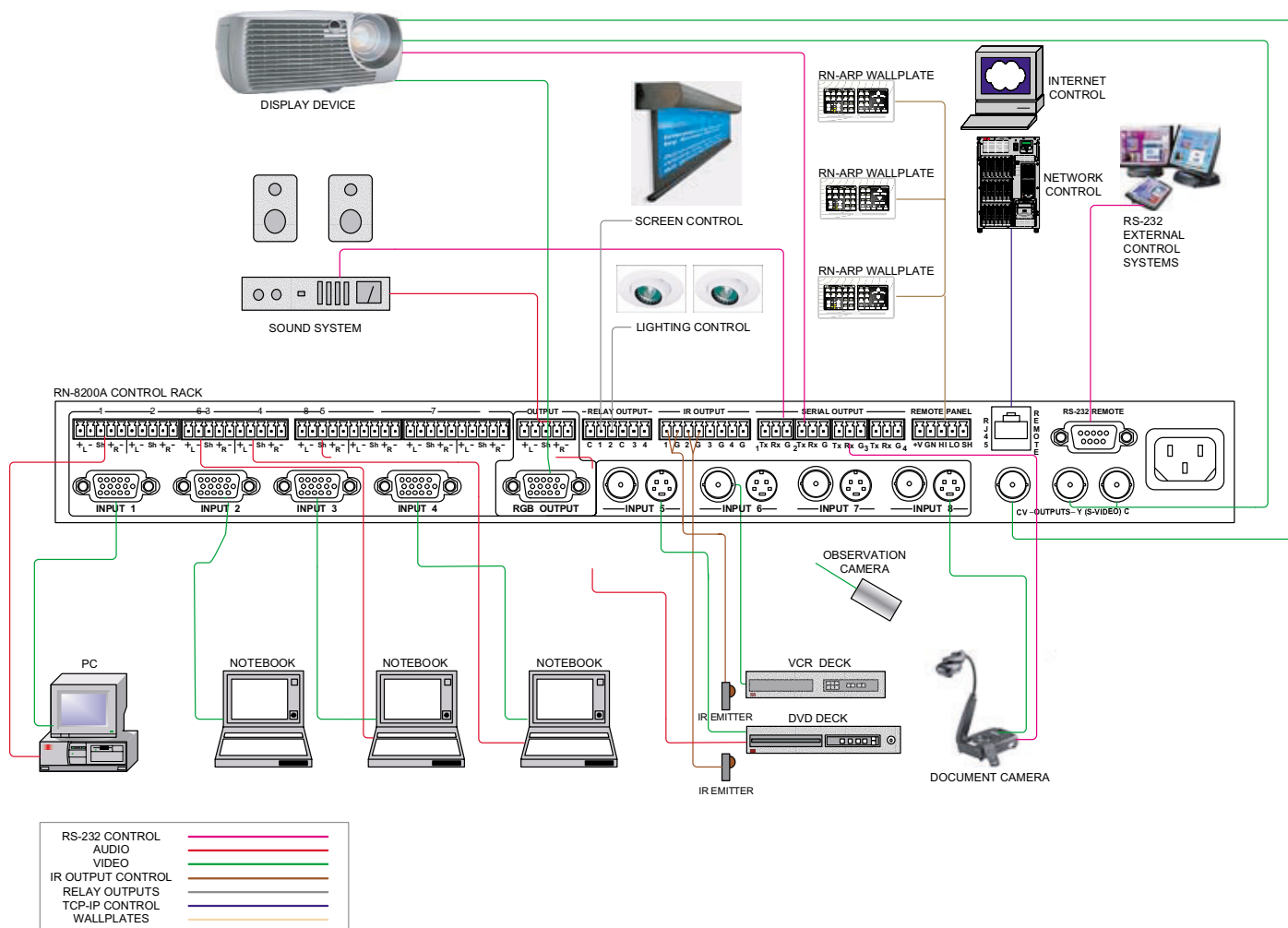
Remote Control

- 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
Input 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-p
	S-Video	Y – 0.3V p-p C – 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	8	Four 10 Position Pluggable Screw Terminals
Type		Balanced or unbalanced stereo
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

Number and Connector	1	5 Position Pluggable Screw Terminal
Type		Balanced or unbalanced, stereo or mono
Impedance		50 Ohm
Level	Nominal	+6 dBu
	Maximum	+22 dBu
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	1	RJ-45
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	Serial	4	3 Pin Pluggable Screw Terminal
	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		
Dimensions and Mounting	Main Unit		
	H	1.72"	
	W	17.25"	
	D	9.94"	
	Mounting	Rack	
	Basic Wall Plate		
	H	4.59"	
	W	4.66"	
	D	1.20"	
	Mounting	2 Gang Plate	
	Advanced Wall Plate		
	H	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		

Specifications are subject
to change without notice.



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