

RN-410 SERIES

**Affordable, Easy to Use,
Audio Video Switchers**

FSR

Video Products Group

RN-410 Series



DESCRIPTION

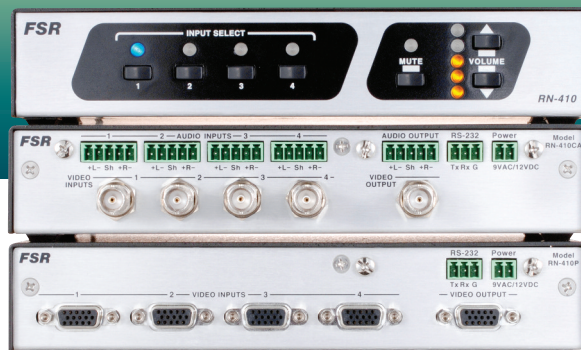
The RN-410 4x1 video and stereo audio switchers are members of the Room Navigator Family of switching and control products. Used stand alone or in conjunction with the RN-1000 or RN-8200, these switchers provide video and audio switching in an affordable and easy to use package.

The RN-410 switchers are available for composite and RGB. In addition to simple audio switching, the RN-410's provide audio input trim and output volume control with a true mute. Control is provided through the front button panel or remotely via the RS-232 port using a simple ASCII command set.

The RN-410's ship as a complete solution with the rack mount kit and power supply in the box.

Available Models

RN-410CA	Composite Video and Stereo Audio
RN-410P	Computer Video (RGBHV)
RN-410PA	Computer Video and Stereo Audio



RN-410 Rear Panel Views

FEATURES

- Affordable
- Ultra high bandwidth
- Easy to use
- Select models with and without stereo audio
- RS-232 or front panel control
- Audio breakaway capability via RS-232
- Independent audio input trim controls
- Audio output level adjust and muting
- Rack mount kit and power supply included

APPLICATIONS

- Classrooms
- Boardrooms
- Houses of Worship
- Rental and Staging

FSR Inc.

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TECHNICAL SPECIFICATIONS

VIDEO INPUT

MODEL	RN-410CA	RN-410P /PA
SIGNAL TYPE	COMPOSITE	RGB
CONNECTOR NUMBER/TYPE	4 BNC FEMALE	4 HD-15 FEMALE
IMPEDANCE	75 OHM	
LEVEL	1 VOLT P/P	
VSWR	<1.3@100 MHz	<1.1@250 MHz
ISOLATION	>80dB@10 MHz >63dB@100 MHz	>80dB@10 MHz >65dB@100 MHz
DIFFERENTIAL PHASE	0.05 degrees	NA
DIFFERENTIAL GAIN	0.02%	NA

VIDEO OUTPUT

MODEL	RN-410CA	RN-410P /PA
SIGNAL TYPE	COMPOSITE	RGB
CONNECTOR NUMBER/TYPE	1 BNC FEMALE	1 HD-15 FEMALE
IMPEDANCE	75 OHM	
GAIN	UNITY INTO 75 OHMS	
OFFSET	+/-4mV TYPICAL +/-15mV MAX	15mV MAX
BANDWIDTH	500 MHz	450 MHz
FLATNESS	+/- .25dB to 100 MHz	+/-0.25dB 0 to 150 MHz +/-1dB 150 to 400 MHz

AUDIO

BANDWIDTH	20 Hz to 20 kHz (+/- 0.1dB)
THD+NOISE	0.1% @20 kHz at rated max output
NOISE FLOOR	<-90dBu
CHANNEL SEPARATION	<-85dB @ 1 kHz

AUDIO INPUTS

SIGNAL TYPE	4 stereo balanced (may be used with unbalanced sources)
CONNECTOR NUMBER/TYPE	5 pin pluggable screw terminal
IMPEDANCE	20k ohms balanced
TRIM RANGE	-15dB to +5dB in 1dB steps
GAIN RANGE	-45dB to +5dB in 1dB steps

AUDIO OUTPUT

NUMBER/TYPE	1 stereo balanced or unbalanced
CONNECTOR NUMBER/TYPE	One 5 pin pluggable screw terminal
IMPEDANCE	50 ohms
MAXIMUM LEVEL	600 ohms: +12dBm balanced / +6dBm unbalanced HI-Z: +14dBm balanced / +8dBm unbalanced

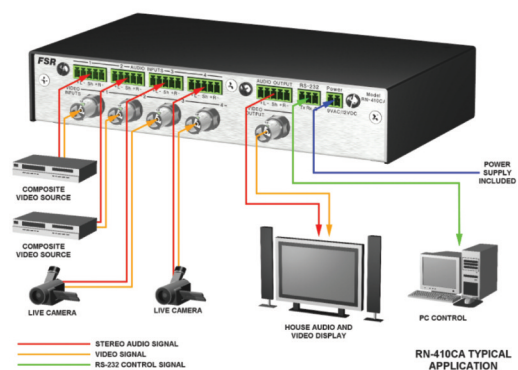
SYNC

(RN-410P /PA only)

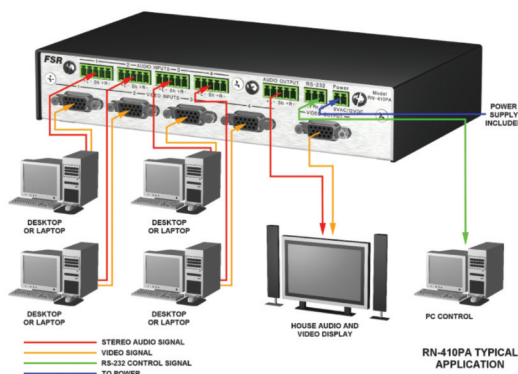
INPUT IMPEDANCE	511 ohms
OUTPUT IMPEDANCE	75 ohms
INPUT LEVEL	TTL 2.0 V minimum
OUTPUT LEVEL	5 V into HI-Z / 2.4 V into 75 ohms
OUTPUT RISE AND FALL TIME	1nS
PROPAGATION DELAY	16nS

POWER AND PHYSICAL

POWER	12VDC@750mA (FSR #26529 Energy Star Power Supply included)
CONNECTOR TYPE	2 pin pluggable screw terminals
MOUNTING	Standard 19" rack mount included
SHIPPING WEIGHT	3 lbs.



RN-410CA TYPICAL APPLICATION



RN-410PA TYPICAL APPLICATION

Specifications
are subject to
change without
notice.



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