

RN-410 SERIES

Affordable, easy to use
Audio Video Switchers

FSR

Video Products Group

RN-410 SERIES



DESCRIPTION:

The RN-410 series, also known as the switching group of the Room Navigator family are 4X1 audio video switchers. S-Video, composite, component and RGB models are available to fit your application. All models can be controlled from the front panel or remotely via RS-232. They are housed in 1RU high, 1/2 rack wide cases with front panels, similar to the Room Navigator.

Available models:

- **RN-410YA** 4X1 Component Video with Audio
- **RN-410CA** 4X1 Composite Video with Audio
- **RN-410P** 4X1 HD-15 RGBHV
- **RN-410PA** 4X1 HD-15 RGBHV with Audio (not shown)
- **RN-410SA** 4X1 S-Video with Audio

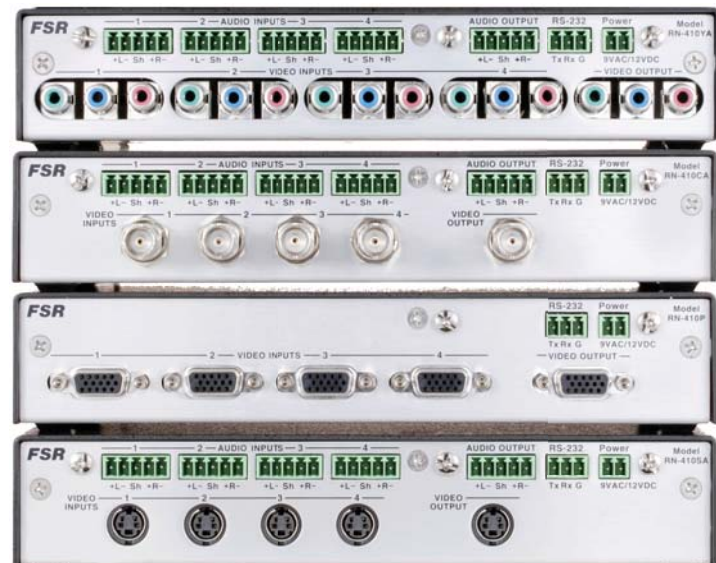
FEATURES:

- 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

RN-410 REAR PANEL VIEWS



(RN-410PA not pictured)

FSR Inc.

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TECHNICAL SPECIFICATIONS

VIDEO INPUT

MODEL	RN-410YA	RN-410CA	RN-410P /PA	RN-410SA
SIGNAL TYPE	COMPONENT	COMPOSITE	RGB	S-VIDEO
CONNECTOR NUMBER/TYPE	4X3 RCA FEMALE	4 BNC FEMALE	4 HD-15 FEMALE	4-4 PIN FEMALE DIN
IMPEDANCE	75 OHM			
LEVEL	1 VOLT P/P			
VSWR	<1.1@250MHz	<1.3@100MHz	<1.1@250MHz	<1.3@100MHz
ISOLATION	>80dB@10MHz >65dB@100MHz	>80dB@10MHz >63dB@100MHz	>80dB@10MHz >65dB@100MHz	>80dB@10MHz >63dB@100MHz
DIFFERENTIAL PHASE	NA	0.05 degrees	NA	0.05 degrees
DIFFERENTIAL GAIN	NA	0.02%	NA	0.02%

VIDEO OUTPUT

MODEL	RN-410YA	RN-410CA	RN-410P /PA	RN-410SA
SIGNAL TYPE	COMPONENT	COMPOSITE	RGB	S-VIDEO
CONNECTOR NUMBER/TYPE	1X3 RCA FEMALE	1 BNC FEMALE	1 HD-15 FEMALE	1-4 PIN FEMALE DIN
IMPEDANCE	75 OHM			
GAIN	UNITY INTO 75 OHMS			
OFFSET	15mV MAX	+/-4mV TYPICAL +/-15mV MAX	15mV MAX	+/-4mV TYPICAL +/-15mV MAX
BANDWIDTH	450 MHz	500 MHz	450MHz	500 MHz
FLATNESS	+/-0.25dB 0 to 150MHz +/-1dB 150 to 400 MHz	+/-0.25dB to 100MHz	+/-0.25dB 0 TO 150MHz +/-1dB 150 TO 400 MHz	+/-0.25dB to 100MHz

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 @ 1kHz

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

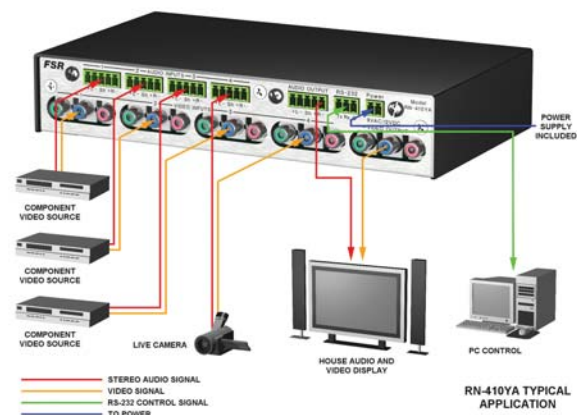
NUMBER/TYPE	1 stereo balanced or unbalanced
CONNECTOR NUMBER/TYPE	One 5 pin pluggable screw terminal
IMPEDANCE	50 ohms
MAXIMUM LEVEL	600 ohms: +12dBm balanced / +6dBm unbalanced HI-Z: +14dBm balanced / +8dBm unbalanced

SYNC (RN-410P /PA only)

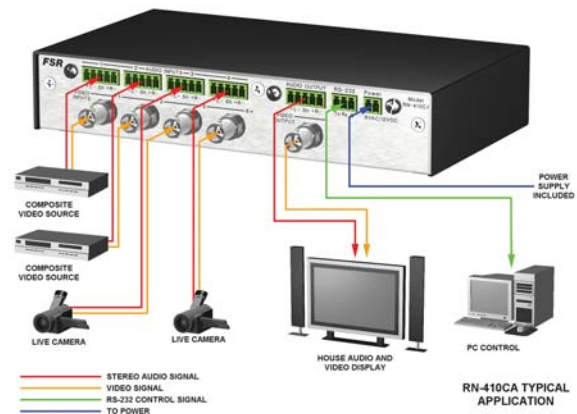
INPUT IMPEDANCE	511 ohms
OUTPUT IMPEDANCE	75 ohms
INPUT LEVEL	TTL 2.0 V minimum
OUTPUT LEVEL	5 V into HI-Z / 2.4 V into 75 ohms
OUTPUT RISE AND FALL TIME	1nS
PROPAGATION DELAY	16nS

POWER AND PHYSICAL

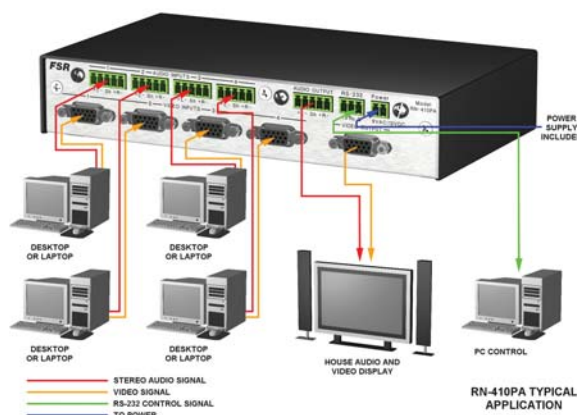
POWER	9 VAC @500mA power supply included or 12VDC @ 300mA
CONNECTOR TYPE	2 pin pluggable screw terminals
MOUNTING	Standard 19" rack mount included
SHIPPING WEIGHT	3 lbs.



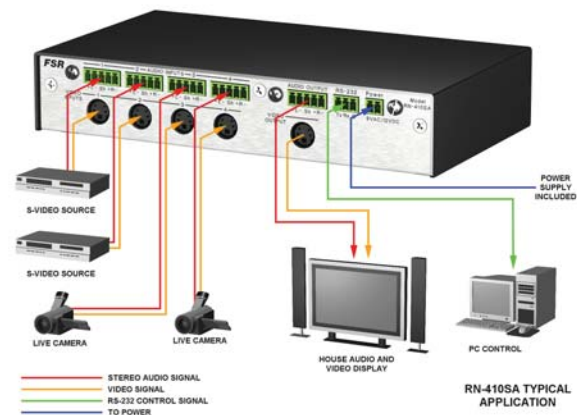
RN-410YA TYPICAL APPLICATION



RN-410CA TYPICAL APPLICATION



RN-410PA TYPICAL APPLICATION



RN-410SA TYPICAL APPLICATION

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