



## Model R-175 Vertical Interval Switch



### Installation

Connect the **COM** outputs on the R175 to your equipment's inputs.

Connect your primary audio/video signal sources to the **PRI** inputs on the R175.

Connect your secondary audio/video signal sources to the **SEC** inputs on the R175.

Screw the wires from the supplied power pack to the two connector power input on the rear of the unit.

A TTL level control signal or a debounced dry contact across **GND** and **SET** on the **EXT CTRL** connector will change the output from the primary to the secondary, *if* a baseband video signal of at least 0 dB is present at primary input.

### Relay Connection

Connect the normally open (NO) contact to **SET**.

Connect the relay common (COM) to **GND**.

### Open Collector:

Connect your transistor's collector to **SET** and the transistor's emitter to **GND**.

### Operation

The R175's primary (PRI) inputs are normally connected to the common (COM) outputs. It remains in this state until the SET input is connected to GND, and a baseband video signal of at least 0 dB is present at the primary input. The unit will switch during the vertical blanking interval of the video signal. This connects the secondary (SEC) input to common (COM) for the duration of the connection. The LEDs on the front panel, when lit, indicate which input is connected to the output.

### Specifications

#### Video

75 ohms ; 'BNC' connectors  
>80 dB isolation at 5 MHz

#### Video Return Loss

> 25dB

#### Audio

Balanced stereo; screw terminals;  
>90 dB isolation

#### Control Input

1 mA maximum to GND.

#### Power Requirement

117VAC  $\pm$ 10%, 60 Hz.  
Power pack output; 12 VAC

#### Physical

1.75"H x 19"W x 4"D  
Weight 2 lbs.

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