



# A/V & IF/RF Relay Panel

model  
R174A

## Specifications

### RF Isolation:

>60 dBmV @ 950 MHz

### Attenuation:

+/- 1 dBmV to 750 MHz

### Power Requirement:

+12 VDC @220 mA maximum  
(Monroe Model 427A UL/CSA  
approved wall supply)

### Control Inputs

#### Contact Closure:

Absolute Maximum Input Voltage 5  
VDC

Logical High Input Voltage:

>3.5 VDC Minimum

Logical Low Input Voltage:

<1.5 VDC Maximum

#### Serial Input:

Each unit (up to 15 maximum) is  
individually addressable  
RS-485, 2 wires plus ground  
SWITCHWARE®software, DOS  
based

#### DTMF Tone Input:

Unbalanced, 10kΩ impedance input  
1 for each switch assembly

#### Control Output:

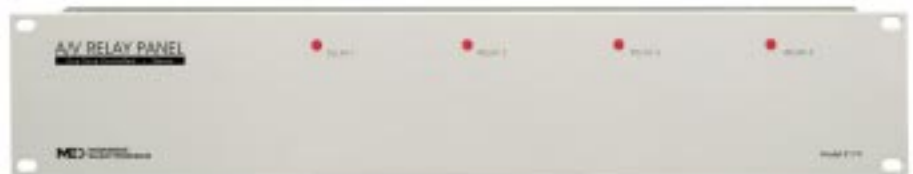
Single open collector to ground, 30  
Volt 30 mA one for each switch  
assembly

#### Physical:

3.5" H X 3" D X 19" W, 1RU  
3 lbs.

## Features

- Low power control inputs
- Front panel status indicators
- All interconnections made at rear panel
- Screw terminals for Stereo Audio and BNC connectors for Video and IF/RF for low loss
- Contact Closure, Cue Tone or SWITCHWARE® software for activation
- Up to 32 devices may be controlled by one PC
- Individual Cue Tone Decoders



## Applications

- Non-Duplication Switching
- Blackout Switching
- Routing Switching
- Up to 5x1 Matrix Switching
- Start VCR or Digital Ad Insertion

## Description

The Model R174A Audio/Video Relay Panel provides four, independent 2x1 (A/B) balanced stereo audio follow video relay switches. They may be controlled by Monroe Electronics' program timers, remote controls or CATV Cue Tone® receivers via contact closures or logic inputs.

They may also be controlled individually or in groups via an RS-485 interface. SWITCHWARE®, an optional DOS based software, is supplied for this purpose, and allows up to 32 panels to be controlled via one PC.

Each video relay will also function as a high quality IF/RF 2 x 1 A/B switch, with frequency response to 950 MHz.

Each A/V switch has an individual, separately programmable DTMF® (Cue Tone) switch to turn the relay on or off. The ON command pulses a relay output to start a VCR or signal a Digital Ad insertion system.

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