



## PRODUCT SPECIFICATION

**MODELS:** V1332AF AND V2332AF SERIES

**PRODUCT CODE:** REFER TO TABLE 1

**DESCRIPTION:** RELAY/AUDIO-FOLLOW-VIDEO SWITCHERS

- Switches audio at same time as video
- 32 balanced inputs
- Monaural or stereo
- Cascadable

The V1332AF and V2332AF Series Relay/Audio-Follow-Video Switchers are microprocessor-controlled units that allow audio devices associated with video systems to be switched at the same time as the video. All models provide passive relay-based audio switching. In the following specification, the model number V1332AF will be used to refer to all models unless specified otherwise.

This series of relay switchers is compatible with Matrix 44™ and Matrix 66™ switchers and with Nova™ VPS™1300, VPS1344, and VPS328 digital control systems. In a typical application, the audio signal from an intercom microphone associated with a video camera can be switched to a speaker at the guard station at the same time the video is switched to the guard's monitor.

Two basic models of the relay switcher are available: the V1332AF provides 32 balanced monaural inputs, while model V2332AF provides 32 balanced stereo inputs. Each input/output of the V1332AF has two relay contacts. The V2332AF supports stereophonic audio systems or other systems requiring four contacts to be active at each switch. Input/output proportions are configured by setting internal jumpers, and include the following combinations:

V1332AF:  
32 inputs, 1 output, mono-balanced;  
16 inputs, 2 outputs, mono-balanced;  
8 inputs, 4 outputs, mono-balanced;

V2332AF:  
32 inputs, 1 output, stereo-balanced;  
16 inputs, 2 outputs, stereo-balanced; 8 inputs, 4 outputs,  
stereo-balanced.

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V1332AF SWITCHER

Multiple relay switchers may be cascaded, and the provision of a combiner circuit enables them to be used with switching systems of more than 256 cameras. Relay connections are made via convenient detachable screw terminal blocks.

Both inputs and outputs are balanced to provide maximum hum and noise rejection. Unit specifications have been designed for a high-fidelity range and include:

- crosstalk: better than -70 dB at 20 kHz;
- frequency response: flat within 0.3 dB from 10 Hz to 20 kHz;
- hum and noise: typically better than -60 dBm.

**TABLE 1  
MODELS AND PRODUCT CODES**

Model	Product Code	Description
V1332AF	4385	32 monaural inputs; 120 V, 60 Hz.
V1332AF-230	4385-01	32 monaural inputs; 230 V, 50 Hz.
V2332AF	4386	32 stereo inputs; 120 V, 60 Hz.
V2332AF-230	4386-01	32 stereo inputs; 230 V, 50 Hz.

## CONTRACTORS' SPECIFICATION

### Relay Audio-Follow-Video Switcher

The relay/audio-follow-video switcher shall provide 32 monaural inputs or 32 stereo inputs. Inputs may be configured as one group of 32, two groups of 16, or four groups of 8. Audio input shall be balanced. Frequency response at 2 V p-p  $\pm 0.3$  dB shall be 10 Hz to 20 kHz, and frequency response at 15 V p-p  $\pm 0.5$  dB shall be 20 Hz to 20 kHz. Bandwidth at 2 V p-p -3dB shall be 0 to 60 kHz, and bandwidth at 15 V p-p -3 dB shall be 0 to 30 kHz. Hum and noise shall be better than -60 dB and crosstalk shall be better than -70 dB at 20 kHz. All relay connections shall be made to detachable screw terminal connectors. The switcher shall be housed in an enclosure designed to be mounted in EIA standard 19-inch (48.3-cm) instrument racks and its weight shall not exceed 9.0 lb (4.1 kg). The relay/audio-follow-video switcher shall be either Vicon's model V1332AF (32 monaural inputs) or V2332AF (32 stereo inputs).

Product specifications subject to change without notice.

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This precise conformity to the highest standards makes the V1332AF relay switcher suitable for virtually any audio application.

Any Vicon Nova digital control can supply the V1332AF with the information necessary to relay the signal from a source to

an output. In the standard configuration, an operator selects a desired source/output combination and enters the assigned numbers into the keypad.

Both models are housed in steel enclosures designed to be mounted in EIA standard 19-inch racks.

## TECHNICAL INFORMATION

### OPERATIONAL

**Inputs to Relays:** V1332AF: 32 balanced monaural.  
V2332AF: 32 balanced stereo.

**Outputs:** V1332AF: 1, 2, or 4 monaural outputs, depending on input configuration.  
V2332AF: 1, 2, or 4 stereo outputs, depending on input configuration.

### ELECTRICAL

**Input Power:** 120 V, 60 Hz.

**Power Consumption:** 15 W.

**Heat Equivalent:** 0.85 btu/min (0.21 cal/min).  
These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

**Fuse:** 120 V models: 0.5 A, 250 V, 5 mm.  
230 V models: 0.5 A, 250 V, 5 mm.

**Relay Inputs:** High impedance, balanced; passive in/out.

**Input/Output Signal:** 70 V p-p maximum.

**Load:** 0.1 A at 30 VAC inductive.  
0.5 A at 30 VAC resistive.

**Frequency Response:** At 2 V p-p  $\pm 0.3$  dB: 10 Hz to 20 kHz.  
At 15 V p-p  $\pm 0.5$  dB: 20 Hz to 20 kHz.

**Bandwidth:** At 2 V p-p -3 dB: 0 to 60 kHz.  
At 15 V p-p -3 dB: 0 to 30 kHz.

**Hum and Noise:** Better than -60 dBm.

**Crosstalk:** Better than -70 dB at 20 kHz.

**Radio-Frequency Emission Standard:** FCC Class A.

### CONNECTORS

**Control Input/Output:** Two (2) 25-pin female D-shell connectors.

**Relay Input:** V1332AF: Four (4) 16-pin removable screw terminal connectors;  
V2332AF: Eight (8) 16-pin removable screw terminal connectors.

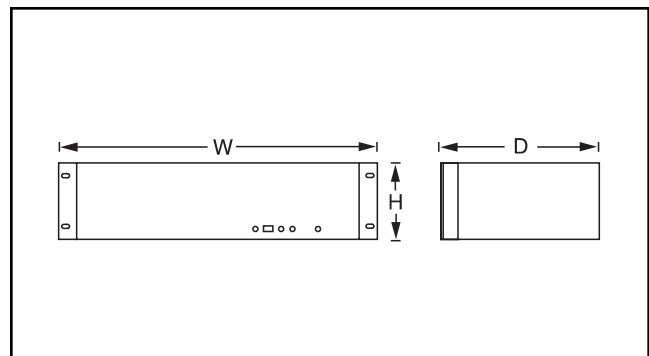
**Relay Output:** One (1) 16-pin removable screw terminal connector  
or two (2) 8-pin removable screw terminal connectors.

**Combiner Input/Output:** Two (2) 25-pin male D-shell connectors.

**Power:** Detachable 3-conductor cable with grounded plug.

### MECHANICAL

**Dimensions:** Height (H): 3.47 in. (89.5 mm).  
Width (W): 19.0 in. (483 mm).  
Depth (D): 7.00 in. (178 mm).



**Weight:** 9.0 lb (4.1 kg).

**Construction:** Steel.

### ENVIRONMENTAL

**Operating Temperature Range:** 32 to 122°F (0 to 50°C).

**Humidity:** Up to 90% relative, noncondensing.