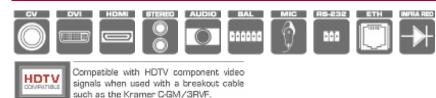


## **VP-28**

14-Input Multi-Format Presentation Switcher with Stereo Audio





The VP-28 is a high-performance multi-format presentation switcher for composite video, HDMI, DVI, DisplayPort, computer graphics video and stereo audio and micrphone signals. The unit operates as a 3x1 composite video, 3x1 HDMI, 3x1 computer graphics video, 3x1 DVI-I, & 2x1 DisplayPort switcher, each with unbalanced stereo audio.

## **FEATURES**

- Max. Data Rate 6.75Gbps (2.25Gbps per graphic channel) (HDMI & DVI).
- HDTV Compatible.
- HDCP Compliant.
- Audio Level Memory Remembers and returns to the last audio level setting during switching.
- Condenser or Dynamic Microphone Button selectable.
- Microphone & Audio Mixing Input selectable master audio output.
- Mic Talkover Mutes master audio output when mic signal is sensed.
- Level Controls Master audio output, microphone input.
- Flexible Control Options Front panel, RS-232, Ethernet & IR (included).
- Front Panel Control Lockout.
- Worldwide Power Supply 100-240V AC.
- Accessory DVI to DVI and VGA breakout cable (included).
- Standard 19" Rack Mount Size 1U. Rack "ears" included.

## **VP-28**

## **TECHNICAL SPECIFICATIONS**

VIDEO INPUTS: 3 composite video on RCA connectors,

3 HDMI connectors,2 DisplayPort connectors,3 PC/DVI on DVI connectors.

AUDIO INPUTS: 1 mic on an XLR connector,

1 mic on a 6.3mm phone jack connector (3mV/10kW condenser/dynamic),

3 CV, 3HDMI, 2 DP, 3 PC audio, 3 DVI, all unbalanced stereo audio on 3.5mm mini jack

connectors.

VIDEO OUTPUTS: 1 composite video on an RCA connector,

1 HDMI connector,1 DisplayPort connector,1 PC/DVI on a DVI connector.

AUDIO OUTPUTS: 1 CV, 1 HDMI, 1 DP, 1 PC audio, 1 DVI, all unbalanced stereo audio on a 3.5mm mini jack

connectors; 1 master balanced stereo audio on a 5-pin terminal block.

MAX. OUTPUT LEVEL: Video: CV: 1.7Vpp, XGA: 2.3Vpp; Audio: Master: 17Vpp from mic, 12.4Vpp from line in, Local

outputs: 8.8Vpp from line inputs.

BANDWIDTH (-3dB): Video: CV: 680MHz, XGA: 290MHz (-4dB 400MHz); Audio: >25kHz.

DIFF. GAIN: Video: CV: 2.5%, XGA: 0.1%.

DIFF. PHASE: CV: 0.4Deg, XGA: 0.1Deg.

K-FACTOR: CV: <0.05%, XGA: <0.05%.

S/N RATIO: Video; CV: 74dB, XGA; 71dB @5MHz; Audio; Master; 81dB from mic (@20mVpp input, 17Vpp

output diff, "A" weighting, XLR microphone), 90 to 95dB from line in ("A" weighting), Local

outputs: 110dB ("A" weighting).

CROSSTALK @1kHz (all Video: CV: -54dB, XGA: -56dB (5MHz); Audio: Master: -70dB, Local outputs: -80dB from line

hostile): ii

CONTROLS (Level

MASTER: <-12 to 70dB from mic, -79 to +15dB from line in.

Range):

COUPLING: Video: CV: DC, XGA: DC; Audio: AC.

AUDIO THD + NOISE: Master: 0.4% from mic, 0.02% from line in ("A" weighting); Local outputs: 0.04% from line in.

AUDIO 2nd HARMONIC: Master: 0.03% from mic, 0.01% from line in; Local outputs: 0.02%.

COMPLIANCE WITH

Supports HDCP.

HDCP STANDARD:

MAXIMUM BANDWIDTH One or two lane (1.65Gbps per lane).

DP TO HDMI:

INDICATOR LEDs: IR.

POWER CONSUMPTION: 90-264V AC, 23VA.

OPERATING  $0^{\circ}$  to +40°C (32° to 104°F).

TEMPERATURE:

STORAGE -40° to +70°C (-40° to 158°F).

TEMPERATURE:

HUMIDITY: 10% to 90%, RHL non-condensing.

DIMENSIONS: 19" x 7.35" x 1U (W, D, H) rack mountable.

WEIGHT: 1.8kg (3.97lbs) approx.

INCLUDED Power cord, rack "ears", Kramer infrared remote control transmitter, Kramer ADC-DM/DF+GF

ACCESSORIES: DVI to DVI and VGA breakout cable.

OPTIONS: Kramer C-MDMA/MGMA DVI/VGA/audio breakout cable.