The VP-28 is a high-performance multi-format presentation switcher for composite video, HDMI, DVI, DisplayPort, computer graphics video and stereo audio and microphone 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 on HDMI connectors, 2 DP on 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, 3 HDMI, 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 on an HDMI connector, 1 DP on a 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 hostile): Video: CV: –54dB, XGA: –56dB (5MHz); Audio: Master: –70dB, Local outputs: –80dB from line in.

CONTROLS (Level Range): MASTER: <-12 to 70dB from mic, –79 to +15dB from line in.

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 HDCP STANDARD: Supports HDCP.

MAXIMUM BANDWIDTH DP to HDMI: One or two lane (1.65Gbps per lane).

INDICATOR LEDS: IR.

POWER CONSUMPTION: 90–264V AC, 23VA.

OPERATING TEMPERATURE: 0° to +55°C (32° to 131°F).

STORAGE TEMPERATURE: –45° to +72°C (~49° to 162°F).

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.

ACCESSORIES: Power cord, rack “ears”, Kramer infrared remote control transmitter, Kramer ADC-DM/DF+GF DVI to DVI and VGA breakout cable.

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