Manuals+ — User Manuals Simplified.

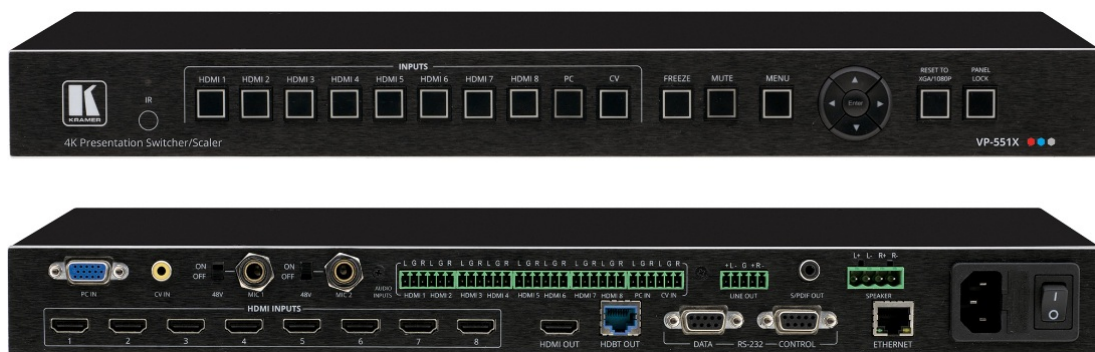# KRAMER VP-551X 10-Input 18G 4K Presentation Switcher-Scaler Owner's Manual

Contents

KRAMER VP-551X 10-Input 18G 4K Presentation Switcher-Scaler

VP-551X
10–Input 18G 4K Presentation
Switcher/Scaler

VP–551X is a versatile, professional presentation scaler/switcher for 4K@60 (4:4:4) HDMI, VGA and composite video signals. The unit scales the video and provides options to use the embedded HDMI audio or to select the companion audio channel from one of ten analog audio input signals. After processing and scaling, the embedded AV signal is sent to the HDMI and the HDBaseT outputs simultaneously, and the audio is also sent to a balanced stereo audio output, S/PDIF digital output and a pair of loudspeakers

FEATURES

High-Performance Switcher/Scaler – Scales HDMI, VGA and Composite video signals for output to two mirrored outputs: HDMI and HDBaseT. Constant output sync prevents signal disruption when switching between inputs and when no video is detected

High-Resolution Video – Supports and scales to/from resolutions up to 4K@60Hz (4:4:4) on the HDMI inputs and output, and 4K@60Hz (4:2:0) on the HDBaseT output. Complies with HDCP 2.2. Supports

HDR10, CEC, xvYCC color (on input), Dolby TrueHD/DTS–HD Master Audio (by–pass), as specified in HDMI 2.0

Professional Video Quality – Provides selectable aspect ratios (full, best fit, over scan, under scan, letter box and pan scan). Includes built–in ProcAmp for color, hue, sharpness, noise, contrast and brightness control. Supports PixPerfect™, Kramer's precision pixel mapping and high–quality scaling technology. High–quality 3:2 and 2:2 pull–down de–interlacing and full up–scaling and down–scaling of all video input signals

Versatile Audio Options – Includes a companion analog audio input for each of the 10 video inputs, enabling the user to embed a separate analog audio channel into each video signal or to bypass an embedded audio input (for example, to support multi–channel, compressed audio formats like Dolby and DTS).
Provides 2 independent microphone inputs on 6.3mm connectors (each with optional 48V phantom power) for mixing, switching or talk–over. On the output, besides the audio embedded on HDMI and HDBaseT outputs, the audio signal is also extracted (de–embedded) and output as balanced stereo analog audio, and as digital audio through an S/PDIF connected device, as well as amplified to 20W per channel for connection to loudspeakers
Powerful Audio Features – Includes DSP with audio equalization, mixing, delay and more
Versatile Powering Options – Receives power from a universal power supply (100–240V AC) and provides PoE power to a compatible HDBaseT device

HDTV Compatible
4K and Legacy Inputs – 8 4K@60 (4:4:4) HDMI inputs, 1 VGA input, and 1 CV (composite video) input
Non-Volatile Memory – Saves final settings before shutdown and retains them for next power up
Convenient Control Options – Local control via front panel buttons (input selection, audio mute, freeze and front panel lock), RS–232, IR remote, and OSD
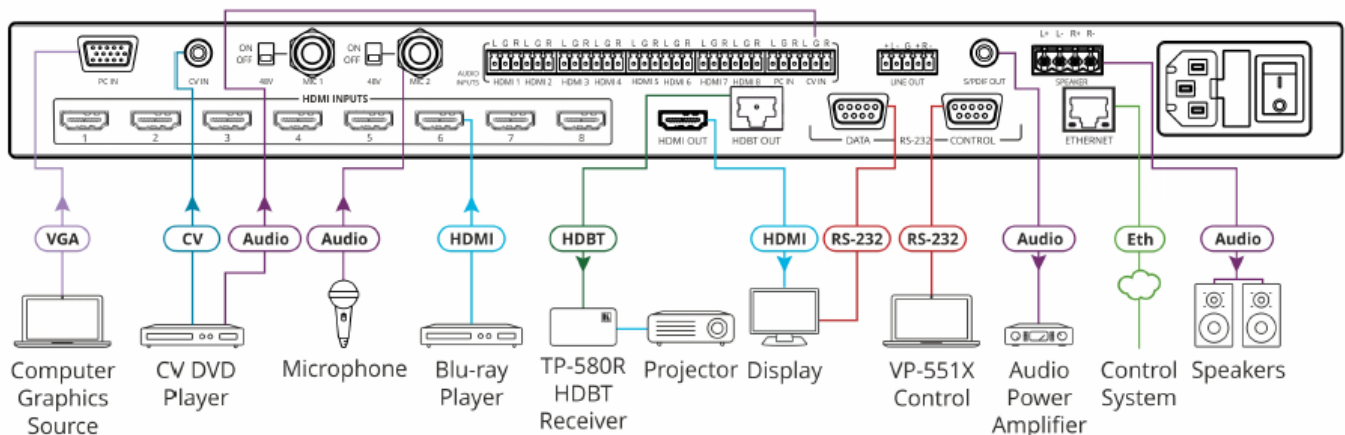**Long–**distance control via Ethernet using embedded web pages
Easy Installation – 19" enclosure for rack mounting a unit in a 1U rack space with included rack ears and universal 100–240V AC power connection

TECHNICAL SPECIFICATIONS

- Inputs
    - 8 HDMI: On female HDMI connectors
    - 1 Computer Graphics: On a 15–pin HD connector
    - 1 Composite Video: On an RCA connector
    - 8 Unbalanced Stereo Analog Audio: On 3–pin terminal blocks (1 to accompany each of the HDMI inputs)
    - 1 Unbalanced Stereo Analog Audio: On a 3–pin terminal block (to accompany the Computer Graphics input)
    - 1 Unbalanced Stereo Analog Audio: On a 3–pin terminal block (to accompany the CV input)
    - 2 Microphone: On 6mm jacks
- Outputs
    - 1 HDBaseT: On an RJ–45 connector
    - 1 HDMI: On a female HDMI connector

- 1 Balanced Analog Stereo Audio: On a 5–pin terminal block
- 1 Digital Audio: On a female S/PDIF connector
- 1 Speaker: On a 4–pin terminal block

- Video
  - Max. HDBT Range 130m (430ft) at 1080p@60Hz 36bpp)
  - 100m (330ft) at 4k @60Hz (4:2:0)
  - Input HDMI Resolutions: 480i/576i, 480p/576p, 640×480@60/72/75/85Hz,
  - 720p@60/50Hz, 800×600@56/60/72/75Hz, 1024×768@60/70/75Hz,
  - 1080i@60/50Hz, 1080p@24/25/30Hz, 1080p@60/50Hz, 1280×1024@60/75Hz,
  - 1280×720@60Hz, 1280×768@60Hz, 1280×800@60Hz, 1280×960@60Hz,
  - 1360×768@60Hz, 1366×768@60Hz, 1400×1050@60Hz, 1600×1200@60Hz,
  - 1600×900@60Hz RB, 1680×1050@60Hz, 1920×1080@60Hz, 1920×1200@60Hz
  - RB, 4K2K@24/25/30/50/60Hz (4:4:4), 4K2K@50/60Hz (4:2:0)
  - Input Computer Graphics Resolutions: 640×480@60/72/75/85Hz,
  - 800×600@56/60/72/75Hz, 1024×768@60/70/75Hz, 1280×1024@60/75Hz,
  - 1280×960@60Hz, 1280×720@60Hz, 1280×768@60Hz, 1280×800@60Hz,
  - 1360×768@60Hz, 1366×768@60Hz, 1400×1050@60Hz, 1600×1200@60Hz,
  - 1680×1050@60Hz, 1920×1080@60Hz, 1920×1200@60Hz RB
  - **Input CV Resolution:** 480I/576i
  - **Output HDMI Resolutions:** 480p@60Hz, 576p@50Hz, 720p@50/60Hz,
  - 1080p@24/25/30/50/60Hz, 640×480@60Hz, 800×600@60Hz, 1024×768@60Hz,
  - 1280×768@60Hz, 1280×720@60Hz, 1280×800@60Hz, 1280×1024@60Hz,
  - 1360×768@60Hz, 1400×1050@60Hz, 1440×900@60Hz, 1600×1200@60Hz,
  - 1680×1050@60Hz, 1920×1080@60Hz, 1920×1200@60Hz RB, 4K/2K@50/60Hz
  - (4:2:0), 4K/2K@24/25/30/50/60Hz (4:4:4)
  - Output HDBaseT Resolutions: Same as HDMI, except for 4K/2K@50Hz, 4K/2K@ 60Hz, which are not supported
  - Max. Input Resolution – HDMI: 4K@60Hz (4:4:4)
  - Max. Input Resolution – VGA: 1080p60 / UXGA
  - Max.Output Resolution- HDMI 4K@60Hz (4:4:4)
  - Max. Output Resolution – HDBaseT: 4K@60Hz (4:2:0)
  - Content Protection: Up to HDCP 2.2
  - HDMI Support HDR10, CEC, xvYCC color (on input), Dolby TrueHD/DTS–HD
  - Master Audio (by–pass), as specified in HDMI 2.0
  - Latency: 1–2 frames

- Ports
  - 1 RS–232 (Data): On a 3–pin terminal block
  - 1 RS–232 (Control): On a 3–pin terminal block
  - 1 Ethernet: 100Mbps, on an RJ–45 connector

- Analog Audio
  - Speaker Output: 2x20W into 4Ω

- User Interface
  - Controls: IR remote, Input selection, freeze, mute, XGA/1080p reset, and panel

- lock buttons, OSD menu
  - Indicators: IR, selected input LEDs
  - Power Source: 100–240V AC 50/60Hz
  - Consumption: 130VA
- Enclosure
  - Size: 19"
  - Type: Aluminum
  - Cooling: Convection ventilation
- Environmental Conditions
  - Operating Temperature: 0° to +40°C (32° to 104°F)
  - Storage Temperature: –40° to +70°C (–40° to 158°F)
  - Humidity: 10% to 90%, RHL non–condensing
- Regulatory Compliance (Standards Compliance)
  - Standards: CE, FCC
- Accessories Included: Power cord, rubber feet, rack ears, IR remote control
- Product Dimensions 43.64cm x 23.72cm x 4.36cm (17.18″ x 9.34″ x 1.72″) W, D, H
- Product Weight 2.3kg (5.1lbs) approx
- Shipping Dimensions 55.00cm x 27.60cm x 10.70cm (21.65″ x 10.87″ x 4.21″) W, D, H
- Shipping Weight 3.4kg (7.5lbs) approx

Documents / Resources

KRAMER VP-551X 10-Input 18G 4K Presentation Switcher-Scaler [pdf] Owner's Manual
VP-551X 10 Input 18G 4K Presentation Switcher-Scaler, VP-551X, 10 Input 18G 4K Presentation Switcher-Scaler, 18G 4K Presentation Switcher-Scaler, 4K Presentation Switcher-Scaler, Switcher-Scaler, Scaler, Switcher