VP-451
18G 4K HDR HDMI ProScale™ Digital Scaler
with HDMI and USB–C Inputs

| HDMI | 4K/60 UHD (4:4:4)

VP–451 is a high–performance 18G 4K digital scaler for HDMI and USB–C signals. The unit up–scales, down–scales, and cross–scales to resolutions up to 4K@60 (4:4:4). The output resolution can be set to automatically follow the native resolution of the sink or set manually to a custom resolution

FEATURES

High–Performance Professional Scaler - Supports HDR10 and HDCP 2.2/1.4, and features input auto–switching, constant sync on the output even if the input video signal is lost or interrupted, and a built–in ProcAmp for convenient signal adjustment

Fast, Smooth Manual and Auto Switching Between Sources - Select the USB Type–C or one of the HDMI inputs, or configure the device to automatically select the active source

Flexible Analog Audio Embedding and Extraction (De–embedding) - The user can select the unbalanced analog audio input to embed into the HDMI output signal. On the output, the user can select to extract the audio signal and output it as balanced analog audio

USB-C Powering - Provides up to 60W of power via the USB–C input

Automatic Display Control - Supports CEC that enables automatically turning the display on and off

Convenient Unit Control - Control the unit using an OSD (On–Screen Display) via front panel buttons and input selector, video freeze and resolution reset front panel buttons. Additionally, connect to the contact closure connector for remote switching of sources. All settings are saved in non–volatile memory

User–Friendly Operation - LED indicator for each input and for power status. Local firmware upgrade via the USB type–A port ensures lasting, field–proven deployment

Easy Installation - Compact MegaTOOLS® fan–less enclosure for surface mounting or side–by–side mounting of 2 units in a 1U rack space with the recommended rack adapter

TECHNICAL SPECIFICATIONS

Eingang	2 HDMI: On female HDMI connectors
	1 USB-C: On a female USB–C connector (DP Alternate Mode)
	1 Unbalanced Stereo Audio: On a 3.5mm mini jack
Ausgang	1 HDMI: On a female HDMI connector
	1 Balanced Analog Stereo Audio: On a 5–pin terminal block
Datenports	4 Contact Closure Switches: On a 4–pin terminal block
	1 USB: On a USB–A connector for firmware upgrade
Video	Max. Input Resolution: 4K@60 (4:4:4)
	Max. Data Rate: 18Gbps (6Gbps per graphic channel)
	Input HDMI/USB-C Resolutions:
	Output Resolutions:
	Latency: 1–2 frames
	Content Protection: HDCP 2.2 & 1.4
Bedienoberfläche	Controls: Input selector, video freeze and resolution reset front panel buttons, OSD menu
	Indicators: Selected input and power LEDs
Energiebedarf	Source: 24V DC
	Consumption: Up to 3.4A (when charging USB−C devices at 60W)
Gehäuse	Size: MegaTOOLS®
	Type: Aluminum
	Cooling: Convection ventilation
Umweltbedingungen	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
Mitgeliefertes Zubehör	Included: Power adapter, bracket set, rubber feet

USB-C — Laptop
HDMI — Blu-ray Player
HDMI — Blu-ray Player
HDMI — Display
Audio — Active Speakers
Contact Closure Switches