



# KRAMER

## VP-424C

18G 4K HDMI ProScale™ Digital Scaler with  
HDMI and USB-C Inputs

| HDMI | 4K/60 UHD (4:4:4)  
| HDCP 2.2 Compatible



VP-424C is a high-performance digital scaler for HDMI and USB type-C signals. The unit up- or down-scales the selected video signal to resolutions up to 4K@60Hz (4:4:4) at a maximum data rate of 18Gbps (6Gbps per graphic channel). The user selects the HDMI or USB type-C input and the scaled output is sent to the HDMI output

## FEATURES

**High-Performance Professional Scaler** - Up-scales or down-scales HDMI and USB type-C signals to any resolution up to 4K@60 (4:4:4). The scaler supports CEC as specified in HDMI 2.0 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 HDMI or USB Type-C input, or, if no input is selected, the active source is automatically selected

**EDID Handling** - Reading and storage of the video acceptor's EDID

**Convenient 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 active 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



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## TECHNICAL SPECIFICATIONS

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| Inputs                   | 1 HDMI: On a female HDMI connector<br><br>1 USB-C: On a female USB-C connector (USB3.1, DP Alternate Mode)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Outputs                  | 1 HDMI: On a female HDMI connector                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Ports                    | Contact Closure Switches: On a 3-pin terminal block<br><br>USB: On a USB-A connector for firmware upgrade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Video                    | Max. Input Resolution: 4K@60Hz (4:4:4)<br><br>Max. Data Rate: 18Gbps (6Gbps per graphic channel)<br><br>Input Resolutions: 480i/576i, 480p/576p, 720p@60/50Hz, 1080i@60/50Hz, 1080p@24/25/30/50/60Hz, 640x480@60/67/72/75/85Hz, 800x600@56/60/72/75Hz, 1024x768@60/70/75Hz, 1280x1024@60/75Hz, 1280x720@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1600x1200@60Hz, 1600x900@60 RB, 1680x1050@60Hz, 1920x1080@60Hz, 1920x1200@60 RB, 2048x1080@24/25/30/50/60Hz, 2560x1600@60 RB, 4K/2K@50/60Hz (4:2:0), 4K/2K@24/25/30/50/60Hz (4:4:4)<br><br>Output Resolutions: 640x480@60Hz, 720x480p@60Hz, 720x576p@50Hz, 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz, 1280x720@60Hz, 1280x720p@50/60Hz, 1280x768@60Hz, 1280x800@60Hz, 1360x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@60Hz, 1920x1080p@24/25/30/50/60Hz, 1920x1200 RB@60Hz, 2048x1080@50/60Hz, 2560x1080p@50/60Hz, 2560x1440 RB@60Hz, 2560x1600 RB@60Hz, 4K/2K@24/25/30/50/60Hz<br><br>Latency: 1-2 frames<br><br>Content Protection: HDCP 2.2 & 1.4 |
| User Interface           | Controls: Input selection and resolution reset front panel buttons, OSD menu<br><br>Indicators: Selected input and power LEDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Power                    | Source: 5V DC<br><br>Consumption: 1.8A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Enclosure                | Size: MegaTOOLS®<br><br>Type: Aluminum<br><br>Cooling: Convection ventilation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Environmental Conditions | Operating Temperature: 0° to +40°C (32° to 104°F)<br><br>Storage Temperature: -40° to +70°C (-40° to 158°F)<br><br>Humidity: 10% to 90%, RHL non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Accessories              | Included: Power adapter, bracket set, rubber feet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product Dimensions       | 19.00cm x 11.50cm x 2.70cm (7.48" x 4.53" x 1.06" ) W, D, H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Product Weight           | 0.5kg (1.2lbs) approx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Shipping Dimensions      | 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Shipping Weight          | 1.1kg (2.4lbs) approx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

