



# KRAMER

## MV-5

5-Channel Multiviewer

| DVI | 3G HD-SDI - BNC | Ethernet - RJ-45  
| HDCP Compliant



The MV-5 is a versatile, high-performance video and graphic multi-window viewer for DVI signals, SD and HD analog signals up to 1920x1200@60Hz, and SDI signals up to 3G HD-SDI. The device can window up to four sources (plus a background) in any layout and output the image as SDI, DVI, component and composite video signals. Both preprogrammed and customizable screen division is supported

## FEATURES

Max. Input Data Rate - 3Gbps

Kramer Equalization & re-Klocking™ Technology - Rebuilds the digital signal to travel longer distances

Multi-Video Output Formats - SD-SDI (259M), HD-SDI (292M) and 3G HD-SDI (SMPTE 424M), HDMI, HD, SD, analog and composite

HDTV Compatible

HDCP Support on DVI Inputs/Outputs

Powerful Cross Conversion - Any format to any format, any standard to any standard

Input Cable Equalization - Up to 350m (1150ft) for SD signals, 140m (459ft) for 1.5GHz HD signals, and 120m (394ft) for 3GHz HD signals

Chroma-Key Engines - Four independent chroma-key engines for each image layer

Window and Image Scaling - Zooming (up to 1000%) and aspect ratio control

Independent Layer Transparency Control

Image Controls - Brightness, contrast, color and sharpness

Window or Input Label Insertion

16 User-Definable Screen Layouts

Screen Handling Buttons - Freeze, size, position

Lock Button - To prevent unwanted tampering

Flexible Control Options - Front panel with menu LCD, on-screen display (OSD), Ethernet and RS-232

Worldwide Power Supply - 100-240V AC



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## TECHNICAL SPECIFICATIONS

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INPUTS:	4 RGB/component HD on 20 BNC connectors, 6 analog SD on 12 BNC connectors, 5 DVI-D on DVI-I connectors, 4 SDI on BNC connectors
OUTPUTS:	1 RGB/component HD on 5 BNC connectors, 1 DVI-D on a DVI-I connector, 2 SDI on BNC connectors
MAXIMUM OUTPUT LEVEL:	800mVpp/75Ω
JITTER:	Better than 0.2UI
DATA RATE:	Up to 2.97Gbps
HDMI BANDWIDTH:	Up to 6.75Gbps data rate (2.25Gbps per graphic channel)
COMPLIANCE WITH HDMI STANDARD:	HDCP (DVI inputs/outputs)
SUPPORTED OUTPUT RESOLUTIONS:	480i/60, 576i/50, 720p/50, 720p/59, 720p/60, 1080i/50, 1080i/59, 1080i/60, 1080p/23, 1080p/24, 1080p/25, 1080p/29, 1080p/30, 1080p/50, 1080p/59, 1080p/60, 1080psf/23, 1080psf/24, 1080psf/25, 1080psf/29, 1080psf/30, 640x480/60, 640x480/72, 640x480/75, 640x480/85, 800x600/60, 800x600/72, 800x600/75, 800x600/85, 1024x768/60, 1024x768/70, 1024x768/75, 1024x768/85, 1152x864/75, 1280x768/60rducBL, 1280x768/60, 1280x768/75, 1280x768/85, 1280x960/60, 1280x768/85, 1280x1024/60, 1280x1024/75, 1360x768/60, 1366x768/60, 1400x1050/60rducBL, 1400x1050/60, 1400x1050/75, 1440x900/60rducBL, 1440x900/60, 1440x900/75, 1440x900/85, 1600x1200/60, 1680x1050/60rducBL, 1680x1050/60, 1920x1200/60rducBL
POWER CONSUMPTION:	100–240V AC, 50/60Hz, 57VA
CONTROLS:	Front panel buttons, RS-232, Ethernet
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	-40°C to +70°C (-40° to 158°F)
HUMIDITY:	10% to 90%, RHL non-condensing
INCLUDED ACCESSORIES:	Power cord, rack "ears"
Product Dimensions	19" x 9.29 x 2U (43.6cm x 23.60cm x 8.80cm) W, D, H
Product Weight	3.7kg (8.0lbs) approx
Shipping Dimensions	55.00cm x 34.00cm x 15.50cm (21.65" x 13.39" x 6.10" ) W, D, H
Shipping Weight	4.9kg (10.8lbs) approx

