

# CRESCENT

## Mi-16 + (Plus)

Cost Effective 8x2 3G/HD/SD-SDI input Multiviewer



### Key Features

- Low latency - single frame processing delay
- Low energy - only uses 20W of power
- Accepts 16 auto-detect 3G/HD/SD-SDI inputs
- 16 passive input loop outs
- Windows can be sized and moved freely
- Decodes up to 16 embedded audio per SDI input
- Total of 128 audio meters
- 2 separate independent HDMI and SDI outputs with 8 inputs each
- Output resolution up to 1080P@60Hz
- Ethernet for configuration and external control
- Dynamic UMD/Label and Tallies (TSL)
- Standalone labels and 2 customizable logos
- 2 digital and 2 analog clocks can be synced with LTC or NTP
- 32 GPIs for tallies, count up/down triggers or preset recalls
- 8 GPO for alarm triggers
- Borders can be turned on or off
- 2 sets of safe area markers
- Visual alarm tags for format, video/audio presence
- Audio monitoring outputs - stereo, AES, SDI or HDMI
- 1 RU with optional redundant power supply
- Optional redundant power supply
- 3 year limited warranty

### Accessories

#### Standard

- Rack-mounts
- 4x RJ50 to DB9 cables for GPI
- 4x breakout terminal blocks
- RJ45 to DB9 cable for serial (RS-232)
- Analog audio breakout cable

#### Optional

- Redundant power supply

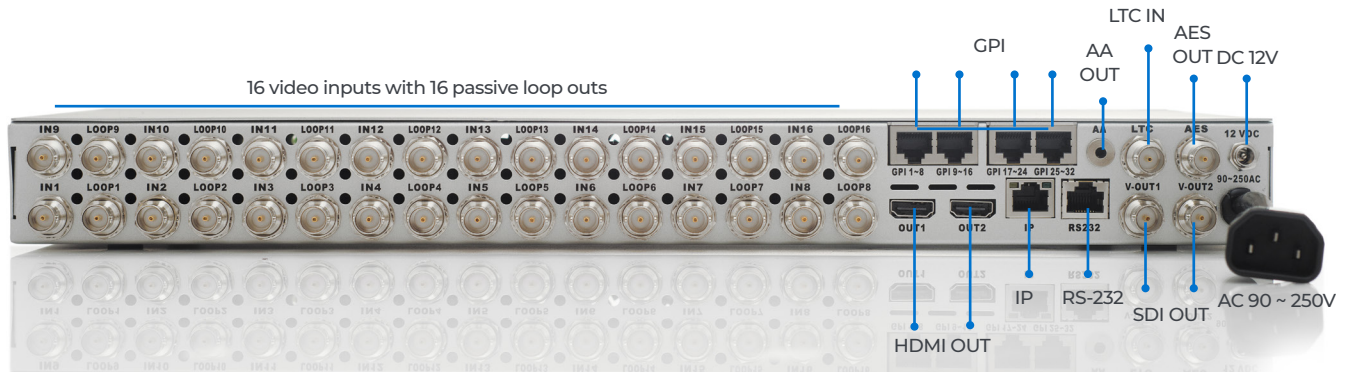
#### Optional Licenses

- ATC/VITC decoding and display
- Closed Captioning (608/708/OP47)
- Third Party Router Interface

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### Rear View



### Specifications

<b>Inputs</b>	Up to 3G (level A/B)/HD/SD-SDI	<b>Video Output</b>	2 independent HDMI and 2 SDI with 8 windows each
<b>Connector Type</b>	BNC IEC, 61169-8 Annex A	<b>Audio Output</b>	AA, AES and Embedded stereo audio pair
<b>Total Windows</b>	4, 8, 12 or 16	<b>Output Resolution</b>	HDMI: 1920x1080P 50/59.94 Hz SDI: 1080P/1080i 50/59.94 Hz
<b>Aspect Ratios</b>	16:9 for all or 4:3 for Standard definition	<b>Latency</b>	1 frame
<b>Serial Digital</b>	525i59.94, 626i50, 720p50, 720p 59.94, 720p60, 1080i50, 1080i59.94, 1080i60, 1080p50, 1080p59.94, 1080p60 Level A/B	<b>On Screen Display</b>	Borders, Static and Dynamic Labels/UMDs, Tally LEDs, Alarm Tags, Clocks and Logos
		<b>SDI Color Encoding</b>	10 bit 4:2:2
		<b>GPI</b>	16 for tally or AXP (ASCII command)
<b>Equalization</b>	120m at 2.97 Gbps, 140m at 1.48 Gbps, 400m at 270 Mbps with Belden 1694A	<b>Serial Port</b>	RS-232. Connector: RJ45, Baud Rate up to 115,200. Supports TSL and AXP protocols
<b>Return Loss</b>	> 15db up to 1.485 Gbps > 10db up to 3G	<b>IP</b>	100 Base-T for control and configuration and TSL, AXP protocol
<b>Embedded Audio</b>	SMPTE-272M-A	<b>Supported IP Protocols</b>	TSL 3.1 for dynamic tallies and labels, Optional: Utah and PESA router protocols
<b>Alarms</b>	No audio, audio high/low, no video, video format display	<b>Electrical</b>	20 W, 90 - 250 V 50/60 Hz
<b>Environment</b>	Operating temperature: 0 ~ 45 C Operating humidity: 20 ~ 90% RH Storage temperature: -20 ~ 60 C	<b>EMI/RFI</b>	Complies with FCC Part 15, Class A, CE, EU EMC, C-tick
		<b>Size / Weight</b>	1RU. 446 x 232 x 44 mm (L x W x H)