CRYSTAL GROUP™
RUGGED TECH. ZERO LIMITS.

RVA6152
RUGGED VIDEO APPLIANCE

- 4x 4096x2160 @ 60Hz max resolutiojn
- Stand alone or rack-mounted options
- Up to 7 full-height PCIe slots
- Quad 4K input with zero latency pass through
- AC or DC power
- HDCP compliant

EXTEND YOUR REACH WITH MULTI-CHANNEL HD

Video-based data is critical to the accuracy and effectiveness of critical edge applications. In collaboration with Matrox® Video, the RVA6152 is the world's only ruggedized multi-4K video encoder and 4K IP KVM extender. This game-changing ruggedized video appliance (RVA) delivers critical, real-time 4K video streaming, recording, extension, and storage with seamless accuracy in the most demanding and unpredictable operating environments. Equipped with H.264 compression technology, the RVA6152 video encoder delivers quality, low-bitrate streaming and recording. The quad 4K input capture and encode enables secure, real-time streaming and/or recording of four or more 4K channels simultaneously over standard one Gigabit Ethernet (GbE) networks. The plug-and-play design integrates easily into existing infrastructures for high-density content distribution and system scalability.

Crystal Group provides a 5-year warranty and forward-looking configuration management to enhance the long-term investment of your compute solution.

USE CASES

- Active combat operations
- Real-time oil rig monitoring
- Conducting live, virtual, constructive training on land, in air, or at sea

CRYSTAL GROUP RVA6152 TECHNICAL SPECIFICATIONS

Hardware	**Acoustic noise:** ~25 dB at full stream/record capacity **Power supply:** 100-240 VAC in, 12 VDC out, 60W; DIN4 locking power connector **Product dimensions:** **Form factors:** Stand-alone appliance; Rack mount (1U, 1/2R)
Encoding	**Formats (Codecs)** • **Video:** H.264/MPEG-4 Part 10 (AVC) • **Audio:** MPEG-4 AAC-LC/HEv1/HEv2
Recording	**Formats:** MP4, MOV, fMP4 **Programmability**: Start date and time, duration, maximum file length, file frequency **Locations:** Shared network drive or NAS; Local USB ports for USB flash drive and external hard drive; 2x USB 2.0 (front) and 1x USB 3.0 (back)
Network interface	**Streaming protocols:** • RTSP (TCP), RTCP, and RTP (UDP); all required • RTP/RTCP over UDP; both required • SRT over UDP • RTMP • MPEG2.TS over UDP • HLS **Command & control:** HTTPS over TCP, UPnP (discovery) **Network standard:** 100/1,000 base-T Ethernet, auto speed, half/full duplex **IP addressing:** IPv4, IPv6, DHCP (default), static IP address support **IP stream support:** Unicast, multi-unicast, multi-cast
Performance	**Maximum capture resolution:** • 2x 3840x2160 @60Hz or 2x 4096x2160 @60Hz • 4x 3840x2160 @30Hz or 4x 4096x2160 @30Hz **Color space capture:** • RGB and YUV 8- and 10-bit support • Color space conversion support

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AS9100D CERTIFIED ISO 9001

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CRYSTAL GROUP RVA6152 TECHNICAL SPECIFICATIONS

Connectivity	**Network connector**
	• 2x RJ45 with status LED indicators
	  • 1x control and stream
	  • 1x stream only
	Video input: 4x HDMI (Type A) with audio support
	Video output/Pass-through: 4x HDMI (Type A) with audio support
	Video monitoring output: 1x DisplayPort 1.1
	Audio input:
	• 4x HDMI digital LPCM two-channel stereo audio
	• 4x 3.5 mm analog stereo audio
	  • 1 Vrms (0 dBV)
	  • 14.3 kΩ (gain = 0 dB)
	  • -60 dB to +6 dB (default is 0)
	• 1x 3.5 mm stereo mic in
	  • 2.5 V
	  • 1 Vrms (0 dBV)
	  • 15 kΩ (gain = 0 dB), 5 kΩ (gain≥ 10 dB)
	  •-74 dB to +41 dB (default is 0)
	Audio output
	• 4x HDMI digital LPCM two-channel stereo audio
	• 1x 3.5 mm headphones out
	  • 1.2 Vrms (1.6 dBV)
	  • 32 mW into 32Ω
	  •-74 dB to 0 dB (default is 0)

ENVIRONMENTAL TESTING STANDARDS

MIL-STD-810: Environmental Engineering Considerations and Laboratory Tests	**Method 500, Altitude:** 10,000ft operation, 20,000ft transport **Method 501, Operational Temperature**: Procedure I/II: -10°C to +50°C, -40°C operational with SSD **Method 501, Storage:** Procedure I/II: -30°C to +75°C **Method 507, Humidity:** Procedure II: 240 hours *with optional conformal coating kit* [1] **Method 514, Vibration:** Procedure I: 4.7G, 5–2,000Hz, 60 min/axis, 3 axis [1] **Method 516, Shock:** Procedures I & V: 40G, 11ms, 18 pulses, 3/axis both directions [1]

ELECTROMAGNETIC COMPATIBILITY STANDARDS

IEC/EN 60945	Maritime navigation and radio communication equipment and systems (ENV and EMC)

In-house test reports provided for baseline units; customer-specific test options available upon request.

1: Test report available

2: Testing in progress

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