RIMOTION / RICAPTURE / VENUE GATEWAY
LIVE VIDEO PRODUCTION

SIMPLY **LIVE** ▶
INSIDE

RiMOTION

R6 / R8 / R10 / R12 / R84
REPLAY FOR EVERYBODY

SUPER-SLOMO CAPABLE

Riedel RiMotion live replay solutions are the most intuitive and scalable options in the market, breaking with traditional concepts and bringing a modernized user experience to live replay.

Defined by a compact form factor and significant cost advantages, RiMotion represents the high quality and professional approach all our products are known for.

RiMotion solutions are available in five different bundles, so you'll find just the right one for your production. With RiMotion R6, R8, R10 and R12 you get to choose from 6 to 12 configurable channels for 4 to 10 camera inputs, while the R84 offers HDR and UHD support with options for 4 UHD channels and up to 8 1080p HDR channels.

Riedel RiMotion offers a pioneering solution combining extensive slow-motion capabilities, including super slow-motion (SSM) camera support, with Simplylive's acclaimed touchscreen UI approach.

The intuitive user interface that has become a landmark of the ViBox product range, has been further optimized for RiMotion. All features are concentrated in a clear and simple to use touchscreen interface, that even new users can learn to operate in minutes. Additionally, the system comes with a dedicated RCU slow motion remote controller (RCU), integrated with the touch UI. This allows the best operator experience with the combination of the dedicated remote and touchscreen interface.

RiMotion is designed for the way operators want to work. Some may prefer the familiar Replay Remote Controller with an intuitive button layout and ultra-responsive jog wheel. Others love working with our touch-screen UI, with easy-to-access controls and great feeling scroll pad. And some operators want to work with both at the same time, which is why we offer both… so people can work exactly the way they want.

The RiMotion architecture also brings flexibility for remote, at-home productions. The system allows the backend hardware to be located on-site, while the UI can be extended via Internet to the production facility. This allows for a smaller footprint, less people needed on location and an unparalleled level of workflow flexibility.

Processing Units

FEATURES

R6	R8	R10	R12	R84
· Compact 1RU Unit	· Compact 1RU Unit	· Compact 1RU Unit	· Compact 2RU Unit	· Compact 2RU Unit
· Single Operator	· Single Operator	· Single Operator	· Single or Dual Operator	· Single or Dual Operator
· Redundant PSU	· Redundant PSU	· Redundant PSU	· Redundant PSU & RAID Storage	· Redundant PSU & RAID Storage
· 6 channel 1080p 8bit	· 8 channel 1080p 8bit	· 10 channel 1080p 8bit	· Large Recording Capacity	· Large Recording Capacity
· Dedicated RCU	· Dedicated RCU	· Dedicated RCU	· 12 channel 1080p 8bit	· 8 channel 1080p 10bit or 4 channel UHD 10bit
· SSM optional license	· SSM optional license	· SSM optional license	· 2x dedicated RCUs	· Dedicated RCU
· Networking of servers	· Networking of servers	· Networking of servers	· SSM optional license	· SSM optional licence
			· Networking of servers	· Networking of servers

RIEDEL

SEE IT. LOVE IT. REPLAY IT.

RIMOTION REPLAY

▶▶ **REPLAY FOR EVERYBODY, EVERYWHERE.**

RiMotion is an easy-to-install replay solution that can be implemented almost instantly in broadcast environments of any scale. It streamlines traditional and modern workflows and provides real-time performance, even when working remotely.

• Intuitive touchscreen UI
• Dedicated Remote Controller
• Compact 1RU or 2RU server

Available in five cost-effective bundles:
RiMotion R6, R8, R10, and R12 with 6 to 12 HD channels
RiMotion R84 with up to 4 UHD / 8 HD, HDR channels

SUPER-SLOMO CAPABLE ▶

riedel.net

RiMotion R6 / R8 / R10 / R12 / R84

POWERFUL AND COMPACT SLOW MOTION SOLUTIONS

RiMotion R6, R8 and R10 are the perfect starting point for live replay, while the R12 takes your replay solution to another level with its dual operator support and the ability to network multiple servers to easily upscale your production. And with the new UHD bundle RiMotion R84, UHD productions can now profit from RiMotion's extensive feature set and ease of use, as the RiMotion R84 provides higher resolutions with 4 UHD channels and up to 8 1080p HDR channels.
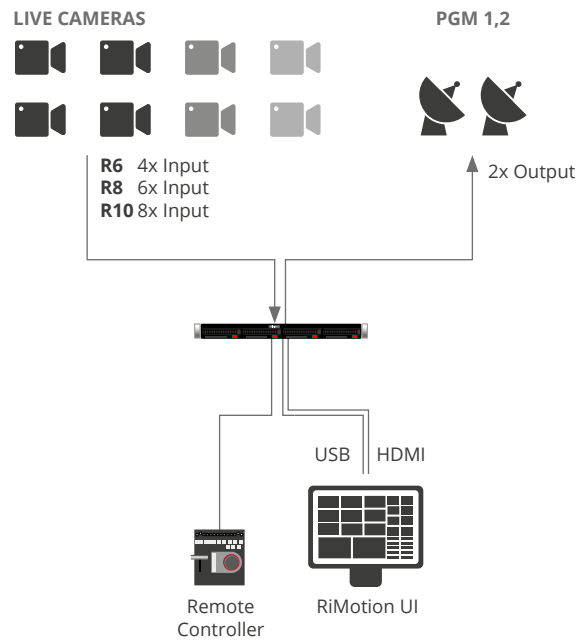
R6/R8/R10 offer 6/8/10 configurable channels for up to 4/6/8 camera inputs with a minimum hardware footprint in a 1 RU portable chassis and include:

· Replays & Highlights
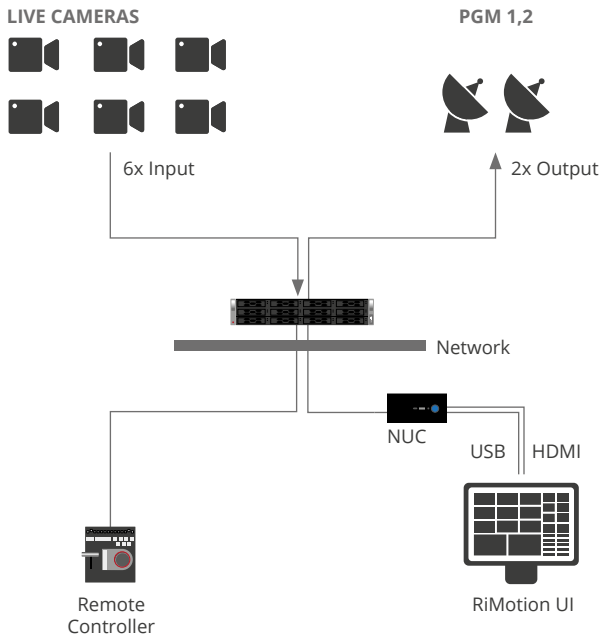· Import / Export of media
· Slow Motion Controller

R12 boasts 12 configurable channels for up to 10 camera inputs in a 2 RU portable chassis, while R84 introduces higher resolutions with 4 UHD channels. Both include:

· Replays & Highlights
· Import / Export of media
· Slow Motion Controller
· 4 Outputs for Dual Operators
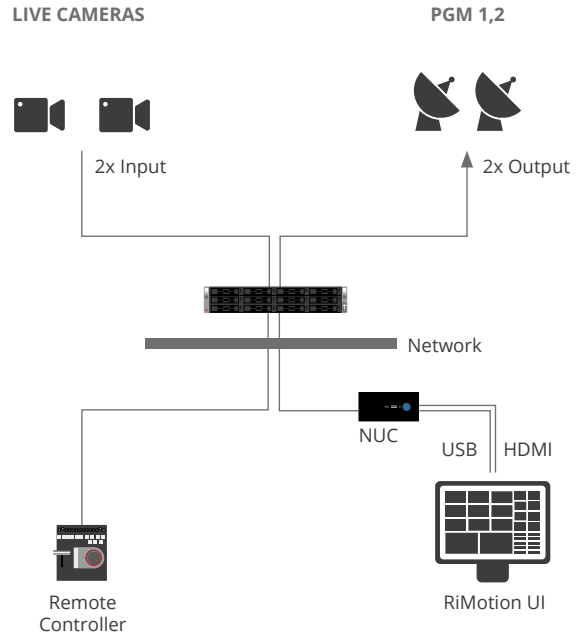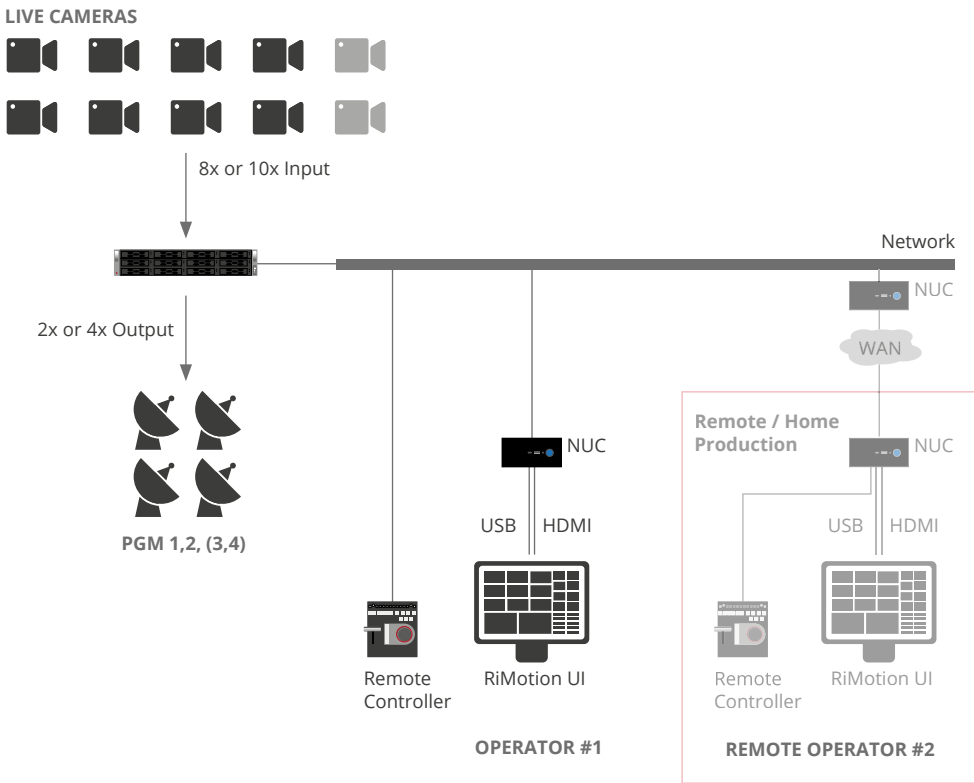· Networking of servers

R6 / R8 / R10
Single Operator Workflow

LIVE CAMERAS   PGM 1,2

R6 4x Input
R8 6x Input
R10 8x Input   2x Output

USB   HDMI

Remote   RiMotion UI
Controller

R84
HD Configuration

LIVE CAMERAS

PGM 1,2

6x Input

2x Output

Network

NUC

USB | HDMI

RiMotion UI

Remote
Controller

R84
UHD Configuration

LIVE CAMERAS

PGM 1,2

2x Input

2x Output

Network

NUC

USB | HDMI

RiMotion UI

Remote
Controller

R12
Dual Operator / Remote Workflow

LIVE CAMERAS

8x or 10x Input

Network

NUC

WAN

2x or 4x Output

**Remote / Home
Production**

NUC

USB | HDMI

PGM 1,2, (3,4)

NUC

USB | HDMI

RiMotion UI

USB | HDMI

RiMotion UI

Remote
Controller

Remote
Controller

RiMotion UI

OPERATOR #1

REMOTE OPERATOR #2

TECHNICAL SPECIFICATIONS

R6	R8	R10
VIDEO		
6 x 3G SDI	8 x 3G SDI	8 x 3G SDI + 2 x IP I/O
I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT	I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT	I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT
DNxHD 120/145/290Mbps 8-bit	DNxHD 120/145/290Mbps 8-bit	DNxHD 120/145/290Mbps 8-bit
4in/2out Single User	6in/2out Single User	8in/2out Single User
VIDEO STANDARD		
HD 720p, 1080i and 1080p, 8-bit	HD 720p, 1080i and 1080p, 8-bit	HD 720p, 1080i and 1080p, 8-bit
AUDIO		
Embedded audio: 16 tracks per video channel (input or output) + Dante or AES67	Embedded audio: 16 tracks per video channel (input or output) + Dante or AES67	Embedded audio: 16 tracks per video channel (input or output) + Dante or AES67
STORAGE		
2, 4 or 8TB SSD storage (up to 24/48/96h)	4, 8TB, or 4x4TB SSD (up to 48/96/144h)	8TB, or 4x4TB SSD (up to 96/144h)
USB3 connectors for import from / export to external storage	USB3 connectors for import from / export to external storage	USB3 connectors for import from / export to external storage
UI MINI PC		
-	-	-
NETWORK		
1x 1/10 Gigabit RJ 45 Ethernet port + 1x 10 Gigabit RJ45 Ethernet port	2x 10 Gigabit RJ45 Ethernet port	2x 10 Gigabit RJ45 Ethernet port
CONTROLLER		
1x RCU included in the bundle	1x RCU included in the bundle	1x RCU included in the bundle
GP/IO		
GPI	GPI	GPI
TSL5	TSL5	TSL5
OPERATING SYSTEM		
Windows 10 Pro 64 bit	Windows 10 Pro 64 bit	Windows 10 Pro 64 bit
PHYSICAL		
1RU Chassis: HxWxD: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58")	1RU Chassis: HxWxD: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58")	1RU Chassis: HxWxD: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58")
Weight: 12.8 kg (28.2 lb)	Weight: 12.8 kg (28.2 lb)	Weight: 12.8 kg (28.2 lb)
POWER		
Redundant Dual 110/230 V, 500W PSUs	Redundant Dual 110/230 V, 500W PSUs	Redundant Dual 110/230 V, 500W PSUs

R12	R84	
	HD	UHD
12 x 3G SDI	4 x 3G SDI + 4x 3G/12G SDI	4 x 12G SDI
I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT	I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT	I/O Options: SDI, NDI, TS UDP, TS RTP, RTMP (Input) or SRT
DNxHD 120/145/290Mbps 8-bit	DNxHD 120/145/290Mbps 8-bit and 220/440Mbps 10-bit	DNxHR 1100Mbps 8-bit and 1665Mbps 10-bit
10in/2out Single User or 8in/4out Dual User	Up to 6in/Up to 4out Single/Dual User (option)	2in/2out Single User
HD 720p, 1080i and 1080p, 8-bit	720p, 1080i and 1080p, 10-bit	2160p
Embedded audio: 16 tracks per video channel (input or output) + Dante or AES67	Embedded audio: 16 tracks per video channel (input or output) + Dante or AES67	
5x2TB or 5x4TB SSD USB3 connectors for import from / export to external storage	5x2TB or 5x4TB SSD USB3 connectors for import from / export to external storage	
2x UI Mini PCs included in the bundle	1x UI Mini PC included in the bundle (2nd UI Mini PC optional)	
2x 10 Gigabit RJ45 Ethernet port	2x 10 Gigabit RJ45 Ethernet port	
2x RCU included in the bundle	1x RCU included in the bundle	
GPI TSL5	GPI TSL5	
Windows 10 Pro 64 bit	Windows 10 Pro 64 bit	
2RU Chassis: HxWxD: 86.0mm (3.5") x 437.0mm (17.2") x 648.0mm (25.5") Weight: 18.5 kg (40.8 lb)	2RU Chassis: HxWxD: 86.0mm (3.5") x 437.0mm (17.2") x 648.0mm (25.5") Weight: 18.5 kg (40.8 lb)	
Redundant Dual 110/230 V, 920W PSUs	Redundant Dual 110/230 V, 920W PSUs	

RiCapture UI & Hardware Unit

RiCAPTURE i4 / i8
i44 / i84

Studio Server Solution for HD/UHD Ingest and Integration to Post- Production

The RiCapture system offers a powerful and compact solution for multi-channel ingest recording and integration to post-production. RiCapture is controlled with the new versatile SSE interface for scheduling, streaming and exporting of the multiple feeds. The i4 and i8 provide 4 or 8 HD HDR input channels, while the i44 and i84 boast 4 UHD channels up to 10-bits along with HDR capability. On the audio side, the RiCapture product line is capable of 16 channels of embedded audio per channel, as well as 64 Dante or AES67 channels.

In all configurations, RiCapture offers high quality recording in DNxHD or DNxHR along with H.264 4:2:0 and 4:2:2 encoding to the local storage. The local recording storage offers continuous loop recording for the captured content, with options to stream manually, stream with a scheduler, or clip

and export files as needed from the available local storage to numerous streaming destinations.

The SSE control application allows users to select between high resolution DNxHD/R and H.264 – or both. RiCapture offers maximum versatility to capture the recorded media locally, on removable storage, on network attached storage, or to live streaming destinations. RiCapture can be expanded to a network of multiple servers for higher density recording and unlimited destinations with control from a single SSE interface. The SSE web application interface allows for diverse configuration capabilities including audio mapping and down-mix audio listening.

RiCapture Software Add-Ons include the VDR Panel application for video playback, as well as XDCam encoding for an alternate HD codec for the i4 and i8.

FEATURES

- SSE Software for Streaming, Scheduling & Exporting
- Extensive Monitoring and Multiviewer
- Codec: DNxHD (HD), DNxHR (UHD)

- HDR Option, XDCAM Option
- Record DNx & H.264 at the same time
- Additional I/O Options: NDI, TS UDP, SRT, RTP or RTMP

i4
- Compact 1RU Unit
- 4 channel HD SDI Inputs
- 2TB SSD internal storage
- Video: HD 720p, 1080i and 1080p, 8/10-bit
- Audio: 16 channel embedded per video + Dante or AES67

i8
- Compact 1RU Unit
- 8 channel HD SDI Inputs
- 2TB or 8TB SSD internal storage
- Video: HD 720p, 1080i and 1080p, 8/10-bit
- Audio: 16 channel embedded per video + Dante or AES67

i44
- Compact 2RU Unit
- 4 channel HD SDI Inputs
- 4 channel UHD SDI Inputs
- 5x 4TB SSD internal storage
- Video: HD 720p, 1080i and 1080p, 8/10-bit or UHD, 8/10-bit
- Audio: 16 channel embedded per video + Dante or AES67

i84
- Compact 2RU Unit
- 8 channel HD SDI Inputs
- 4 channel UHD SDI Inputs
- 5x 4TB SSD internal storage
- Video: HD 720p, 1080i and 1080p, 8/10-bit or UHD, 8/10-bit
- Audio: 16 channel embedded per video + Dante or AES67

ADD-ONS

VDR Panel
Web-based UI with expanded multi-channel control for clip playback, program delays, monitor wall playback and many other scenarios.

RiView
Multiviewer UI for synchronized review of record feeds for review, clipping and export to multiple destinations, incl. audio down-mix monitoring.

XDCam
XDCam HD codec option for i4 and i8 users that require another tapeless format for HD video acquisition and storage.

i4	i8	i44	i84
VIDEO			
4x HD SDI Inputs	8x HD SDI Inputs	4x HD SDI Inputs, 4x UHD SDI Inputs	8x HD SDI Inputs, 4x UHD SDI Inputs
DNxHD 121/145/242/291 Mbps (8-bit) and 184/220/367/440 Mbps (10-bit)		DNxHD 121/145/242/291 Mbps (8-bit) and 184/220/367/440 Mbps (10-bit)	
		DNxHR 919/1101 Mbps (8-bit) and 1389/1665 Mbps (10-bit)	
VIDEO STANDARD			
HD 720p50/59.94, HD 1080i50/59.94, and HD 1080p 23.98/24/25/29.97/29.97psf/50/59.94, 8-bit or 10-bit		HD 720p50/59.94, HD 1080i50/59.94, and HD 1080p 23.98/24/25/29.97/29.97psf/50/59.94, 8-bit or 10-bit // UHD 2160p50/59.94 8-bit or 10-bit	
AUDIO			
Embedded audio: 16 tracks per video channel	Embedded audio: 16 tracks per video channel	Embedded audio: 16 tracks per video channel	Embedded audio: 16 tracks per video channel
64Ch Dante or 64Ch AES67	64Ch Dante or 64Ch AES67	64Ch Dante or 64Ch AES67	64Ch Dante or 64Ch AES67
RECORD PROFILE			
Record DNx & H.264 simultaneously	Record DNx & H.264 simultaneously	Record DNx & H.264 simultaneously	Record DNx & H.264 simultaneously
Option for XDCam Codec	Option for XDCam Codec	Option for XDCam Codec	Option for XDCam Codec
STORAGE			
2TB SSD internal storage	2TB or 8TB SSD internal storage	5x 4TB SSD internal storage	5x 4TB SSD internal storage
NETWORK			
2 x 10 Gigabit RJ45 Ethernet ports	2 x 10 Gigabit RJ45 Ethernet ports	2 x 10 Gigabit RJ45 Ethernet ports	2 x 10 Gigabit RJ45 Ethernet ports
OPERATING SYSTEM			
Microsoft Windows 10	Microsoft Windows 10	Microsoft Windows 10	Microsoft Windows 10
PHYSICAL			
1RU Chassis: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58") Weight: 12.8 kg (28.2 lb)	1RU Chassis: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58") Weight: 12.8 kg (28.2 lb)	2RU Chassis: 86.0mm (3.5") x 437.0mm (17.2") x 648.0mm (25.5") Weight: 18.5 kg (40.8 lb)	2RU Chassis: 86.0mm (3.5") x 437.0mm (17.2") x 648.0mm (25.5") Weight: 18.5 kg (40.8 lb)
Rack-mount option	Rack-mount option	Rack-mount option	Rack-mount option
Redundant Dual 110/230 V, 500W PSUs	Redundant Dual 110/230 V, 500W PSUs	Redundant Dual 110/230 V, 920W PSUs	Redundant Dual 110/230 V, 920W PSUs

VENUE
GATEWAY STANDARD
ADVANCED

Low Latency Remote Contribution Gateway

The Riedel Venue Gateway is a low-latency, bi-directional, multi-channel and multi-format contribution appliance bridging broadcast production infrastructures with distant venues. It aggregates and transports video signals, audio signals, and tally.

Supporting SRT and SDI connectivity, the Venue Gateway offers great agility for contribution feed delivery. The web management interface has been designed to centralize and simplify the configuration. Featuring codec formats like H.264 and H.265, the gateway solution provides software defined low-latency encoding and decoding on 8 bi-directional channels with the highest broadcast quality.

The Venue Gateway offers seamless integration with direct SRT sources being sent to the ViBox platform. Its built-in low latency multiviewer lets remote or on-site engineers view all sources in real time and test the network infrastructure with pre-loaded content.

The Venue Gateway is available as a standard or an advanced version, with the Venue Gateway Advanced adding two 10 Gigabit RJ45 Ethernet connectors for higher backbone bandwidths and two redundant PSUs in a compact 1 RU or 2RU frame.

Designed to provide flexibility and reliability to the users, the Venue Gateway is a complete solution that addresses all requirements of modern-day remote production.

FEATURES

· 8 Channel bi-directional encoder/decoder for remote contribution
· Built-in low latency multiviewer offering remote or on-site monitoring
· Internal audio routing from encode to decode sources with embedded audio
· Receives tally from remote production mixer for camera operators via TSL-5 or GPI/O

Venue Gateway Web Interface

Processing Unit

Venue Gateway	Venue Gateway Advanced
INTERFACE	
8 x Bi-Directional 3G-SDI	8 x Bi-Directional 3G-SDI
2 x 1 Gigabit RJ45 Ethernet	2 x 10 Gigabit, 2 x 1 Gigabit RJ45 Ethernet
1 x Genlock input	1 x Genlock input
1 x LTC XLR	1 x LTC XLR
VIDEO CODEC	
H.264 4:2:0 8 bits	H.264 4:2:0 8 bits
H.264 4:2:2 10 bits	H.264 4:2:2 10 bits
H.265 4:2:0 8 bits	H.265 4:2:0 8 bits
Number of encoding/decoding channels depends on video standard, bit depth, codec type and parameters	
AUDIO CODEC	
AAC	AAC
MPEG-1 Layer II	MPEG-1 Layer II
TRANSPORT FORMAT	
SRT	SRT
Dante Bridge (coming soon)	Dante Bridge (coming soon)
NDI® (coming soon)	NDI® (coming soon)
TS UDP (coming soon)	TS UDP (coming soon)
TS RTP (coming soon)	TS RTP (coming soon)
TALLY	
GPI/O	GPI/O
TSL5 over IP for Tally and UMD	TSL5 over IP for Tally and UMD
COMMUNICATION - TALKBACK	
Dante®, AES67 (coming soon)	Dante®, AES67 (coming soon)
LOCAL STORAGE	
-	2TB SSD
OPERATING SYSTEM	
Windows 10 Pro 64 bit	Windows 10 Pro 64 bit
PHYSICAL	
1RU Chassis: HxWxD: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58")	1RU Chassis: HxWxD: 43.6 mm (1.72") x 438.4 mm (17.25") x 649.9 mm (25.58")
Weight: 12.8 kg (28.2 lb)	27.3 kg (60.19lb)
Redundant Dual 110/230 V, 500W PSUs	Redundant Dual 110/230 V, 920W PSUs
MONITORING	
Integrated Multiviewer with video, audio, timecode and tally	Integrated Multiviewer with video, audio, timecode and tally
Unrecovered packets, CC errors, RTP sequence errors, ETR290 (through 3rd party)	Unrecovered packets, CC errors, RTP sequence errors, ETR290 (through 3rd party)