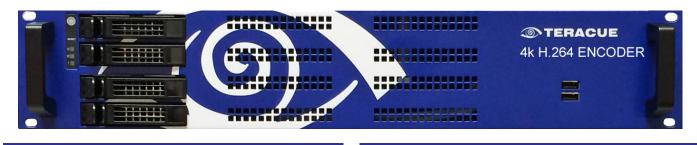
# MC-ENC-4K-2RU



#### 4K HD/SD HDMI H.264 Encoder



#### **PRODUCT DESCRIPTION**

This 4K HD/SD H.264 Encoder is designed for IPTV and live streaming. It is ideal where single computer based DVI signals or HDMI signals are distributed or published on a network or the internet. The MC-ENC-4K-2RU mainly targets medical, military, control room and training applications where high resolutions up to 4K HDMI signals from medical instruments and cameras, radar devices, digital signage player, or any kind of PC desktop views - need to be shared, published, distributed and recorded.

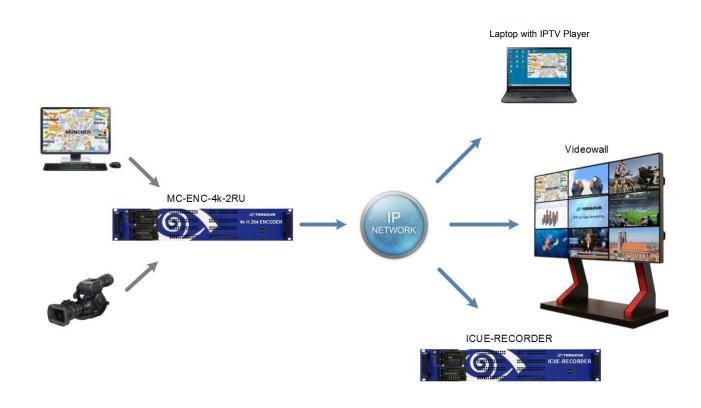
## **KEY FEATURES**

- Real-time encoding of HDMI and DVI signals
- H.264 and MPEG-2 encoding
- Embedded HDMI audio
- 2 HDMI video inputs
- Resolutions up to 4K 3840x2160
- · Logo, time and text inserter
- Adjustable frame rate

## APPLICATION

- Digital Signage Streaming
- Medical & Campus TV
- Telemedicine
- Security Monitoring
- Video Monitoring
- Military IP Transmission

- Training & Research
- Broadcast & CDN IP Contribution
- Wireless & Mobile Streaming
- IPTV/OTT Streaming
- Control Rooms & Command Centers
- Stadium & Event TV



## **MC-ENC-4K-2RU**



1920×1080(@60/50fps, 1/280×720)@60/50fps, 1280×1024p@60fps, 1280×800)@60fps, 61024×768p@60fps, 800×600p@60fps, 720×578p@50fps, 720×480p@60fps, 640×480p@60fpsAudio Input:HDMI embedded audioAudio Format:Stereo / 16-bit / 32000 ~ 48000HzVideo encoding:H.264 (MPEG-4 AVC Part 10, ISO/IEC 14496-10). Profiles: Baseline, Main, High MPEG-2 (ISO/IEC 13818-2), Main ProfileVideo encoding bitrates:250Kb/s – 50Mb/s, CBR/VBRVideo encoding:MPEG-4 AAC, data rate 6-256 kbit MPEG-4 Layer 2, data rate 64-384 kbit sample rates: 48 kHz, 16BitMultiplex format:ISO/IEC 13818-2), Main ProfileVideo recoling:MPEG-4 AAC, data rate 64-364 kbit sample rates: 48 kHz, 16BitMultiplex format:ISO/IEC 13818-1 transport ISO/IEC 14496-10 NAL (Network Abstraction Layer)Performance:Streaming of up to 1× 4Kp30 or 2× 1080p60Streaming Protocols:TS over UTP, TS over HTTP, HLS ISO/IEC 14496-10 NAL (Network Abstraction Layer)Protocols:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:Windows7 64bitNetwork:2× 10/100/1000TX Ethernet, RJ45, half/full duplex, auto-sensing or manual controlEVIRONMENTALLSterasing or manual controlEvironscins:86 x 482 x 460 mm (HxWxD)	TECHNICAL SPECIFICATION	1:
Video Resolution:       3840×2160@30/25fps, 1920×1080p@60/50/fps, 1280×1024p@60/fps, 1920×1080/g60/fps, 1024×768p@60/fps, 1024×768f@fmance         Video resolutions:       320x240 up to 3840x2160         Audio encoding:       MPEG-4 AAC, data rate 6-256 kbit MPEG-1 Layer 2, data rate 6-256 kbit MPEG-1 Layer 2, data rate 0-256 kbit MPEG-1 Layer 2, data rate 0-256 kbit         Multiplex format:       ISO/IEC 13818-1 transport ISO/IEC 1498-10 NAL (Network Abstraction Layer)         Multiplex format:       ISO/IEC 13818-1 transport ISO/IEC 1498-10 NAL (Network Abstraction Layer)         Multicast and Unicast ISO/IEC 10496-10 NAL (Network Abstraction Layer)       ISO/IEC 1496-10 NAL (Network Abstraction Layer)         Management:       HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCP       ISO/IEC 1496-10 NAL (Network Ab		
1920×1080       B00(FS0(Fs), 1280×720, @00/S0(Fs), 1280×1024, @00/Fs, 1280×1024, @00/Fs, 1280×1004, @00/Fs, 1280×1024, #00/Fs, 1280×1044, #00/Fs		
Audio Format:       Stereo / 16-bit / 32000 ~ 48000Hz         Video encoding:       H 264 (MPEG-4 AVC Part 10, ISO/IEC 14496-10). Profiles: Baseline, Main, High MPEG-2 (ISO/IEC 13818-2), Main Profile, High Profile         Video encoding bitrates:       320x240 up to 3840x2160         Audio encoding:       MPEG-4 AAC, data rate 6-256 kbit MPEG-1 Layer 2, data rate 64-384 kbit sample rates: 48 kHz, 1681t         Multiplex format:       ISO/IEC 13818-1 transport ISO/IEC 14496-10 NAL (Network Abstraction Layer)         Performance:       Streaming of up to 1× 4Kp30 or 2× 1080p60         Streaming Protocols:       TS over UDP, TS over RTP, TS over HTTP, HLS ISO/IEC 14496-10 NAL (Network Abstraction Layer)         Multiplex format:       ISO/IEC 14496-10 NAL (Network Abstraction Layer)         Streaming Protocols:       T Control protocol, SNMP traps/alerts, DHCP         Management:       HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCP         Management:       Windows7 64bit         Network:       2× 10/100/1000TX Ethernet, RJ45, halt/full duplex, auto-sensing or manual control         ENVIRONMENTAL       19', 2 RU         Dimensions:       86 x 482 x 460 mm (HxWxD)         Weight:       10 kg         Temperature:       +5 to +60°C environmental temperature         Power supply:       2x 260 Watt PSU, typical 120 Watt, 100-240V, 47-63 Hz (hot swappable)         Limited warranty       1	Video Resolution:	1920×1080i@60/50fps, 1280×720p@60/50fps, 1280×1024p@60fps, 1280×960p@60fps, 1024×768p@60fps, 800×600p@60fps, 720×576p@50fps,
Video encoding:H.264 (MPEG-4 AVC Part 10, ISO/IEC 14496-10). Profiles: Baseline, Main, High MPEG-2 (ISO/IEC 13818-2), Main Profile, High ProfileVideo encoding bitrates:250Kb/s – 50Mb/s, CBR/VBRVideo encoding:320x240 up to 3840x2160Audio encoding:MPEG-4 AAC, data rate 6-256 kbit MPEG-1 Layer 2, data rate 64-384 kbit sample rates: 48 ktz, 1681tMultiplex format:ISO/IEC 13818-11 ransport ISO/IEC 14496-10 NAL (Network Abstraction Layer)Performance:Streaming of up to 1×4Kp30 or 2×1080p60Streaming Protocols:TS over UDP, TS over HTTP, HLS ISO/IEC 14496-10 NAL (Network Abstraction Layer)Protocols:HTTP, TCP/IP control protocol, SNIMP traps/alerts, DHCPManagement:HTTP, TCP/IP control protocol, SNIMP traps/alerts, DHCPNetwork:2× 10/100/1000TX Ethernet, RJ45, half/full duplex, auto-sensing or manual controlENVIRONMENTAL19°, 2 RUDimensions:86 x 482 x 460 mm (HxWxD)Weight:10 kgTemperature:+5 to +60°C environmental temperaturePover supply:2x 260 Watt PSU, Upical 120 Watt, 100-240V, 47-63 Hz (not swappable)Limited warranty1 year standard limited warranty. Warranty extensions available up to 5 years.ORDER INFORMATIONMC-ENC-4K-2RUMC-ENC-4K-2RUMK HD/SD HDMI H.284 Encoder with 2 HDMI inputs and embedded audio. Requires MC-SWWAIN for first 12 month of installation.MC-SWWAINAnnual software maintenance for MC-ENC-4K-2RU. Free upgrades within same version number. Free telephone and email support within the standard working hours.	Audio Input:	HDMI embedded audio
Profiles: Baseline, Main, High MPEG-2 (ISO/IEC 13818-2), Main Profile, High ProfileVideo encoding bitrates:250Kb/s - 50Mb/s, CBR/VBRVideo resolutions:320x240 up to 3840x2160Audio encoding:MPEG-4 AAC, data rate 62-56 kbit MPEG-1 Layer 2, data rate 64-394 kbit sample rates: 48 kHz, 16BitMultiplex format:ISO/IEC 13818-1 transport ISO/IEC 14496-10 NAL (Network Abstraction Layer)Performance:Streaming of up to 1× 4Kp30 or 2× 1080p60Streaming Protocols:Streaming of up to 1× 4Kp30 or 2× 1080p60Streaming Protocols:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:Windows7 64bitNetwork:2× 10/100/1000TX Ethermet, RJ45, half/full duplex, auto-sensing or manual controlENVIRONMENTAL10 kgPensions:86 x 482 x 460 mm (HxWxD)Weight:10 kgTemperature:+5 to +60°C environmental temperaturePower supply:2x 260 Watt PSU, typical 120 Watt, 100-240V, 47-63 Hz (hot swappable)Limited warranty1 year standard limited warranty. Warranty extensions available up to 5 years.ORDER INFORMATIONMC-ENC-4K-2RUMC-ENC-4K-2RUMK HD/SD HDMI H_264 Encoder with 2 HDMI inputs and embedded audio. Requires for MC-SMWAIN for first 12 month of installation.	Audio Format:	Stereo / 16-bit / 32000 ~ 48000Hz
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MPEG-1 Layer 2, data rate 64-384 kbit sample rates: 48 kHz, 16BitMultiplex format:ISO/IEC 14496-10 NAL (Network Abstraction Layer)Performance:Streaming of up to 1× 4Kp30 or 2× 1080p60Streaming Protocols:TS over UDP, TS over RTP, TS over HTTP, HLS ISO/IEC 14496-10 NAL (Network Abstraction Layer)Protocols:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:HTTP, TCP/IP control protocol, SNMP traps/alerts, DHCPManagement:Vindows7 64bitNetwork:2× 10/100/1000TX Ethernet, RJ45, half/full duplex, auto-sensing or manual controlEVVIRONMENTAL9°, 2 RUDimensions:86 x 482 x 460 mm (HxWxD)Weight:10 kgTemperature:+5 to +60°C environmental temperaturePower supply:2x 260 Watt PSU,typical 120 Watt, 100-240V, 47-63 Hz (hot swappable)Limited warranty1 year standard limited warranty. Warranty extensions available up to 5 years.ORDER INFORMATIONMC-ENC-4K-2RUMC-ENC-4K-2RUAK HD/SD HDMI H.264 Encoder with 2 HDMI inputs and embedded audio. Requires MC-SMWAIN for first 12 month of installation.	Video resolutions:	320x240 up to 3840x2160
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number. Free telephone and email support within the standard working hours.	MC-ENC-4K-2RU	
MC-ENC-4K-2RU-WE One year warranty extension for a maximum of 5 years.	MC-SWMAIN	
	MC-ENC-4K-2RU-WE	One year warranty extension for a maximum of 5 years.

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