



C-60 E-MC

One-channel IP video encoder

DESCRIPTION

The Siqura C-60 E-MC multi-codec video server combines H.264, MPEG-2, MPEG-4, and MJPEG video encoding. It's an open, cost-effective solution designed to operate under extreme conditions. The C-60 E-MC features robust, reliable, crystal clear, highly detailed, and low bandwidth video and is interoperable with most existing systems.

FEATURES

Supports H.264/MPEG-2,/MPEG-4/MJPEG encoding

Image quality monitor and tamper detector

Field hardened (NEMA TS-2)

Multi-steaming support

Duplex serial data and stereo audio

ONVIF Profile S

NTCIP protocol support





Description

Image quality monitor and tampering alarm

The C-60 E-MC is fitted with video analytics to check the health of connected cameras. This image quality monitor analyses contrast, exposure, sharpness and noise. Camera tampering analytics detect any changes in the camera's position or field of view. The instant a camera is subject to failure or tampering, an alert can be raised.

Enhanced video quality

Modern flat LCD monitors show artefacts with standard PAL or NTSC video. Standard deinterlacing loses half of the vertical resolution. Siqura's sophisticated deinterlacing scheme optimises vertical resolution resulting in superior video images without artefacts.

ONVIF and Sigura Programming Interface (SPI)

The C-60 E-MC supports the international ONVIF standard for remote control, configuration, video switching, and streaming. The encoder has been approved for ONVIF Profile S

for streaming, PTZ, and I/O. An alternative control interface is the SPI, a comprehensive HTTP- and RTSP-based API for remote control of the encoder that makes full integration easy.

Multi-streaming per channel

The C-60 E-MC encoder is capable of streaming H.264, MPEG-2, MPEG-4, and MJPEG simultaneously. Each stream is optimized for its purpose, e.g. high-quality H.264 or MPEG-2 live viewing, low bandwidth H.264 or MPEG-4 storage, and low resolution MJPEG for web applications or remote devices. The H.264 implementation is based on dedicated hardware resulting in unparalleled video quality.

Audio, data, and I/O contacts

Combining streaming video with duplex audio, serial data, and I/O contacts over IP, the C-60 E-MC provides all the interfaces necessary for any CCTV application (CD-quality stereo audio, lip—sync audio, PTZ control, alarm contacts, access control, etc.). Internal video motion detection (VMD) can be used for automated security solutions or event-triggered storage.



Types of streaming		
Input level	Video	
Compression algorithm(s)	Number of channels	1x PAL/NTSC (Auto/PAL/NTSC)
Types of streaming UDP/IP (multicast and/or unicast) TCP/IP (RTP over RTSP) Number of output streams Up to 20 Input impedance 75 /FH.Z electable Video motion detection Yes (user-defined masking) Encoding latency 20k or 600 balanced Connector type RJ-45 Data Number of channels 2 full-duplex Number of streams 2 x 3 (multicast and/or unicast) Interface(s) 1 x RS-322, 1 x RS-422/485 (2- or 4-wire) Types of streaming TCP/IDP/IMX configurable Data rate 300 b/s to 230.4 kb/s Connector type RJ-45	Input level	1 Vpp (3 dB)
Number of output streams Up to 20 Input impedance 75 /Hi-Z selectable Video motion detection Yes (user-defined masking) Encoding latency 20k or 600 balanced Coutput impedance 100 balanced Connector type RJ-45 Data Number of channels 2 full-duplex Number of streams 2 x 3 (multicast and/or unicast) Interface(s) 1x RS-232, 1x RS-422/485 (2- or 4-wire) Types of streaming TCP/UDP/MX configurable Data rate 300 b/s to 230.4 kb/s Connector type RJ-45 Connector type RJ-45 Contact closures Number of channels 2x in, 2x out Number of streams 2 x 3 (multicast and/or unicast) Number of streams 2 x 3 (multicast and/or unicast) Number of interface RJ-45 Connector type RJ-45 Connecto	Compression algorithm(s)	H.264 BP (ISO/IEC 14496-10) MPEG-2 (ISO/IEC 13818-2), MJPEG, MPEG-4 (ISO/IEC 14496-2, ISN
Input impedance 75 /Hi-Z selectable Video motion detection Yes (user-defined masking) Encoding Istency 20k or 600 balanced Cutput impedance 100 balanced Connector type RJ-45 Data Number of channels 2 full-duplox Number of streams 2 x 3 (multicast and/or unicast) Interface(6) 1x RS-232, 1x RS-422/485 (2- or 4-wire) Types of streaming TCP/UDP/MX configurable Data rate 300 b/s to 230.4 kb/s Connector type RJ-45 Contact closures Number of channels 2x in, 2x out Number of streams 2 x 3 (multicast and/or unicast) Interface(7)	Types of streaming	UDP/IP (multicast and/or unicast) TCP/IP (RTP over RTSP)
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Types of streaming TCP/UDP/MX configurable Data rate 300 b/s to 230.4 kb/s Connector type RJ-45 Contact closures Number of channels 2x in, 2x out Number of streams 2x3 (multicast and/or unicast) Output Fail-safe, potential-free Connector type RJ-45 Transmission interface Number of interfaces 1 Interface(s) 10/100Base-TX Fast Ethernet, autonegotiation, half-duplex/full-duplex, 10/100 Mb Protocols H.264 BP, MPEG-4 ES, MPEG-2 TS, MPEG-2 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHC Connector type RJ-45 Management LED status indicators DC Power-on indicator (green) NV No video on input (red) Sync All links are operational (green); failure in RX stream(s) (yellow); failure in TX stream(s) (red) Ethernet port Green LED: on = 100 Mb, off = 10 Mb; amber LED: on = link okay, flashes with activity Network management and control ONVIF, SNMP v.2, SPI, HTML (password protected) Powerion Power consumption ;5W Rack-mount units MC 10 and MC 11 power supply cabinets	Number of streams	2 x 3 (multicast and/or unicast)
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Number of streams 2 x 3 (multicast and/or unicast) Output Fail-safe, potential-free Connector type RJ-45 Transmission interface Number of interfaces 1 Interface(s) 10/100Base-TX Fast Ethernet, autonegotiation, half-duplex/full-duplex, 10/100 Mb Protocols H.264 BP, MPEG-4 ES, MPEG-2 TS, MPEG-2 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHC Connector type RJ-45 Management LED status indicators DC Power-on indicator (green) NV No video on input (red) Sync All links are operational (green); failure in RX stream(s) (yellow); failure in TX stream(s) (red) Ethernet port Green LED: on = 100 Mb, off = 10 Mb; amber LED: on = link okay, flashes with activity Network management and control ONVIF, SNMP v2, SPI, HTML (password protected) Powering Power consumption ;5W Rack-mount units MC 10 and MC 11 power supply cabinets	Contact closures	
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Transmission interface Number of interfaces 1	Output	Fail-safe, potential-free
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Power consumption ;5W Rack-mount units MC 10 and MC 11 power supply cabinets	Powering	
Rack-mount units MC 10 and MC 11 power supply cabinets	-	·5/\/
1 117	·	
TOTAL CONTRACTOR AND A	Stand-alone units (/SA)	11 to 19 Vdc (PSA-UN12DC or PSR-12DC)

Specs



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-40 °C to +74 °C (-40 °F to +165 °F)
200,000 hours
IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FO
NEMA TS 2 compliant
128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in)
450 g (15.80 oz)
Rack-mount or stand-alone
H.264/MPEG-2/-4/MJPEG video encoder with audio, data, and CCs
Stand-alone version of rack-mount model