

Features

- 4-channel multi-codec video server
- Simultaneous MPEG-2, MPEG-4, and MJPEG
- Compact field-hardened design for high-density video
- Image Quality Monitor & Tamper Detector
- Adaptive de-interlacing for enhanced quality
- Open Streaming Architecture
- Triple streaming support
- Duplex serial data
- Video Motion Detection



Description

The Siquira® C-54 E-MC multi-codec video server is an open, versatile, and cost-effective 4-channel solution for IP video monitoring applications, even under extreme outdoor conditions. Utilizing the full power of MPEG-2, MPEG-4, and MJPEG, the C-54 E-MC features low-latency, crystal clear, and highly detailed MPEG-2 video; low bandwidth, DVD-quality MPEG-4 video; easy to decode, low frame rate MJPEG. Each channel can transmit these streams simultaneously, at different resolutions and frame rates.

Image Quality Monitor & Tampering Alarm

The C-54 E-MC is fitted with video analytics to check the health of connected cameras. This image quality monitor analyzes 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 artifacts with standard PAL or NTSC video. Standard de-interlacing loses half of the vertical resolution. Siquira's sophisticated de-interlacing scheme optimizes the vertical resolution resulting in superior video images without artifacts.

Open Streaming Architecture (OSA)

The C-54 E-MC is designed with OSA offering standard streaming video and remote control based on international standards and tested with different vendors. A comprehensive HTTP API gives access to all controls and makes integration easy. In addition, the C-54 E-MC supports the unique Siquira® MX™ protocol.

Triple Streaming per Channel

The versatile C-54 E-MC encoder is capable of streaming MPEG-2, MPEG-4, and MJPEG simultaneously. Each stream is optimized for its purpose, e.g. high quality MPEG-2 live viewing, low bandwidth MPEG-4 storage, and low-resolution MJPEG for web applications or remote devices (e.g. PDAs).

Data

By combining streaming video with serial data over IP, the C-54 E-MC provides the necessary interface for any CCTV application. Internal Video Motion Detection can be used for automated security solutions or event-triggered storage.

Web Interface

Configuration, management, and live viewing are simplified by the access-controlled web interface. Full in-band control is available through the Siquira® MX™ Configuration Tool Kit or the HTTP API. The Siquira® C-54 E-MC is field-upgradeable.

FTP Push

Upon an event the C-54 E-MC can post a JPG image to a remote server via one or two FTP servers. The event can be triggered externally, by VMD, the Image Quality Monitor, Tamper Detector, etc. Or it can upload images to the remote server(s) periodically.

Fiber Option

The C-54 E-MC is available with an optional pluggable SFP slot for direct to fiber connections. The XSNet range of SFP devices offers a variety of multimode or single-mode fiber solutions.

Ordering Information

Model

C-54 E-MC
C-54 E-MC /SFP
C-54 E-MC /SA

Description

4-Channel MPEG-2/-4/MJPEG video encoder with data, and CCs
4-Channel MPEG-2/-4/MJPEG video encoder with data, and CCs, empty 100 MB SFP slot
Stand-alone version of rack-mount models

C-54 E-MC

Technical specifications

Multi-codec video encoder

Video		Management	
Video Channels	4x NTSC/PAL (Auto/PAL/NTSC)	LED status indicators	
Input level	1 Vpp (±3 dB)	DC	Power-on indicator (green)
Compression algorithm	MPEG-2 (ISO/IEC 13818-2), MJPEG, MPEG-4 (ISO/IEC 14496-2, ISMA comp.)	NV	No video on input (red)
Type of streaming	UDP/IP (multicast and/or unicast) TCP/IP (RTP over RTSP)	SYNC	All links are operational (green); failure in RX stream(s) (yellow); failure in TX stream(s) (red)
Number of output streams	Up to 20 per channel	Ethernet port	Green LED: on=100 Mb, off=10 Mb; Amber LED: on=link okay, flashes with activity
Input impedance	75Ω/Hi-Z selectable	Network Management & Control	SNMP v2, MX™, HTTP API, HTML (password protected)
Video Motion Detection	Yes (user-defined masking)	Powering	
Encoding latency	<130 ms	Power consumption	<9W
Resolution	D1, 2/3D1, ½D1, 2CIF, CIF, QCIF, VGA	Rack-mount units	MC10 and MC11 power supply cabinets
GOP structure	I, IP (selectable)	Stand-alone units (/SA)	11 to 19 VDC (PSA-12 DC/25 or PSR-12 DC)
Frame rate	1 to 30 fps	Environmental	
Triple Streaming:*		Operating temperature	-40°C to +74°C (-40°F to +165°F)
25/30 fps MPEG-2	2xD1 + MJPEG	Relative humidity	<95% no condensation
25/30 fps MPEG-4	1xD1 + 1x 2CIF + MJPEG	MTBF	>200,000h
25/30 fps MPEG-2/MPEG-4	1x 2/3D1 + 1x 2/3D1 + MJPEG	Safety & EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15
Output data rate	Up to 14 Mb/s per channel (CBR or VBR selectable)	Mechanical	
Video Settings	User profiles, contrast, brightness, color saturation, hue, sharpness	Dimensions (h x w x d)	128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in.)
Video Overlay	3x Text lines (configurable: position, color, border/outline color, font size), 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)	Weight (approx.)	450g (15.80 oz.)
Live View encoder	HTTP, FTP pull, FTP push	Housing	Rack-mount or stand-alone (/SA)
Connector type	BNC 75Ω (gold-plated center pin)		
Data			
Number of channels	1 (full-duplex)		
Number of streams	2x 4 (multicast and/or unicast)		
Interfaces	1x RS-422/485 (2 or 4-wire)		
Stream	4x TX, 4x RX; TCP/UDP/MX configurable		
Data rate	300 b/s to 115 kb/s		
Connector type	RJ-45		
Transmission Interface			
Number of interfaces	1		
Interface	10/100Base-TX Fast ethernet, Autonegotiation, half-duplex/full-duplex, 10/100 Mb		
SFP option	Slot for 100Mbps SFP device		
Protocols	MPEG-4 ES, MPEG-2 TS, MPEG-2 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHCP, IGMPv2, (S)NTP, MX/IP, HTTP, SNMP v2, FTP, TelNet, DiffServ, SAP, UPnP		
Connector type	RJ-45		

*Indicated combinations are based on 100% DSP capacity



The quality management system utilized in the development, production, sales and support of this product is ISO 9001:2008 certified by LRQA.

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