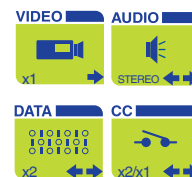


## Features

- MPEG-4 and MJPEG video encoder
- Image Quality Monitor and Tamper Detector
- Enhanced Video Quality
- Open Streaming Architecture
- Triple streaming support
- Duplex stereo audio
- Duplex serial data
- Video Motion Detection



## Description

The Siquira® S-50 E video server is a versatile and cost-effective solution, available in 19" rack-mount or compact housing (MSA). Utilizing MPEG-4 and MJPEG, it features low-latency, low-bandwidth and DVD quality MPEG-4 video and low-frame-rate MJPEG. It also features simultaneous streaming at different resolutions and frame rates.

### Image Quality Monitor and Tampering Alarm

The S-50 E 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 vertical resolution resulting in superior video images without artifacts.

### Open Streaming Architecture (OSA)

The S-50 E is designed with OSA offering standardized 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 S-50 E supports the unique Siquira® MX™ protocol.

### Fiber Option

The S-50 E models are available with an optional pluggable SFP slot for either multimode or single-mode fiber optic connections.

### Triple Streaming per Channel

The versatile S-50 E encoder is capable of streaming 2x MPEG-4 and MJPEG simultaneously. Each stream is optimized for its purpose, e.g. high-quality MPEG-4 for live viewing in combination with low-bandwidth, low-frame-rate MPEG-4 for storage or time-lapse MJPEG for web applications or remote devices.

### Audio, Data, and I/O Contacts

By combining streaming video with duplex audio, serial data, and I/O contacts over IP, the S-50 E 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 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® S-50 E is field-upgradeable.

## Ordering Information

Model	Description
S-50 E	MPEG-4 & MJPEG video server with audio, data, and CCs
S-50 E-SFP	MPEG-4 & MJPEG video server with audio, data, and CCs, empty 100 MB SFP slot
S-50 E-MSA*	MPEG-4 & MJPEG video server with audio, data, and CCs, compact
S-50 E-MSA/SFP*	MPEG-4 & MJPEG video server with audio, data, and CCs, empty 100 MB SFP slot, compact
S-50 E-MSA/PoE*	MPEG-4 & MJPEG video server with audio, data, and CCs, compact

\*Choose the correct power adapter for your region by adding /US for the Americas, /EU for Europe, or /UK for the UK.

# S-50 E(-MSA)

## Technical specifications

# MPEG-4/MJPEG video server

<b>Video</b>		<b>Transmission Interface</b>	
Video Channels	1x PAL/NTSC (Auto/PAL/NTSC)	Number of interfaces	1
Input level	1 Vpp (±3 dB)	Interface	10/100Base-TX Fast Ethernet, Autonegotiation, half-duplex/full-duplex, 10/100 Mb
Compression algorithm	MJPEG, MPEG-4 (ISO/IEC 14496-2, ISMA comp.)	SFP option	Empty SFP slot for 100 Mbps SFP device
Type of streaming	UDP/IP (multicast and/or unicast), (TCP/IP (RTP over RTSP)	Protocols	MPEG-4 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHCP, IGMPv2, (S)NTP, MX/IP, HTTP, SNMP v2, FTP, TelNet, DiffServ, SAP, UPnP
Number of output streams	Up to 20	Connector type	RJ-45
Input impedance	75Ω/Hi-Z selectable	<b>Management</b>	
Video Motion Detection	Yes (user-defined masking)	LED status indicators	
Encoding latency	<130 ms	DC (S-50 E-MSA:PWR)	Power-on indicator (green).
Resolution	D1, ½D1, 2CIF, CIF, QCIF, VGA	NV (S-50 E-MSA:VID)	No video on input (red);
GOP structure	I, IP (selectable)		S-50 E-MSA: Video present indicator
Frame rate	1 to 30 fps	SYNC (S-50 E only)	All links are operational (green);
Triple Streaming:*			failure in RX stream(s) (yellow);
25/30 fps MPEG-4	1xD1 + 1x2CIF + MJPEG		failure in TX stream(s) (red)
25/30 fps MPEG-4/MJPEG	1xD1 + 1xD1 + MJPEG	LNK (S-50 E-MSA)	Ethernet link operational
Output data rate	56 kb/s to 20 MB/s (CBR or VBR selectable/user profiles)	Ethernet port	Green LED: on=100 Mb, off=10 Mb;
Video Settings	User profiles, contrast, brightness, color saturation, hue, sharpness		Amber LED: on=link okay, flashes with activity
Video Overlay	3x Text lines (configurable: position, color, border/outline color, font size), 1x image in BMP, GIF, or JPEG format (configurable: position, scaling)	Network Management & Control	SNMP v2, MX™, HTTP API, HTML (password protected)
Live View encoder	HTTP, FTP pull, FTP push		
Connector type	BNC 75Ω (gold-plated center pin)	<b>Powering</b>	
<b>Audio</b>		Power consumption	<5W
Number of channels	2 (stereo, full-duplex)	Rack-mount units	MC10 and MC11 power supply cabinets
Number of streams	3 (multi- and/or unicast)	Stand-alone units (/SA)	11 to 19 VDC
Maximum bandwidth			(PSA-12 DC/25 or PSR-12 DC)
S-50 E	20 Hz to 20 kHz	S-50 E-MSA /PoE	IEEE 802.5 AF
S-50-MSA	20 Hz to 8 kHz	<b>Environmental</b>	
Sampling resolution	8/16-bits linear PCM or G.711	Operating temperature	-10°C to +60°C (+14°F to +140°F)
Input level	Adjustable, mic or line	Relative humidity	<95% no condensation.
Output level	Adjustable, 3 Vrms max.	MTBF	>200,000h
Input impedance	>20 kΩ (600Ω bal, S-50 E only)	Safety & EMC	IEC/EN 60950-1, IEC/EN 60825, IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15
Output impedance	<100Ω (Balanced, S-50 E only)		
Connector type		<b>Mechanical</b>	
S-50 E	RJ-45	S-50 E	
S-50-MSA	3.5 mm stereo jack	Dimensions (h x w x d)	128 x 34 x 190 mm (5.04 x 1.34 x 7.5 in.)
<b>Data</b>		Weight (approx.)	450g (15.80 oz.)
Number of channels	2 (full-duplex)	Housing	Rack-mount
Number of streams	2x 3 (multi- and/or unicast)		
Interfaces	1x RS-232, 1x RS-422/485 (2- or 4-wire)	S-50 E-MSA	
Stream	TCP/UDP/MX configurable	Dimensions (h x w x d)	34 x 86 x 111 mm (1.3 x 3.4 x 4.4 in.)
Data rate	300 b/s to 230.4 kb/s	Weight (approx.)	300g (10.54 oz.)
Connector type	RJ-45	Housing	Mini stand-alone
<b>Contact Closure</b>			
Number of channels			
S-50 E	2x in, 2x out		
S-50-MSA	2x in, 1x out		
Number of streams	2x 3 (multi- and/or unicast)		
Output	Fail-safe, potential-free		
Connector type			
S-50 E	RJ-45		
S-50-MSA	5-pin screw terminal		

\*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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