

Features

- 4-channel H.264 video server
- Open Streaming Architecture
- 2x D1@30fps H264 + MJPEG
- Duplex serial data
- Video motion detection
- Camera health check
- Camera tamper detection



Description

The Siquira® S-64 E H.264 video server is an open, versatile, and cost-effective 4-channel solution for IP video monitoring applications. Utilizing the full power of H.264, the S-64 E features low-latency, crystal clear, and highly detailed video.

Open Streaming Architecture (OSA)

The S-64 E is designed with a strong focus on standardization. Its OSA offers standardized streaming video and remote control. All streaming protocols are based on approved standards and tested with different vendors. A comprehensive HTTP API gives access to all controls and makes integration with third-party VMS easy. The API is available on Optelecom-NKF.com. In addition, the S-64 E supports Siquira's unique MX™ protocol.

Triple Streaming per Channel

Each channel can transmit two H.264 streams at different resolutions and frame rates simultaneously. Each stream is optimized for its purpose, e.g., full motion live viewing and low-bandwidth storage. In addition, the S-64 can transmit low-resolution MJPEG for web applications or remote devices (e.g., PDAs).

Camera Health Check & Tampering Alarm

The S-64 E is fitted with a unique feature that checks the health of the connected camera. This image quality monitor analyzes incoming images for contrast, exposure, sharpness and noise, and immediately alerts an operator if the camera or lens is malfunctioning in any way.

Camera tampering algorithms compare the incoming video with one or more predefined reference images to detect any changes in the cameras position or field of view, such as if the camera image becomes partially or fully blocked, or if mock-up images, such as a newspaper or photograph, are placed in front of the camera. In this way, the camera health check ensures that the appropriate authorities are notified the instant a cameras image is no longer usable due to camera failure or tampering.

Data

By combining streaming video with serial data over IP, the S-64 E provides the necessary interface for any CCTV application (PTZ control, access control, etc).

Web Interface

Configuration, management, and live viewing are simplified by the access-controlled web interface. Full in-band control is available through Siquira®'s MX™ Configuration Tool Kit or the HTTP API. The Siquira S-64 E is field-upgradeable.

Ordering Information

Model	Description
S-64 E	4-Channel H.264/MJPEG video encoder with data
S-64 E /SA	Stand-alone version of rack-mount models

S-64 E

Technical specifications

4-channel H.264 Video Server

Video		Management	
Video Channels	4x PAL/NTSC auto detect	LED status indicator	Power on and operational
Input level	1 Vpp (+/- 3 dB)	Network management & Control	SNMP, MX™, HTTP API (v1.5), HTML (password protected)
Compression algorithm	H.264 (ISO/IEC 14496-10)		
Type of streaming	UDP/IP		
	(Unicast, multicast, multi-unicast)	Powering	
Number of output streams	up to 20	Power consumption	7.5W at 12Vdc
Input impedance	75 Ω or Hi-Z	Environmental	
Encoding latency	<130 ms	Operating temperature	+14°F to +140°F (-10°C to +60°C)
Resolution	D1, 2/3D1, ½D1, 2CIF, CIF, QCIF, VGA	Relative humidity	< 95% no condensation
GOP structure	I, IP	MTBF	>200,000 hours
Frame rate	1 to 30 fps	Safety & EMC*	EN 50155, EN 50121-3-2, conform CE regulations, UL
Number of encoders	2x H.264 (each D1@30fps max) + MJPEG (LiveView) per input	Vibration & shock*	EN 50155, EN61373
Output data rate	56 kb/s up to 4 Mb/s per encoder (2 per input)	Mechanical	
Video parameters	Contrast, brightness, hue and saturation	Dimensions (h x w x d)	Approx 128 x 34 x 190mm
Video Overlay	3x text lines (fully configurable), 1x Graphical image (BMP, GIF or JPEG)	Housing	Rack-mount or stand-alone
Live View encoder	HTTP stream or "pull"		
Connector type	BNC (gold-plated centerpin)		
Data			
Number of channels	1x (full-duplex)		
Interfaces	1x RS-422/485 (2- or 4-wire)		
Stream	TCP/UDP/MX configurable		
Data rate	300 b/s to 115 kb/s		
Connector type	RJ-45		
Video Analytics			
VMD	Based on movement detection in free drawn ROI, per input.		
Camera Health Check			
Tamper detection	In free-drawn ROI: blocked and partially blocked view, spraying, cloaking, position changed, per input.		
Image quality monitoring	In free-drawn ROI: focus, contrast, exposure, and noise measurement per input.		
Transmission Interface			
Number of interfaces	1x		
Interface	10/100Base-TX Fast-Ethernet, Auto-Negotiation, HD/FD, 10/100 Mb selectable		
Protocols	H.264 BP, (M)JPEG, RTP, RTSP, RTCP, DHCP, SNMPv2, IGMPv2, NTP, HTTP, SAP, UPnP, DiffServ, TelNet, FTP		
Connector type	RJ-45		

* certification/approval pending



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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