

SAM-1000 / 1100 / 1200

1-Channel MPEG2 Encoder



INCORPORATED

Sophisticated Security and Surveillance Systems

Features

- ✓ Enables professional, broadcast-quality synchronized MPEG-2 video over a network
- ✓ Fully integrated with the DSS
- ✓ Ethernet interface
- ✓ Power Over Ethernet (SAM-1000)
- ✓ Customizable compression bit rate per encoder
- ✓ Wall mount option
- ✓ Hardware watchdog
- ✓ Programmable IP Address



Description

The SAM-1000/1100/1200 is an MPEG-2 single-channel encoder that enables an integrator to utilize existing TCP/IP networking infrastructure in order to distribute video without the additional cost of installing coaxial camera cabling. It is integrated with the DSS, providing the following benefits:

- Interface with existing corporate Ethernet networks
- Ethernet connectivity provides a significant cost saving over systems that are forced to use fiber
- No hardware setup within the DSS unit; encoders are installed on the network, and then configured in DSS software
- Full integration within the existing DSS interface, so that the encoder appears as simply another camera on the network
- Simplify cabling by locating encoders near to cameras
- Implement virtual video matrix switchers with the network
- The compression ratio and resolution can be scaled independently for each encoder, providing the following benefits:
 - Optimum image quality under all conditions
 - Flexible customization of encoders to optimize network bandwidth

Specifications

Model			
SAM-1000 / 1100 / 1200	1-Channel MPEG2 Encoder		
General	SAM-1000	SAM-1100	SAM-1200
Video format	NTSC		
Video Connection	BNC, 1 composite video baseband signal (CVBS)		
Video Compression	MPEG2, separate motion detection stream		
Video customization	Selectable GOP size and structure, configurable MPEG2 bitrate to a maximum of 4Mbits, selectable frame rate from 1 to 25 fps		
Bi-directional audio	Y	Y	N
Audio Connection *	3mm stereo mini jack, audio source of 1 volt peak to peak		
Audio Specification	MPEG 1 - Layer 2		
Power Over Ethernet option	Y	N	N
Power consumption	At startup 12W (or 12V power supply that can source 1A). During operation 8W.		
RS232 serial port	(1) with DB9 interconnects		1
RS422 serial port	(1) with DB9 interconnects, fully isolated ground and power lines, supporting a maximum bit rate of 230kbit/s		0
Opto-isolated alarm input	(2) debounced with 200 ms period, reporting edge changes back to DSS		0
Relay output	(1) permits max of 1 Amp at 12 volts across the non-polarized output		0
Ethernet	100BaseT RJ45 single RJ11 connector Ethernet mac supports 10/100 Mbit/s Ethernet TCPIPv4 protocol stack embedded in the encoder IP address is programmable via serial port		
Software	Configuration via catPro professional software, operation via catSite site management software		
Mounting option	Wall-mount bracket available		
Operating temp	0°C to 55°C Ambient (32°F to 131°F)		
Physical dimensions	0.75 kg (1.6 lbs), no larger than 220 x 105 x 40mm. (8.6 x 4 x 1.5 inches)		
Approvals	CE electromagnetic radiation and susceptibility tests		
Enclosure / Environment	IP rating 50. The enclosure is not waterproof. The SAM-1x00 should only be installed indoors.		

* A microphone is required to be connected to a preamplifier before connecting to the Encoder. For Audio Out it is advisable to use an amplifier (with volume control). Sound is audible without an amplifier, but the user cannot adjust the volume, which may be too low for the requirement.