UTC Fire & Security
A United Technologies Company

Product Data Sheet

SYMSAFE-P16-640EA

Uniqueness

SymSafe Pro 16 introduces "hybrid" recording that works with both conventional analog cameras and the new family of GE digital network products. This unique platform provides a graceful migration path to digital recording – the future of video recording – and at the same time allows continued use of existing analog equipment.

Real-Time Hi-Quality

With the SymSafe Pro 16, users can record up to full-size images in real time on every channel. Using MPEG-4 compression, SymSafe Pro 16 records 25 frames per channel, per second – at 2CIF resolution. MPEG-4 technology produces small but high-quality files for network streaming. SymSafe Pro 16 incorporates Triplex functionality for simultaneous viewing, playback, and recording of video. It offers 16 channels of analog recording and two channels of digital recording, all up to D1 resolution (720 x 576).

Versatile

SymSafe Pro 16 includes full search capabilities by time, date, motion, and alarms. Each unit features alarm handling with a history log and alarm notification via e-mail.

Networking

SymSafe Pro 16 can be easily networked and viewed remotely via 10/100/1000 BaseT Ethernet. The recorders utilize Dynamic IP Addressing (DHCP) and support Dynamic Domain Name Server (DDNS). GE Security software allows viewing of live and recorded video from multiple SymSafe Pro 16 units.

Modern

A sleek and modern front panel makes the SymSafe Pro 16 easy to set up and use. Hard drive sizes from 320GB to 1.5TB are available with the SymSafe Pro 16 to fit all of your storage needs.

Standard Features

- Real-time recording on ALL channels @ 2CIF resolution
- Variable record speed settings pending on resolution used
- Hybrid DVR with up to 2 IP camera streams
- 2 audio inputs
- Sleek modern interface
- Unique alarm indicator light bar
- Integrated SymSuite solution: SymNav and SymBrowser
- Up to 1.5 TB internal storage
- Cooling Tunnel™ design extends hard drive life
- DVD burner
- Supports USB mouse and ThumbDrive
- Included IR remote
- VGA and composite video outputs

SYMSAFE-P16-640EA

Specifications

Video

Inputs	16 looping BNC connectors, NTSC/EIA or PAL/CCIR compatible; auto-terminating	
Conditioning	AGC, 0.7 to 1.4.0 V pk-pk video accepted	
Horizontal resolution	720 pixels	
Vertical resolution	576 lines	
Video compression standard	MPEG-4	
Monitor A composite	One monitor A multiscreen output, BNC connector, NTSC/EIA or PAL/CCIR compatible	
VGA	Same display content as monitor A	
Monitor B composite	One monitor B multiscreen output, BNC connector, NTSC/EIA or PAL/CCIR compatible	

Audio

Audio input	315 mV, 400 kOhms, unbalanced, RCA (2)
Audio output	315 mV, 600 ohms, unbalanced, RCA (1)
Audio compression standard	MPEG-1

Recording

Speed	All channels in realtime at 2CIF
Resolution	Up to full D1
Quality settings	6
Bandwidth	Up to 2 Mbit/sec. per ch. scalable

Network

Type	10/100/1000 Ethernet port: RJ-45
Protocol	TCP/IP, UDP, DHCP

Archive

External	USB ThumbDrive
Internal	DVD burner

Connectors

RS-232 serial port	1 DB-9
RS-485/422	2
USB	2 (1 at front and 1 at back)

Alarm Handling

Alarm input	16 programmable NO/NC
Alarm output	Form C alarm relay (2)

Video motion and activity detection

Zones per camera	256, 16 x 16 grid

Recording

Hard drive	2-HDD S-ATA with Cooling Tunnel design extends hard drive life

Operation

Languages	7
Control	USB Mause, Jog/Shuttlle, IR remote
	Push buttons
Alarm indication	
	Unique indication bar
Alarm acknowledgement	Yes

Miscellaneous

Input voltage	120 to 240 VAC, autoranging
Operating temperature	0 to 40°C
Dimensions (HxWxD)	89 x 395 x 420 mm
Weight	11kg

Regulatory

	FCC, CE, UL
Relative humidity	10 to 95%, noncondensing

Robustness

A unique Cooling Tunnel design keeps each hard drive cooler to extend its life. A form factor that measures one rack unit wide by 2U high allows SymSafe Pro 16 to fit easily into a standard 19-inch rack.

Ordering Information

Part No.	Description
SYMSAFE-P16-640EA	Professional hybrid DVR with 16 analog inputs & 2 IP streaming ports, real-time 2CIF, 2ch. audio, 640GB HDD, Web-browser and SymNav 1.80 supported

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