



ROLLAND
CENTURIES OF SECURITY

FLIR **MPX**[™]

M3104E1B4 *Full HD Security System*



M3104E1B4
4 cameras, 4 channels, 1TB HDD

The FLIR MPX 4-Channel Security System uses the latest HD-CVI technology, giving you the flexibility to upgrade to full HD resolution using existing coax cabling. Ideal for retrofit, MPX makes upgrading to HD easier than ever – connect the included eyeball dome cameras to existing coax for a hassle-free upgrade. Our free FLIR Cloud[™] apps provide easy remote access anywhere you go via iOS, Android, PC or Mac. Supports FLIR MPX cameras, as well as standard analog cameras for maximum flexibility.

HD PICTURE QUALITY

Experience outstanding 1080p resolution over coax

- 2.1MP HD 1/2.7" IR dome cameras included, 3.6mm lens
- 1080p (1928 x 1088) resolution @ real-time (25/30fps per channel)
- IR night vision range up to 80ft (24m)

EASY INSTALLATION

Upgrade to HD without the expense of re-cabling

- Standard BNC connection – no networking complexities
- Upgrade analog systems to HD without the expense of re-cabling
- All-in-one DVR & security camera bundles include the full system plus HDD

SUPERIOR PERFORMANCE

Virtually no latency, even with extended cable runs

- Smooth real-time viewing with zero video latency
- Extended cable runs of up to 1000ft (305m)
- Two-way communication over coax allows for easy connection and control of PTZ cameras (PTZ cameras sold separately)

QUICK & SECURE REMOTE VIEWING

Remote access via iOS, Android, PC & Mac with FLIR Cloud[™]

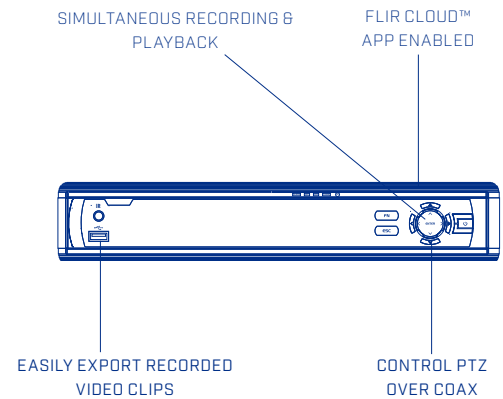
- Set up remote viewing in 3 easy steps: install FLIR Cloud[™] app, scan QR code on DVR and start viewing live video
- Multisite viewing with FLIR Cloud[™] CMS for PC & Mac



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Specifications

DVR Specifications		M3104E1B4
System		
Operating System	Linux (embedded)	
Pentaplex	Simultaneous view, record, playback, backup & remote monitoring	
Number of Channels	4	
Inputs/Outputs		
Video IN	4 x 1Vp-p, BNC	
Video OUT	Yes,1 VGA & 1 HDMI	
VGA OUT	Yes	
HDMI	Yes	
Audio IN	1 channel (RCA), supports 2-way talk	
Audio OUT	1 channel (RCA), supports 2-way talk	
USB Port	1 at the back, 1 at the front	
Alarm IN	None	
Alarm OUT	None	
Video Output Resolution	1920x1080 (HDMI), 1280x1024, 1024x768	
PTZ Control	RS-485 Pelco D & P Protocol	
Display		
Live Display	1, 4	
Live Display Speed	120 NTSC, 100 PAL	
OSD	ON/OFF	
System Navigation	USB mouse, IR remote controller, front panel	
Motion Area Setting	Fixed grid 396 (22x18) NTSC&PAL	
Sensitivity	100	
Firmware Upgrade	Via USB device / Network	
User Authority	By user group	
Time Synchronization	Auto time sync by NTP server	
Recording		
Video Compression	H.264	
Audio Compression	G.711	
Recording Resolution*	NTSC: 1080p (1920x1080), 720p (1280x720), 960x480, 704x480, 352x480, 704x240, 352x240, 176x120 PAL: 1080p (1920x1080), 720p (1280x720), 960x576, 704x576, 352x288, 176x144	
Recording Resolution Setting	Per camera for different resolutions	
Recording Quality Control	5 levels	
Recording Schedule	By hour, by day, by recording mode, by motion, by alarm, by channel	
Pre Recording	Max. 30 Seconds	
Post Recording	Max. 5 min / Min. 10 Sec	
Reliability	Watch-Dog, auto-recovery after power failure	
Covert Video	Yes	
Playback		
Playback	1 / 4	
Playback Speed	Variable max 4x	
Playback Players	Backup Player	
Search	By Time/Date, MD & Exact search (accurate to second)	
Log Search	Up to 1,000 lines for motion detected, configuration changes, connects/disconnects and video loss	
Audio Play	Yes	
Storage & Archive		
Storage	1 HDD (SATA)	
Maximum Capacity	Up to 4TB	
Backup Media	USB flash drive & HDD & Network	
Backup File Format	DAV or ASF file	
Connectivity		
Cloud Connection	FLIR Cloud™	
Supported Operating Systems	Windows™, Mac OSX	
Remote Software	Client Software (PC) & Safari (Mac)	
Email Notification	Text with snapshot	
Instant Smart Phone & Tablet Support	FLIR Cloud™ iPad®, iPhone®, Android™ apps	
DDNS Free	Free FLIR DDNS	
System Configuration	Full setup configuration over network	
Ports	Programmable by User	
Network Protocol	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter	
Network Interface	10/100-Base-TX, RJ-45	
Network Speed Control	96Kb ~ 4096kb/sec. per camera	
DVR General Information		
Power Consumption	Approx. 10 watts (No HDD Installed)	
Supply Voltage	100VAC-240VAC, 12VDC, 2A, 50/60Hz	
Unit Dimensions (W x D x H)	12.8 x 10 x 2.2" / 325 x 255 x 55mm	
Unit Weight	3.3 lb / 1.5 kg (without HDD)	
Operating Temperature	14° ~ 131° F / -10° ~ 55° C	
Humidity	10 ~ 90% RH	



* 1080p MPX cameras are required to take advantage of 1080p recording. You may need to upgrade the DVR firmware to enable 1080p recording.

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Specifications

Camera		ME343S
Imaging Device		2.1 MP HD 1/2.7"
Effective Pixels		1928 (H) x 1088 (V)
Imager Type		CMOS
Image Readout		Progressive Scan
Day / Night		Auto (ICR) / Color / B/W
Mechanical IR Cut Filter		Yes
Min. Illumination		0.1 lux @ F1.2 (Color) 0.01 lux @ F1.2 (B/W)
S/N Ratio		≤39dB
Horizontal Field of View		80° (H) field of view
IR Illumination Distance		80ft (24m) IR Night Vision
IR Wavelength		840~850nm
IR On / Off Control		N
Video Output		BNC (1080p Multi-format / 960H Analog CVBS)
Electronic Shutter Range		1/30~1/100,000
Optical		
Lens Type		Fixed
Mount Type		Board Type
Iris Type		Fixed Iris
Iris Control Type		AIS
Focal Length		3.6mm
Aperture		F2.0
Optical Zoom		N/A
Focus		Fixed
Video		
Frame rates (Maximum)		1080p @ 25/30fps
Wide Dynamic Range		DWDR
Dynamic Range		N/A
Backlight Compensation		BLC / HLC
White Balance		ATW / Manual
Gain Control		Adjustable
Noise Reduction		2D DNR
Smart IR		Yes
Digital Zoom		No
Video Mirroring/Rotation		No
Video Overlay		No
Window Blanking (Privacy)		No
Defog		No
Menu Languages		English, Spanish, Italian, French, Russian, Greek, Simplified Chinese, Korean, Portuguese
Mechanical		
Material		Aluminum Alloy
Product Dimensions (Dia x H)		3.7 x 2.5" 93 x 64mm
Product Weight		0.9lbs / 0.4kg
Electrical		
Analog Video Out (service only)		No
Power Input		12V DC
Power Consumption (maximum)		3.3W
Current Consumption (maximum)		270mA
Additional Features		
Built-in Heater		N/A
Audio I/O		N/A
Alarm I/O		N/A
Environmental		
Storage Temperature		-40°F ~ +140°F / -40°C ~ +60°C
Storage Humidity		Less than 95% RH
Operating Temperature		-22°F ~ +140°F / -30°C ~ +60°C
Operating Humidity		Less than 85% RH
Cold Start Temperature		-22°F / -30°C
Ingress Protection		IP66 Rated
Vandal Resistance		No
Certifications		
Certifications		CE / FCC / RoHS

