



M3100E / M3100EP Series  
4/8/16 channel DVR

# FLIR MPX™

## Megapixel Over Coax DVR

FLIR's M3100E Series DVRs use the latest HD-CVI technology, giving you the flexibility to upgrade your security systems to 1080P HD resolution using existing coax cabling. With support for both HD resolution MPX cameras, and standard analog cameras, the DVR is ideal for retrofit applications. MPX also facilitates advanced features previously unavailable over a coax cable including duplex transmission for PTZ control, audio transmission, and extended distance cable runs up to 2300 ft / 700m.

### HIGH DEFINITION QUALITY

*Experience outstanding HD resolution over existing coax with up to 1080p resolution. Offers reliable identification with selectable area digital zoom*

- Supports 1080p (1920x1080), 720p (1280x720), 960H (960x480) resolution
- MPX format is compatible with HD-CVI and analog

### EASY INSTALLATION

*Upgrade systems to HD quality without networking complexities or the expense of re-cabling, with the option of maintaining previously installed analog cameras.*

- Standard BNC connection – ideal upgrade on existing coax cable
- Supports both HD and SD analog simultaneously

### SUPERIOR PERFORMANCE

*Zero latency, even with cable lengths up to 700 meters. 2-way communication over coax allows for easy connection and control of PTZ cameras (PTZ cameras sold separately).*

- Smooth real-time viewing with zero video latency
- Extended cable runs of up to 2300ft (700m)
- Two-way communication over coax allows for easy connection and control of PTZ cameras (PTZ cameras sold separately)

### FLIR CLOUD – QUICK & SECURE REMOTE VIEWING

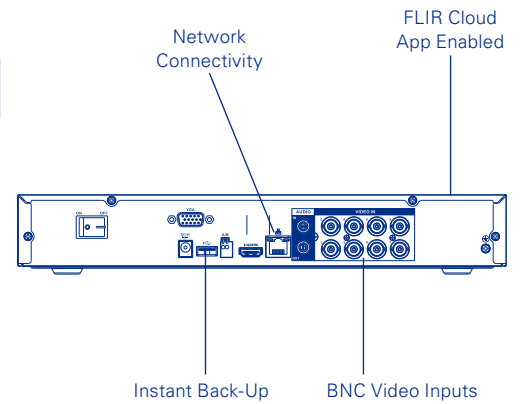
*Remote access via iOS, Android, PC / Mac with FLIR Cloud*

- Set up remote viewing in three easy steps: install FLIR Cloud app, scan QR code on DVR, view live video
- Multisite viewing on FLIR Cloud CMS for PC / Mac
- Cloud platform will offer premium services to receive Video Surveillance as a Service (VSaaS)



## Specifications

DVR Specifications		M3100E/P Series	
<b>System</b>			
Operating System	Linux (embedded)		
Pentaplex	Simultaneous view, record, playback, backup & remote monitoring		
Number of Channels	4/8/16 Channels — MPX Cameras Required		
<b>Inputs/Outputs</b>			
Video IN	4/8/16 x 1Vp-p, BNC		
Video OUT	Yes, 1 VGA & 1 HDMI		
VGA OUT	Yes		
HDMI IN	Yes		
Audio IN	Audio IN 1 channel (RCA), supports 2-way talk		
Audio OUT	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		
<b>Display</b>			
Live Display	4 ch: 1, 4 8 ch: 1, 4, 8 16 ch: 1, 4, 8, 9, 16		
Live Display Speed	4 ch: 120 NTSC, 100 PAL 8 ch: 240 NTSC, 200 PAL 16 ch: 480 NTSC, 400 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		
<b>Recording</b>			
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 Frame Rate	NTSC 4 ch: 60FPS@1080P 120FPS@ 720P 8 ch: 120FPS@1080P 240FPS @ 720P 16ch: 240FPS@1080P 480FPS@720P PAL 4 ch: 48FPS @ 1080P 100FPS @ 720P 8 ch: 96FPS@1080P 200FPS @ 720P 16ch: 192FPS@1080P 400FPS@720P		
Recording Resolution Setting	Per camera for different resolutions		
Recording Quality Control	6 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		
<b>Playback</b>			
Playback Channel	4 ch: 1 / 4, 8 ch: 1 / 4 / 8, 16ch: 1 / 4 / 8 / 16		
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		
<b>Storage &amp; Archive</b>			
Storage	1 HDD (SATA)		
Maximum Capacity	Up to 4TB		
Backup Media	USB flash drive & HDD & Network		
Backup File Format	DAV or ASF file		



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

## Specifications

<b>DVR Specifications Cont. M3100E/P Series</b>	
<b>Connectivity</b>	
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 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
<b>DVR General Information</b>	
Power Consumption	Approx. 10 watts (No HDD Installed)
Supply Voltage	4/8 ch: 100VAC-240VAC, 12VDC, 2A, 50/60Hz 16 ch: 100VAC-240VAC, 12VDC, 3A, 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

### Ordering Information

#### NTSC models

M3104E0: 8-41430-01218-4 (4ch, no HDD)  
M3104E1: 8-41430-01219-1 (4ch, 1TB HDD)  
M3104E2: 8-41430-01220-7 (4ch, 2TB HDD)  
M3108E0: 8-41430-01221-4 (8ch, no HDD)  
M3108E1: 8-41430-01246-7 (8ch, 1TB HDD)  
M3108E2: 8-41430-01222-1 (8ch, 2TB HDD)  
M3116E0: 8-41430-01223-8 (16ch, no HDD)  
M3116E2: 8-41430-01224-5 (16ch, 2TB HDD)

#### NTSC models

M3104E0P: 8-41430-01321-1 (4ch, no HDD)  
M3104E2P: 8-41430-01322-8 (4ch, 2TB HDD)  
M3108E0P: 8-41430-01323-5 (8ch, no HDD)  
M3108E2P: 8-41430-01324-2 (8ch, 2TB HDD)  
M3116E0P: 8-41430-01325-9 (16ch, no HDD)  
M3116E2P: 8-41430-01326-6 (16ch, 2TB HDD)

### Package Dimensions

14.6 x 4.5 x 12" / 370 x 115 x 305mm

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