



M4400 Series

# FLIR MPX™

## Megapixel Over Coax DVR

FLIR's M4400 Series DVR uses 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 plus 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.

### HIGH DEFINITION QUALITY

*Experience outstanding Megapixel resolution*

- 1080p (1920x1080), 720p (1280x720), 960H (960x480) resolution @ real time (30/25fps)
- MPX format is compatible with HD-CVI and SD-analog
- M4400 series also supports FLIR 1080p IP cameras

### EASY INSTALLATION

*Ideal for retrofit – upgrade to HD video over existing coax cable*

- Standard BNC connection – no networking complexities
- Supports both HD and SD analog simultaneously

### SUPERIOR PERFORMANCE

*Zero latency and extended cable runs*

- 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)



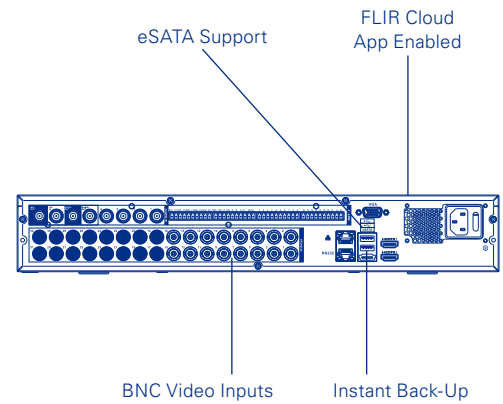
### FLIR CLOUD – QUICK & SECURE REMOTE VIEWING

*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 System		M4400 Series	
Operating System	Linux (embedded)		
Pentaplex	Simultaneous view, record, playback, backup & remote monitoring		
Number of Channels	16 channel — MPX or analog cameras + 16 channel — FLIR IP cameras		
Inputs/Outputs			
Video IN	16 x 1Vp-p, CVBS, 75ohms, BNC		
BNC Video OUT	Yes		
VGA OUT	Yes		
HDMI OUT	Yes, 2 x HDMI outputs		
Audio IN	4 channel, BNC for audio record 1 x MIC IN, BNC / 1 x MIC OUT, BNC for 2-way audio		
Audio OUT	1 channel, BNC		
USB Port	3 x USB 2.0 (2 at the back, 1 at the front)		
Alarm IN	16 ch		
Alarm OUT	6 ch		
Video Output Resolution	1920x1080 (HDMI), 1280x1024, 1024x768		
PTZ Control	Via Coax and RS485, supports Pelco D and P		
Display			
Live Display	16 ch: 1, 4, 8, 9, 16		
Live Display Speed	16 ch: 480 NTSC, 400 PAL		
OSD	Camera title, time, video loss, camera lock, motion detection, recording		
System Navigation	USB mouse, IR remote controller, front panel		
Motion Area Setting	Adjustable grid (22x18)		
Sensitivity	100		
Firmware Upgrade	Automatic over the Internet & via USB device and 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: 1920x1080 (1080p), 1280x720 (720p), 960x480 (960H), 704x480 (D1), CIF (352x240) PAL: 1920x1080 (1080p), 1280x720 (720p), 960x576 (960H), 704x576 (D1), CIF (352x288)		
Recording Frame Rate (FPS)	NTSC: 480 @ 1080p / 720p PAL: 400 @ 1080p / 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 channel		
Pre Recording	Max. 30 Seconds		
Post Recording	Max. 5 Minutes		
Reliability	Watch-Dog, auto-recovery after power failure		
Covert Video	Yes		
Playback			
Playback Channel	1 / 4 / 8 / 16		
Playback Speed	Variable Max 4x		
Playback Players	Backup Player		
Search	By time & event		
Log Search	Up to 1,000 lines for motion detected, configuration changes, connects/disconnects and video loss		
Audio Play	Yes		
Storage & Archive			
Storage	Up to 4 HDD's SATA (internal) Up to 4 HDD's eSATA (external)		
Maximum Capacity	Up to 16TB (4 x 4TB) internal + up to 16TB (4 x 4TB) external		
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.

## Specifications

<b>DVR Specifications Cont.</b>		<b>M4400 Series</b>
<b>Connectivity</b>		
Cloud Connection	FLIR Cloud™	
Supported Operating Systems	Windows™, Mac OSX	
Remote Software	Client Software (PC/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	10/100/1000-Base-TX, RJ-45	
Network Speed Control	160MB total, 48Kb ~ 8192 Kb/sec. per camera	
<b>DVR General Information</b>		
Power Consumption	Approx. 40 watts (No HDD Installed)	
Supply Voltage	AC 100~240 V, 50/60 Hz	
Unit Dimensions (W x D x H)	17.3" x 16.1" x 2.8" / 440mm x 410mm x 70mm	
Unit Weight	13.2lbs / 6.0kg (without HDD)	
Operating Temperature	32° ~ 104° F / 0° ~ 40° C	
Humidity	10 ~ 90% RH	

### Ordering Information

#### NTSC models

M44160: 8-41430-01021-0 (16ch, no HDD)  
 M44162: 8-41430-01022-7 (16ch, 2TB HDD)  
 M44163: 8-41430-01262-7 (16ch, 3TB HDD)  
 M44164: 8-41430-01028-9 (16ch, 4TB HDD)  
 M44166: 8-41430-01279-5 (16ch, 6TB HDD)  
 M44168: 8-41430-01255-9 (16ch, 8TB HDD)  
 M441612: 8-41430-01284-9 (16ch, 12TB HDD)  
 M441616: 8-41430-01254-2 (16ch, 16TB HDD)

#### PAL models

M44160P: 8-41430-01193-4 (16ch, no HDD)  
 M44162P: 8-41430-01194-1 (16ch, 2TB HDD)  
 M44163P: 8-41430-01195-8 (16ch, 3TB HDD)  
 M44164P: 8-41430-01196-5 (16ch, 4TB HDD)  
 M44166P: 8-41430-01197-2 (16ch, 6TB HDD)  
 M44168P: 8-41430-01198-9 (16ch, 8TB HDD)  
 M441612P: 8-41430-01199-6 (16ch, 12TB HDD)  
 M441616P: 8-41430-01200-9 (16ch, 16TB HDD)

#### Package Dimensions

20.1 x 7.1 x 18.9" / 510 x 180 x 480

#### MARKHAM, ONTARIO

FLIR Systems, Inc.  
 250 Royal Crest Court  
 Markham, ON L3R 3S1  
 Canada  
 PH: +1 866.344.4674

#### PORTLAND

Corporate Headquarters  
 FLIR Systems, Inc.  
 27700 SW Parkway Ave.  
 Wilsonville, OR 97070  
 USA  
 PH: +1 866.477.3687

[www.flir.com/security](http://www.flir.com/security)  
 NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2015 FLIR Systems, Inc. All rights reserved. (Created 06/24/2015)