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

### M3100E/P Series

#### System
- **Operating System**: Linux (embedded)
- **Pentaplex**: Simultaneous view, record, playback, backup & remote monitoring
- **Number of Channels**: 4/8/16 Channels — MPX Cameras Required

#### Inputs/Outputs
- **Video IN**: 4/8/16 x 1Vp-p, BNC
- **Video OUT**: Yes, 1 VGA & 1 HDMI
- **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

#### Display
- **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

#### Recording
- **Video Compression**: H.264
- **Audio Compression**: G.711
- **Recording Resolution**: NTSC: 1080p (1920x1080), 720p (1280x720), 960x480, 704x480, 352x480, 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. 5min / Min. 10 Sec
- **Reliability**: Watch-Dog, auto-recovery after power failure
- **Covert Video**: Yes

#### Playback
- **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

#### 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

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

<table>
<thead>
<tr>
<th>DVR Specifications Cont.</th>
<th>M3100E/P Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Connectivity</strong></td>
<td></td>
</tr>
<tr>
<td>Cloud Connection</td>
<td>FLIR Cloud™</td>
</tr>
<tr>
<td>Supported Operating Systems</td>
<td>Windows™, Mac OS X</td>
</tr>
<tr>
<td>Remote Software</td>
<td>Client Software (IP) &amp; Safari (Mac)</td>
</tr>
<tr>
<td>Email Notification</td>
<td>Text with snapshot</td>
</tr>
<tr>
<td>Instant Smart Phone &amp; Tablet Support</td>
<td>FLIR Cloud™ iPad®, iPhone®, Android™ apps</td>
</tr>
<tr>
<td>DDNS</td>
<td>Free FLIR DDNS</td>
</tr>
<tr>
<td>System Configuration</td>
<td>Full setup configuration over network</td>
</tr>
<tr>
<td>Ports</td>
<td>Programmable by User</td>
</tr>
<tr>
<td>Network Interface</td>
<td>10/100-Base-TX, RJ-45</td>
</tr>
<tr>
<td>Network Speed Control</td>
<td>96Kb ~ 4096Kb/sec. per camera</td>
</tr>
</tbody>
</table>

## DVR General Information

<table>
<thead>
<tr>
<th><strong>Power Consumption</strong></th>
<th>Approx. 10 watts (No HDD installed)</th>
</tr>
</thead>
</table>
| **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)
- **M3108E0**: 8-41430-01220-7 (4ch, 2TB HDD)
- **M3108E0**: 8-41430-01221-4 (8ch, no HDD)
- **M3108E0**: 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