

# FLIR IP™

## DN7164E12

### QUAD HD PoE+ NVR System



DN7164E12

12 x 4MP Cameras, 16 Channels, 4TB HDD

The **FLIR Quad HD PoE+ NVR System** combines a 4K Ultra HD recorder with 12 x 4MP weatherproof eyeball domes for HD recording on every channel. True WDR capability up to 100dB ensures excellent image quality around the clock, and H.265 delivers improved compression efficiency for significant hard drive space savings. Installation is made simple with the NVR's 16 x integrated PoE+ ports and auto-detection of IP cameras upon connection.

#### HIGH PERFORMANCE VIDEO PROCESSING

*Flexible video recording up to 4K resolution*

- 320Mbps network bit rate (48~8192 kbps/ch)
- Supports high definition recording with cameras up to 8MP (4K)
- Pentaplex operation – simultaneous viewing, recording, playback, backup & remote monitoring

#### EASY INSTALLATION

*Integrated PoE inputs for quick, convenient connection*

- 16 integrated PoE+ ports
- 130 Watts total PoE (max 25W per channel)
- Auto-discovery of FLIR IP cameras with no programming

#### 4MP CAMERAS INCLUDED

*HD recording for excellent image detail and clarity*

- 12 x P143E4 – 4MP (2688 x 1520) @ 20fps, 90° (H) field of view, 82ft (25m) IR night vision range
- 3-Axis design for wall/ceiling mounting
- IP66 weatherproof rated & cold climate capable (-22°F / -30°C)

#### QUICK & SECURE REMOTE VIEWING

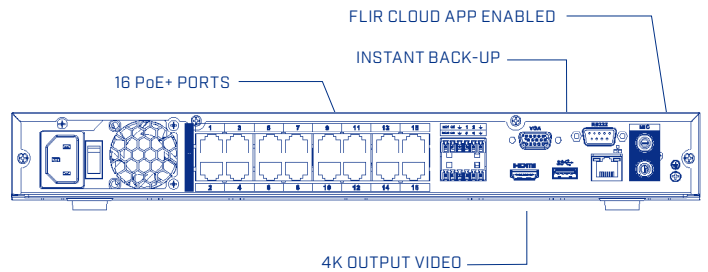
*Remote access via iOS, Android, PC & Mac with FLIR Cloud™*

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



# Specifications

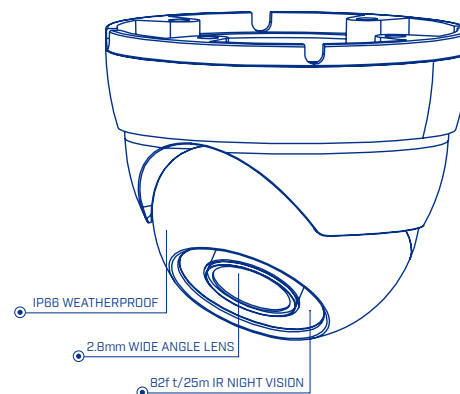
| NVR  |   | DNR7164 |
|--|---|---------|
| <b>System</b>                                |   |         |
| Operating System                             | Linux (embedded)  |         |
| Pentaplex                                    | Simultaneous view, record, playback, backup & remote monitoring                                   |         |
| Number of Channels                           | 16 Channels   |         |
| <b>Inputs/Outputs</b>                        |   |         |
| Video IN                                     | 16 PoE Video Inputs   |         |
| Video OUT                                    | No  |         |
| VGA OUT                                      | Yes   |         |
| HDMI   | Yes   |         |
| Audio IN                                     | 1 Line IN (RCA) for service only  |         |
| Audio OUT                                    | 1 Line OUT (RCA) for service only   |         |
| USB Port                                     | 1 at the back, 1 at the front   |         |
| Alarm IN                                     | 4 Alarm IN  |         |
| Alarm OUT                                    | 2 Alarm OUT   |         |
| Video Output Resolution                      | 3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768   |         |
| PTZ Control                                  | FLIR IP PTZ cameras only  |         |
| <b>Display</b>                               |   |         |
| Live Display                                 | 1,4,8,9,16  |         |
| Live Display Speed                           | 480fps NTSC, 400fps PAL   |         |
| OSD  | ON/OFF  |         |
| System Navigation                            | USB mouse, IR remote controller, front panel buttons  |         |
| Motion Area Setting                          | Fixed grid (22x18)  |         |
| Sensitivity Levels                           | 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  |         |
| <b>Recording</b>                             |   |         |
| Video Compression                            | H.264 / H.265   |         |
| Audio Compression                            | G.711   |         |
| Recording Resolution                         | 720p (1280x720), 1080p (1920x1080) ~ 4K-8MP (3840x2160)   |         |
| Record Rate                                  | 16ch: 480fps@720p/1080p/3MP/4MP/8MP   |         |
| Recording Quality Control                    | 6 levels  |         |
| Recording Schedule                           | By hour, by day, by recording mode, by motion, by alarm, by channel                               |         |
| Pre Recording                                | Max. 4 Seconds  |         |
| Post Recording                               | Max. 5 Minutes  |         |
| Reliability                                  | Watch-Dog, auto-recovery after power failure  |         |
| Covert Video                                 | Yes   |         |
| <b>Playback</b>                              |   |         |
| Playback Channel                             | 1/4/8   |         |
| Playback Speed                               | Variable Max 16x  |         |
| 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 (audio camera required)   |         |
| <b>Storage &amp; Archive</b>                 |   |         |
| Storage                                      | Up to 2 HDDs (SATA)   |         |
| Maximum Capacity                             | Up to 2x8TB   |         |
| Backup Media                                 | USB flash drive & HDD   |         |
| Backup File Format                           | DAV or ASF file   |         |
| <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         | Android™, iPad®, iPhone®  |         |
| 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 Bit Rate                             | 320Mbps total, 48~8192kbps per camera   |         |
| Network Interface                            | 10/100/1000-Base-TX, RJ-45  |         |
| <b>NVR General Information</b>               |   |         |
| Power Consumption                            | Approx. 15W (No HDD Installed)  |         |
| Supply Voltage                               | 100VAC-240VAC, 50/60Hz  |         |
| Total PoE Power Output (across all channels) | 130W (Max 25W per camera)   |         |
| Unit Weight                                  | 13.2lbs / 2.7kg   |         |
| Dimensions (W x H x D)                       | 14.7 x 12.9 x 2.1" / 3765 x 327 x 53mm  |         |
| Operating Temperature                        | 14° ~ 131° F / -10° ~ 55° C   |         |
| Humidity                                     | 10 ~ 90% RH   |         |



# Specifications

|                                   |  |   |
|-----------------------------------|--|---|
| <b>Camera</b>                     |  | P143E4  |
| Image Sensor                      |  | 4MP, 1/3"   |
| Effective Pixels                  |  | 2688(H) x 1520(V)   |
| Imager Type                       |  | CMOS  |
| Image Readout                     |  | Progressive Scan  |
| Day/Night                         |  | Auto (ICR) / Color / B/W  |
| Day/Night Delay Adjustment        |  | Yes   |
| Mechanical IR Filter              |  | Yes   |
| Min. Illumination                 |  | 0.38 lux @ F2.0 (Color), F2.0 lux @ F1.8 (B/W)  |
| S/N Ratio                         |  | 46dB (AGC OFF)  |
| Horizontal Field of View          |  | 90°   |
| IR Illumination                   |  | 82ft / 25m, 850nm   |
| IR ON/OFF Control                 |  | Yes   |
| Video Output                      |  | RJ45  |
| Electronic Shutter Range          |  | 1/3 (1/4) ~ 1/100,000 seconds   |
| <b>Optical</b>                    |  |   |
| Lens Type                         |  | Fixed   |
| Lens Mount                        |  | Board Type  |
| Iris Type                         |  | AES   |
| Focal Length                      |  | 2.8mm   |
| F-Number                          |  | F2.0  |
| Focus                             |  | Fixed   |
| <b>Video</b>                      |  |   |
| Video Compression                 |  | H.265 / H.264 / MJPEG   |
| Video Streams                     |  | H.265 / H.264 / MJPEG Triple Stream   |
| Resolution Selection (Mainstream) |  | 4MP(2688 x 1520) / 3.7MP(2560x1440) / 3MP(2304x1296) / 1080P(1920x1080) / SXGA (1280x1024) / 1.3MP(1280x960) / 720P(1280x720) |
| Aspect Ratio                      |  | 16 : 9 (excl. 1.3MP @ 4:3)  |
| Frame Rates (MAX)                 |  | 4MP @ up to 20fps / 3MP/1080p/720p @ 25/30fps   |
| Bit Rate Control                  |  | CBR / VBR (with cap)  |
| Bit Rate Selection (Mainstream)   |  | H.264 ~ 2,304Kbps ~ 10,240Kbps<br>H.265 ~ 768Kbps ~ 7,680Kbps / Custom  |
| Quality Setting Range (default)   |  | 1-6 (6)   |
| Region of Interest                |  | Yes (4)   |
| Wide Dynamic Range                |  | True WDR, User selectable   |
| Dynamic Range                     |  | Up to 100dB   |
| Backlight Compensation            |  | BLC / HLC   |
| White Balance                     |  | Auto / Manual   |
| Gain Control                      |  | Auto / Manual   |
| Noise Reduction                   |  | 3D-DNR  |
| Smart IR                          |  | Yes, User Adjustable  |
| Image Stabilization               |  | No  |
| Digital Zoom                      |  | Up to 10x   |
| Tamper Protection                 |  | Yes   |
| Adaptive Lens Correction (ALC)    |  | No  |
| Video Mirroring / Rotation        |  | Horizontal Mirror / 90° / 180° / 270° / Hallway Mode  |
| Video Overlay                     |  | Time / Date / Channel / Title / Custom  |
| Window Blanking (Privacy)         |  | Up to 4 Areas   |
| Menu Languages                    |  | English   |
| <b>Network</b>                    |  |   |
| Protocols                         |  | IPv4/IPv6, HTTP, TCP/IP, ARP, UDP, UPnP, RTSP, RTP, SMTP, NTP, DHCP, DNS, DDNS, FTP, QoS                                      |
| ONVIF Conformance                 |  | Profile S   |
| RTSP Video                        |  | Standard RFC2326, Support QuickTime/VLC Player. User Security Authentication (Enabled/Disabled)                               |
| Unicast Users                     |  | Up to 20  |
| Multicast Users                   |  | Up to 20  |
| <b>Mechanical</b>                 |  |   |
| Construction                      |  | Aluminum Alloy  |
| Product Dimensions (Dia x H)      |  | 3.8" D x 2.9" H<br>95mm D x 73mm H  |
| Product Weight                    |  | 0.65lbs / 0.30kg  |
| <b>Electrical</b>                 |  |   |
| Network Port                      |  | RJ45, 10/100 Base-T   |
| Power Input                       |  | 12V DC  |
| Power over Ethernet (PoE) Type    |  | PoE (802.3af)   |
| Power Consumption (max.)          |  | 2.8W  |
| Current Consumption (max.)        |  | 230mA   |
| <b>Additional Features</b>        |  |   |
| Edge Storage                      |  | N/A   |
| Built-in Heater                   |  | N/A   |
| Audio I/O                         |  | N/A   |
| Encoding                          |  | N/A   |
| Alarm I/O                         |  | N/A   |
| <b>Environmental</b>              |  |   |
| Storage Temperature               |  | -40° ~ 140°F / -40° ~ 60°C  |
| Storage Humidity                  |  | <95% RH   |
| Operating Temperature             |  | -22° ~ 140°F / -30° ~ 60°C  |
| Operating Humidity                |  | <95% RH   |
| Cold Start Temperature            |  | -22°F / -30°C   |
| Ingress Protection                |  | IP66  |
| <b>Certifications</b>             |  |   |
| Certifications                    |  | CE / FCC  |

## 4MP IP EYEBALL DOME CAMERA



### Ordering Information

DN7164E12: 8-41430-01886-5

### Package Dimensions

18.11 x 16.3 x 17.25"  
460 x 414 x 438mm

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