

# 5MP 16CH LumiDeterrent IP Kit With 12 Cameras

K5T-16D2A4



## Key Features

- 4K NVR With 4 TB HDD
- 16 Channels With Two (2) SATA Ports
- HDMI and VGA Output
- PoE Plug-and-Play
- 5MP Turret Housing
- 2.8 mm Fixed Lens
- LumiDeterrent With Flashing White-Lights and Built-In Speaker
- iMD

## Certifications and Compliance

- NDAA Compliant
- FCC
- ONVIF

## Learn More



Learn more about the camera's key technologies.



Learn more about the NVR's key technologies.

## Overview

The **K5T-16D2A4** is a complete security solution combining one (1) Luminys R3 Starter series NVR with twelve (12) 5MP turret network cameras. This compact, cost-effective kit delivers high-performance surveillance and is fully integrated within the Luminys ecosystem for seamless compatibility and reliable operation.

## Key Technologies

R3 series NVRs are compatible with the **LumiViewer desktop platform and mobile app**. LumiViewer streamlines security management by providing real-time surveillance, playback of historical footage, and instant alarm notifications. With features like device sharing, an alarm hub for safety alerts, visual intercom for video calls and door control, and remote access management, LumiViewer ensures comprehensive and efficient monitoring.

**LumiDeterrent** technology integrates full-color video, active deterrence, and AI algorithms to provide 24/7 security. This technology can accurately identify potential risks and prevent incidents with white-light alarms and enhanced sound alarms.

**Intelligent Motion Detection (iMD)** technology accurately detects and filters humans and vehicle in a monitoring area. Using an advanced algorithm, iMD can accurately detect humans and vehicles while reducing false alarms caused by other objects, animals, or lighting. Users can be alerted to iMD events for timely security. iMD events can be saved for future reference and easily searched for at a later time for forensic analysis and to assist in investigations.

# NVR Specifications - R32-16PB

## R3 Starter Series NVR, 4K 16 Channel, 16 PoE

### Video

|                                |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Video Input                    | 16 Channels                                                                       |
| Recording Resolutions          | 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF                          |
| Output Resolutions             | HDMI: 4K (3840 × 2160), 1920 × 1080, 1280 × 1024<br>VGA: 1920 × 1080, 1280 × 1024 |
| Live View/Playback Resolutions | 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 720p, D1, VGA, CIF                          |

### Decoding

|                      |                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format               | H.265, H.264, H.264H, H.264B, MJPEG                                                                                                                                                                                                                                                                                                                              |
| Capability           | <b>AI On</b> <ul style="list-style-type: none"><li>• 1CH at 12MP (30 fps)</li><li>• 1CH at 8MP (30 fps)</li><li>• 3CH at 4MP (30 fps)</li><li>• 7CH at 1080p (30 fps)</li></ul> <b>AI Off</b> <ul style="list-style-type: none"><li>• 1CH at 12MP (30 fps)</li><li>• 2CH at 8MP (30 fps)</li><li>• 4CH at 4MP (30 fps)</li><li>• 8CH at 1080p (30 fps)</li></ul> |
| Synchronous Playback | 1, 4, 8, 9, 16 Views                                                                                                                                                                                                                                                                                                                                             |

### Supported Analytics by NVR

|                              |                                                |
|------------------------------|------------------------------------------------|
| Intelligent Motion Detection | 4 Channels                                     |
| Smart Search                 | Search by Target Classification and Event Type |

### Interface

|         |                                                                       |
|---------|-----------------------------------------------------------------------|
| SATA    | Two (2) Ports                                                         |
| HDD     | 4 TB Pre-Installed HDD (Up to Max. 20 TB per HDD)                     |
| Network | One (1) Port (RJ-45 Self-Adaptive Ethernet (10/100/1000 Mbps))        |
| PoE     | 16 Ports (RJ-45 Self-Adaptive Ethernet (10/100 Mbps))                 |
| USB     | Front Panel: One (1) USB 2.0 Port<br>Rear Panel: One (1) USB 2.0 Port |
| Alarm   | Input: Four (4) Channels<br>Output: Two (2) Channels                  |
| Audio   | Input: One (1) RCA Channel<br>Output: One (1) RCA Channel             |

### Network

|           |                                                                                                                                                                                                                                                 |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bandwidth | <b>AI On</b> <ul style="list-style-type: none"><li>• Incoming/Recording: 80 Mbps</li><li>• Outgoing: 60 Mbps</li></ul> <b>AI Off</b> <ul style="list-style-type: none"><li>• Incoming/Recording: 160 Mbps</li><li>• Outgoing: 80 Mbps</li></ul> |
| Protocol  | HTTP, HTTPS, TCP/IP, IPv4, IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS                                                                                                                                                              |

### Network

|                  |                                   |
|------------------|-----------------------------------|
| Interoperability | ONVIF, RTSP                       |
| PoE Standard     | IEEE 802.3 af/at                  |
| Client           | LumiViewer, LumiViewer Mobile App |

### Electrical

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| Power Supply      | 100-240 V, 47-63 Hz. 3.5 A                                               |
| Power Consumption | < 10 W (Without HDD)<br>PoE: 130 W (Max. Output for Single Port: 25.5 W) |

### Construction

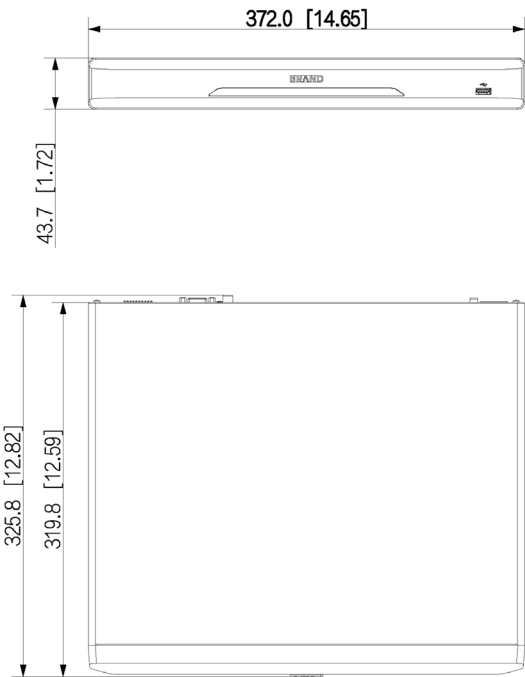
|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Housing                        | 1U                                                               |
| Weight                         | 3.8 kg (8.4 lb) Without HDD                                      |
| Operating Temperature          | -10 °C to 55 °C (10 °F to 131 °F)<br>10% to 93%                  |
| Product Dimensions (W x L x H) | 372.0 mm × 325.8 mm × 43.7 mm<br>(14.7 in. × 12.8 in. × 1.7 in.) |

### Certifications and Compliance

|                |     |
|----------------|-----|
| Certifications | FCC |
| Compliance     | NDA |

### Dimensional Drawing

mm [in.]



# Camera Specifications - N3T-5DA2

## 5MP LumiDeterrent Fixed Turret Network Camera (2.8 mm)

| Camera                        |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| Luminys Series                | Starter                                                                                             |
| Image Sensor                  | 1/2.7-in. 5MP Progressive CMOS                                                                      |
| Maximum Resolution            | 2960 × 1668                                                                                         |
| Minimum Illumination          | <b>Color:</b> 0.007 Lux at F1.6<br><b>Black/White:</b> 0.0007 Lux at F1.6<br>0 Lux With IR Light On |
| Number of Illuminators        | One (1) White-Light LED, One (1) IR LED                                                             |
| Illuminator Control           | Automatic, Manual                                                                                   |
| Maximum Illumination Distance | <b>IR:</b> Up to 30.5 m (100.0 ft)<br><b>White Light:</b> Up to 30.5 m (100.0 ft)                   |
| Electronic Shutter Speed      | Automatic, Manual<br>1/3 s to 1/100,000 s                                                           |
| Installation Angle            | <b>Pan/Rotation:</b> 0° to 360°<br><b>Tilt:</b> 0° to 78°                                           |
| S/N Ratio                     | > 56 dB                                                                                             |

| Lens               |                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Iris Type          | Fixed                                                                                                                                          |
| Lens Type          | Fixed                                                                                                                                          |
| Focal Length       | 2.8 mm                                                                                                                                         |
| Maximum Aperature  | F1.6                                                                                                                                           |
| Field of View      | <b>Horizontal:</b> 111°<br><b>Vertical:</b> 58°<br><b>Diagonal:</b> 132°                                                                       |
| Close Focus Range` | 1.1 m (3.6 ft)                                                                                                                                 |
| DORI Distance      | <b>Detect:</b> 63.4 m (208.0 ft)<br><b>Observe:</b> 25.1 m (82.4 ft)<br><b>Recognize:</b> 12.4 m (40.7 ft)<br><b>Identify:</b> 6.2 m (20.3 ft) |

| Video              |                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Compression        | Smart Encoding H.265+, H.265, Smart Encoding H.264+, H.264, MJPEG (Sub Stream Only)                                                                                                      |
| Standard Codec     | Supported                                                                                                                                                                                |
| Stream Capability  | Two (2)                                                                                                                                                                                  |
| Resolution         | 5MP (2960 × 1668), 4MP (2688 × 1520), 4MP (2560 × 1440), 3MP (2304 × 1296), 1080p (1920 × 1080), 1.3MP (1280 × 960), 720P (1280 × 720), D1 (704 × 480), VGA (640 × 480), CIF (352 × 240) |
| Maximum Frame Rate | <b>Main Stream:</b> 5MP at 20 fps<br><b>Sub Stream 1:</b> D1 at 30 fps                                                                                                                   |
| Video Bit Rate     | <b>H.264:</b> 3 kbps to 8,192 kbps<br><b>H.265:</b> 3 kbps to 8,192 kbps                                                                                                                 |
| Bit Rate Control   | CBR/VBR                                                                                                                                                                                  |
| Day/Night          | Automatic (ICR), Color, Black and White                                                                                                                                                  |

| Video              |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| Light Balancing    | Wide Dynamic Range (120 dB)                                               |
| Noise Reduction    | 3D NR                                                                     |
| Image Angle        | 0°/90°/180°/270° (90°/270° Available for 2688 × 1520 Resolution or Lower) |
| Image Mirroring    | Supported                                                                 |
| Region of Interest | Four (4) Zones                                                            |
| Privacy Masking    | Four (4) Zones                                                            |

| Analytics                    |                                               |
|------------------------------|-----------------------------------------------|
| Video Content Analytics      | Line Crossing, Intrusion                      |
| Intelligent Motion Detection | Supported with Alarms for Vehicles and Humans |

| Audio       |                                                                      |
|-------------|----------------------------------------------------------------------|
| Compression | G.711a, G.711Mu, PCM                                                 |
| Interface   | <b>Input:</b> Built-In Microphone<br><b>Output:</b> Built-In Speaker |

| Alarm |                                                                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Event | Line Crossing, Intrusion, Motion Detection, iMD, Audio Detection, Video Tampering, Disk Full, Disk Error, Voltage Detection, Security Exception |

| Network          |                                                                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protocol         | RJ-45 (10/100 Base-T)                                                                                                                                                  |
| Protocol         | IPv4, IPv6, DNS, TCP, UDP, DHCP, HTTP, HTTPS, 802.1X, RTSP, DDNS, P2P, SMTP, RTMP, UPnP, Auto Registration, ICMP, IGMP, FTP, SFTP, RTP, RTCP, ARP, NTP, Multicast, NFS |
| Interoperability | ONVIF (Profile S/G/T), API, SDK                                                                                                                                        |
| Browser          | Chrome, Firefox, Edge                                                                                                                                                  |
| Client           | LumiViewer, LumiViewer Mobile App                                                                                                                                      |
| Storage          | FTP, SFTP, MicroSD Card (Max. 256 GB)                                                                                                                                  |

| Electrical        |                                                                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Supply      | 12 VDC, PoE (802.3af)                                                                                                                                                                                                                  |
| Power Consumption | <b>12 VDC</b> <ul style="list-style-type: none"><li>• <b>Maximum:</b> 6.9 W</li><li>• <b>Normal:</b> 2.5 W</li></ul> <b>PoE</b> <ul style="list-style-type: none"><li>• <b>Maximum:</b> 8.2 W</li><li>• <b>Normal:</b> 3.2 W</li></ul> |

| Construction          |                                                           |
|-----------------------|-----------------------------------------------------------|
| Net Weight            | 0.5 kg (1.2 lb)                                           |
| Gross Weight          | 0.7 kg (1.6 lb)                                           |
| Operating Temperature | -40 to 60 °C (-40 to 140 °F)<br>< 95% RH (Non-Condensing) |

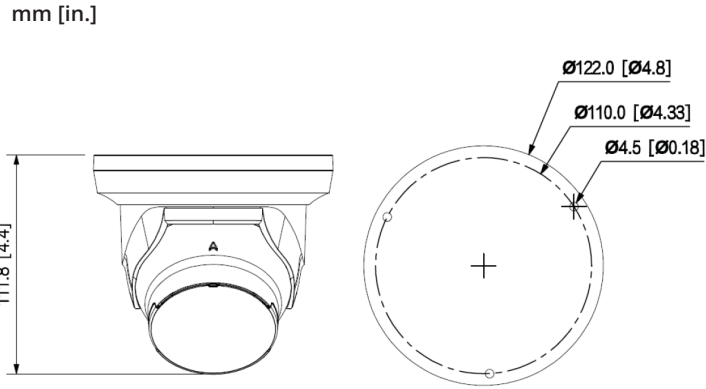
Construction

|                                     |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|
| Product Dimensions                  | 122.0 mm × 111.8 mm<br>(4.8 in. × 4.4 in.)                      |
| Packaging Dimensions<br>(L x W x H) | 148.0 mm x 139.0 mm x 137.0 mm<br>(5.8 in. x 5.5 in. x 5.4 in.) |
| Protection Ratings                  | IP67, IK10                                                      |
| Material                            | Metal                                                           |

Certifications and Compliance

|                |         |
|----------------|---------|
| Certifications | FCC, IC |
| Compliance     | NDAA    |

Dimensional Drawing



Compatible Accessories

Below are the compatible accessories for this product. Not all accessories are included with purchase; some must be purchased separately. For each mount type, all listed SKUs are required to ensure proper installation.

Cross-check the accessories in this datasheet with the Luminy's accessory selector tool, and verify that the mount size corresponds to the camera size. Failure to check may result in an incorrect or incomplete mount.

| Accessory Combination             | SKU(s)                                                       | Description                                                                                                                                                            |
|-----------------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Junction Box                      | LUM-J02 <b>OR</b> LUM-CJ11<br>(Must be Purchased Separately) | Junction Box for Select Standard Size Dome and Mini Turret Camera Models <b>OR</b> Waterproof Junction Box for Select Standard Size Dome and Mini Turret Camera Models |
| Wall Mount                        | LUM-W01<br>(Must be Purchased Separately)                    | Wall Mount Bracket for Select N5D Dome and N5T/N3T Turret Cameras                                                                                                      |
| Horizontal Pole Mount (Option 1)* | LUM-W01<br>(Must be Purchased Separately)                    | Wall Mount Bracket for Select N5D Dome and N5T/N3T Turret Cameras                                                                                                      |
|                                   | LUM-P02<br>(Must be Purchased Separately)                    | Pole Mount Bracket for Select N3 and N5 Series Cameras                                                                                                                 |
| Horizontal Pole Mount (Option 2)* | LUM-A01<br>(Must be Purchased Separately)                    | Adapter Plate for Select Dome and Turret Cameras                                                                                                                       |
|                                   | LUM-W02<br>(Must be Purchased Separately)                    | Wall Mount Bracket for Select N5D, N5T, N3T, P45, P54, and P55 Cameras                                                                                                 |
|                                   | LUM-P01<br>(Must be Purchased Separately)                    | Pole Mount Bracket for Select N3 and N5 Series Cameras                                                                                                                 |
| Vertical Pole Mount*              | LUM-A01<br>(Must be Purchased Separately)                    | Junction Box for Standard Size Turret Camera Models                                                                                                                    |
|                                   | LUM-E01<br>(Must be Purchased Separately)                    | Ceiling Mount Bracket for Standard Dome, Dome Wedge, and Mini Turret Cameras                                                                                           |
|                                   | LUM-P01<br>(Must be Purchased Separately)                    | Pole Mount Bracket for Select N3 and N5 Series Cameras                                                                                                                 |
| Pendant Mount*                    | LUM-A01<br>(Must be Purchased Separately)                    | Adapter Plate for Select Dome and Turret Cameras                                                                                                                       |
|                                   | LUM-E01<br>(Must be Purchased Separately)                    | Ceiling Mount Bracket for Standard Dome, Dome Wedge, and Mini Turret Cameras                                                                                           |
| Corner Mount*                     | LUM-A01<br>(Must be Purchased Separately)                    | Adapter Plate for Select Dome and Turret Cameras                                                                                                                       |
|                                   | LUM-W02<br>(Must be Purchased Separately)                    | Wall Mount Bracket for Select N5D, N5T, N3T, P45, P54, and P55 Cameras                                                                                                 |
|                                   | LUM-C01<br>(Must be Purchased Separately)                    | Corner Mount Bracket for N3/N5/N9/P4/P Series Cameras                                                                                                                  |

\*All SKUs listed must be used to complete the mounting combination. Verify the compatibility of the listed mounting components prior to ordering. Failure to use all SKUs listed and ensure compatibility may result in an incorrect or incomplete mount.