

# LTC Series Lensed Cameras

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Invented for life



- Pre-assembled units with camera and varifocal lens included
- Reduces installation time to the absolute minimum
- Choice of camera model (general purpose, high performance, or Day/Night; HD, IP or analog) and various varifocal lens options available
- HD and IP models offer quad-streaming of multiple H.264 streams, an I-frame only recording stream, and one simultaneous M-JPEG stream) and local storage for flexible recording.
- ONVIF conformant

The LTC Series Indoor Camera kits provide the most economical package available for indoor applications. These kits reduce the required installation time to the absolute minimum. Each kit includes a camera with a pre-assembled and an adjustable varifocal lens. The kits for “W” model cameras also include an optional wall mount bracket. Users only need to connect the power supply and video cables to obtain superior picture performance in virtually all indoor applications.

**EFFECTIVE 20 October 2013:** Some lenses are discontinued. Lens substitutions are as follows:

- LTC 3364/50 is replaced by LVF-4000C-D2812.
- LTC 3664/50 is replaced by LVF-5000C-D2811.

Please refer to the datasheets of the new lenses for more details.

## System overview

| Model No.   | Lens                    | Mount | Description |
|-------------|-------------------------|-------|-------------|
| LTC 0435/20 | Analog Color, Standard, |       |             |
|             | 24 VAC, 60 Hz, NTSC     |       |             |

|              |             |         |                             |
|--------------|-------------|---------|-----------------------------|
| LTC 0435-28  | LTC 3364/50 | N/A     | 2.8-10 m m lens             |
| LTC 0435-28W | LTC 3364/50 | TC9210U | 2.8-10 mm lens, white mount |

### LTC 0455/21 Analog Color, High Resolution (Night Sense), 24 VAC, 60 Hz, NTSC

|              |             |         |                              |
|--------------|-------------|---------|------------------------------|
| LTC 0455-28  | LTC 3364/50 | N/A     | 2.8-10 m m lens              |
| LTC 0455-28W | LTC 3364/50 | TC9210U | 2.8-10 m m lens, white mount |

### LTC 0485/21 Analog Color, XF (Night Sense), 24 VAC, 60 Hz, NTSC

|             |             |     |                 |
|-------------|-------------|-----|-----------------|
| LTC 0485-28 | LTC 3364/50 | N/A | 2.8-10 m m lens |
|-------------|-------------|-----|-----------------|

|              |             |          |                              |
|--------------|-------------|----------|------------------------------|
| LTC 0485-28W | LTC 3364/50 | TC9210US | 2.8-10 mm lens, silver mount |
|--------------|-------------|----------|------------------------------|

**LTC 0498/21**  
**Analog Day/Night, 2X,**  
**24 VAC, 60 Hz, NTSC**

|              |             |          |                              |
|--------------|-------------|----------|------------------------------|
| LTC 0498-28  | LTC 3664/40 | N/A      | 2.8-11 mm lens               |
| LTC 0498-28W | LTC 3664/40 | TC9210US | 2.8-11 mm lens, silver mount |
| LTC 0498-75  | LTC 3674/20 | N/A      | 7.5-50 mm lens               |
| LTC 0498-75W | LTC 3674/20 | TC9210US | 7.5-50 mm lens, silver mount |

**NBC-455-21P / NBC-455-22P**  
**IP Color,**  
**12VDC/24 VAC, 60 Hz, NTSC, MicroSD slot (card not included), H.264**

|              |             |          |                                   |
|--------------|-------------|----------|-----------------------------------|
| NBC-455-28   | LTC 3364/50 | N/A      | 2.8-10 mm lens, PoE               |
| NBC-455-28V  | LTC 3364/50 | N/A      | 2.8-10 mm lens, IVA               |
| NBC-455-28W  | LTC 3364/50 | TC9210US | 2.8-10 mm lens, silver mount      |
| NBC-455-28WV | LTC 3364/50 | TC9210US | 2.8-10 mm lens, IVA, silver mount |
| NBC-455-55   | LTC 3374/50 | N/A      | 5-50 mm lens, PoE                 |
| NBC-455-55V  | LTC 3374/50 | N/A      | 5-50 mm lens, IVA                 |
| NBC-455-55W  | LTC 3374/50 | TC9210US | 5-50 mm lens, silver mount        |
| NBC-455-55WV | LTC 3374/50 | TC9210US | 5-50 mm lens, IVA, silver mount   |

**NBN-498-21P / NBN-498-22P**  
**IP Day/Night,**  
**12VDC/24 VAC, 60 Hz, NTSC, MicroSD slot (card not included), H.264**

|              |             |          |                                   |
|--------------|-------------|----------|-----------------------------------|
| NBN-498-28   | LTC 3664/40 | N/A      | 2.8-11 mm lens, PoE               |
| NBN-498-28V  | LTC 3664/40 | N/A      | 2.8-11 mm lens, IVA               |
| NBN-498-28W  | LTC 3664/40 | TC9210US | 2.8-11 mm lens, silver mount      |
| NBN-498-28WV | LTC 3664/40 | TC9210US | 2.8-11 mm lens, IVA, silver mount |
| NBN-498-75   | LTC 3674/20 | N/A      | 7.5-50 mm lens, PoE               |
| NBN-498-75V  | LTC 3674/20 | N/A      | 7.5-50 mm lens, IVA               |
| NBN-498-75W  | LTC 3674/20 | TC9210US | 7.5-50 mm lens, silver mount      |
| NBN-498-75WV | LTC 3674/20 | TC9210US | 7.5-50 mm lens, IVA, silver mount |

**NBN-832V-P / NBN-832V-IP**  
**HD Day/Night,**  
**12VDC/24 VAC, 60 Hz, NTSC, MicroSD slot (card not included), H.264**

|              |                |          |                                         |
|--------------|----------------|----------|-----------------------------------------|
| NBN-832-18W  | VLG-2V1803-MP5 | TC9210US | Outdoor, 1.8 - 3 mm lens, 1080p HD      |
| NBN-832-18WV | VLG-2V1803-MP5 | TC9210US | Outdoor, 1.8 - 3 mm lens, 1080p HD, IVA |
| NBN-832-38W  | VLG-3V3813-MP3 | TC9210US | Outdoor, 3.8-13 mm lens, 1080p HD       |
| NBN-832-38WV | VLG-3V3813-MP3 | TC9210US | Outdoor, 3.8-13 mm lens, 1080p HD, IVA  |

|              |                |          |                                      |
|--------------|----------------|----------|--------------------------------------|
| NBN-832-94W  | VLG-4V0940-MP5 | TC9210US | Outdoor, 9-40 mm lens, 1080p HD      |
| NBN-832-94WV | VLG-4V0940-MP5 | TC9210US | Outdoor, 9-40 mm lens, 1080p HD, IVA |

N/A = not available

IVA = enabled activation via a separate license

## Functions

### Superior image quality

The kits are based on the Dinion Series of analog, IP and HD cameras, which cover high resolution and high definition as well as color and day/night versions.

### 1080p HD Camera

The DinionHD camera is designed to stream a high resolution 1080p video image in true HD format (16:9). The camera now brings the unmatched Dinion Image performance to HD-standard video. With a 1/2.7-inch CMOS HD sensor, the DinionHD Day/ Night IP camera delivers outstanding image quality. The Bosch designed digital video processing system optimally handles the HD image format without compromise.

### Network-based control and configuration

Dinion IP and HD network cameras are designed to ensure the highest possible image quality at all times, providing DVD-like, high-quality MPEG-4 video, at up to 25 images per second. Certain models are true hybrid cameras; they have an Ethernet connection for network video and a BNC connection for analog video. IP and HD models are ONVIF conformant devices that are able to exchange live video, audio, metadata, and control information. They have dual H.264 encoding streams that create DVD-quality streaming video at ultra-low bit rates, as well as a simultaneous M-JPEG stream, that minimize bandwidth and storage usage. They also feature the Motion+ video motion analysis system that is based on pixel change and includes object size filtering capabilities and sophisticated tamper-detection capabilities. The Intelligent Video Analysis (IVA) option, activated by a separate license, uses multilevel image analysis of pixels, texture, and object direction. The IP and HD cameras also support local recording on a microSD card. This can be used for local alarm recording or for Automatic Network Replenishment (ANR) to improve the overall reliability of video recording.

### Ease of installation and servicing

Each analog camera is equipped with Bosch's Bilinx bi-directional communication for remote programming. Bilinx uses standard video cable to transmit alarm and status messages, providing superior performance and simplified installation.

The camera kits can be used in a wide variety of places such as retail stores, health care facilities, financial institutions, educational environments, and industrial areas.

## Certifications and approvals

### Electromagnetic Compatibility

#### Emission

|                                                                                                          |                                                              |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| NBC-455 Series                                                                                           | EN55022 Class B<br>EN61000-3-2<br>EN61000-3-3<br>FCC Part 15 |
| NBN-498 Series                                                                                           | EN55022 Class B<br>EN61000-3-2<br>EN61000-3-3<br>FCC Part 15 |
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series,<br>LTC 0498 Series<br>NBN-832V-P<br>NBN-832V-IP | EN55022 Class B<br>FCC Part 15 Class B                       |

#### Immunity

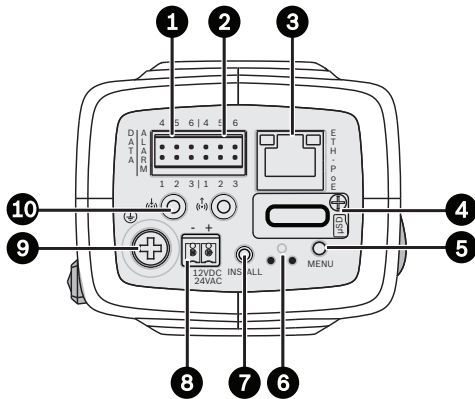
|                                                                             |                                                            |
|-----------------------------------------------------------------------------|------------------------------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series,<br>LTC 0498 Series | EN50130-4                                                  |
| NBC-455 Series                                                              | EN50130-4 (PoE, +12 VDC)<br>EN55024 (24 VAC)<br>EN50121-4  |
| NBN-498 Series                                                              | EN50130-4 (PoE, +12 VDC)<br>EN55024 (24 VAC)<br>EN50121-4B |
| NBN-832V-P<br>NBN-832V-IP                                                   | EN50130-4 (CE),<br>EN50121-4 (CE)                          |

#### Safety

|                                                                             |                                                                    |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series,<br>LTC 0498 Series | EN60065                                                            |
| NBC-455 Series<br>NBN-832V-P<br>NBN-832V-IP                                 | EN60950-1<br>UL60950-1 (2nd edition)<br>CAN/CSA-C 22.2 No. 60950-1 |
| NBN-498 Series                                                              | EN60950-1<br>UL60950-1 (2nd edition)<br>CAN/CSA-C 22.2 No. 60950-1 |
| Vibration                                                                   | Camera with 500 g (1.1 lbs) lens as per IEC60068-2-6               |

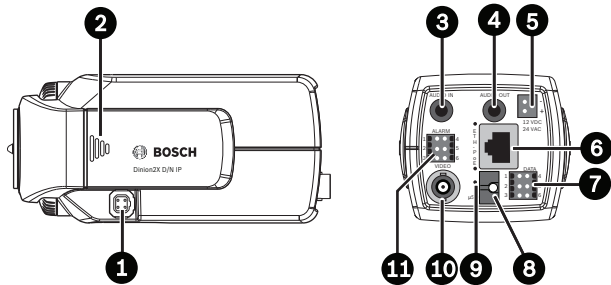
| Region | Certification                 |
|--------|-------------------------------|
| USA    | UL                            |
|        | FCC Declaration of Conformity |

## Installation/configuration notes



HD Camera Controls with MicroSD Card Slot

|   |                             |    |                      |
|---|-----------------------------|----|----------------------|
| 1 | Data (RS485/422/232)        | 6  | Reset button         |
| 2 | Alarm in, relay out         | 7  | Service video out    |
| 3 | 10/100 Base-T Fast Ethernet | 8  | Power supply input   |
| 4 | MicroSD card slot           | 9  | Earth                |
| 5 | Menu button                 | 10 | Audio in / Audio out |



IP Camera Controls with MicroSD Card Slot

|   |                             |    |                                       |
|---|-----------------------------|----|---------------------------------------|
| 1 | Lens connector              | 7  | Data (RS485/422/232)                  |
| 2 | Control buttons             | 8  | MicroSD card slot (card not included) |
| 3 | Audio in                    | 9  | Reset button                          |
| 4 | Audio out                   | 10 | BNC video output (service mode)       |
| 5 | Power supply input          | 11 | Alarm in, relay out                   |
| 6 | 10/100 Base-T Fast Ethernet |    |                                       |

## Technical specifications

For a detailed list of camera technical specifications, refer to the appropriate datasheet for additional information.

## Electrical

| Model                                                   | Voltage                                     |
|---------------------------------------------------------|---------------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series | 11-39 VDC, 12-28 VAC                        |
| LTC 0498 Series                                         | 12 VDC $\pm$ 10%, 24 VAC $\pm$ 10%          |
| NBC-455 Series,<br>NBN-498 Series,<br>NBN-832 Series    | 12 VDC $\pm$ 10%, 24 VAC $\pm$ 10%, and PoE |

## Power Consumption

|                                                         |                                                                                           |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series | 4 W, excluding lens                                                                       |
| LTC 0498 Series                                         | 4.2 W (12 VDC), 6 W (24 VAC)                                                              |
| NBC-455 Series                                          | 5.4 W   6.6 W IVA (12 VDC)<br>6.7 W   8.2 W IVA (24 VAC)<br>9.6 W (PoE 48 VDC)            |
| NBN-498 Series                                          | 6.6 W   7.8 W IVA (12 VDC)<br>8.2 W   9.7 W IVA (24 VAC)<br>9.6 W (PoE 48 VDC)            |
| NBN-832 Series                                          | 4.8 W   6 W IVA (12 VDC)<br>8.4 W   10.8 W IVA (24 VAC)<br>7.2 W   8.4 W IVA (PoE 48 VDC) |

## Imager

|                                                                            |                                 |
|----------------------------------------------------------------------------|---------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series,<br>NBC-455 Series | 1/3-inch CCD                    |
| NBN-498 Series                                                             | 1/3-inch CCD, WDR, dual shutter |
| NBN-832 Series                                                             | 1/2.7-inch CMOS                 |

## Sensitivity

(3200 K, scene reflectivity 89%, F1.2)

|  | Minimum Illumination (30 IRE) | Scene Illumination (50 IRE) | Scene Illumination (Full Video) |
|--|-------------------------------|-----------------------------|---------------------------------|
|--|-------------------------------|-----------------------------|---------------------------------|

## Analog Color, Standard

|             |  |                    |                    |
|-------------|--|--------------------|--------------------|
| LTC 0435-28 |  | 0.54 lux (0.05 fc) | 2.15 lux (0.20 fc) |
|-------------|--|--------------------|--------------------|

## Analog Color, High Resolution (Night Sense)

## LTC 0455-28

|               |  |                    |                    |
|---------------|--|--------------------|--------------------|
| Standard Mode |  | 0.89 lux (0.08 fc) | 3.59 lux (0.33 fc) |
| NightSense    |  | 0.36 lux (0.03 fc) | 1.43 lux (0.13 fc) |

## Analog Color, XF (Night Sense)

## LTC 0485-28

|                     |  |                         |                         |
|---------------------|--|-------------------------|-------------------------|
| Color               |  | 0.80 lux<br>(0.07 fc)   | 3.26 lux<br>(0.30 fc)   |
| NightSense          |  | 0.32 lux<br>(0.03 fc)   | n/a                     |
| SensUp              |  | n/a                     | 0.036 lux<br>(0.003 fc) |
| NightSense + SensUp |  | 0.018 lux<br>(0.002 fc) | n/a                     |

**Analog Day/Night, 2X****LTC 0498-28**

|                         |                            |                          |                         |
|-------------------------|----------------------------|--------------------------|-------------------------|
| Color                   | 0.20 lux<br>(0.0204 fc)    | 0.63 lux<br>(0.063 fc)   | 3.26 lux<br>(0.326 fc)  |
| Color + SensUp 10x      | 0.02 lux<br>(0.00204 fc)   | 0.06 lux<br>(0.00639 fc) | 0.32 lux<br>(0.0326 fc) |
| Monochrome              | 0.081 lux<br>(0.0081 fc)   | 2.55 lux<br>(0.255 fc)   | 1.33 lux<br>(0.133 fc)  |
| Monochrome + SensUp 10x | 0.0081 lux<br>(0.00081 fc) | 0.025 lux<br>(0.0025 fc) | 0.133 lux<br>(0.013 fc) |

**LTC 0498-75**

|                         |                            |                            |                           |
|-------------------------|----------------------------|----------------------------|---------------------------|
| Color                   | 0.17 lux<br>(0.0176 fc)    | 0.55 lux<br>(0.055 fc)     | 2.81 lux<br>(0.281 fc)    |
| Color + SensUp 10x      | 0.018 lux<br>(0.00176 fc)  | 0.055 lux<br>(0.0055 fc)   | 0.281 lux<br>(0.0281 fc)  |
| Monochrome              | 0.0704 lux<br>(0.00704 fc) | 0.221 lux<br>(0.02206 fc)  | 1.150 lux<br>(0.11501 fc) |
| Monochrome + SensUp 10x | 0.007 lux<br>(0.0007 fc)   | 0.022 lux<br>(0.002229 fc) | 0.115 lux<br>(0.0115 fc)  |

**IP****NBC-455-28 Series (Color)**

|            |                        |                        |                        |
|------------|------------------------|------------------------|------------------------|
| Color      | 0.40 lux<br>(0.04 fc)  | 0.88 lux<br>(0.088 fc) | 3.5 lux<br>(0.35 fc)   |
| NightSense | 0.16 lux<br>(0.016 fc) | 0.35 lux<br>(0.035 fc) | 1.41 lux<br>(0.141 fc) |

**NBC-455-55 Series (Color)**

|            |                        |                        |                        |
|------------|------------------------|------------------------|------------------------|
| Color      | 0.60 lux<br>(0.06 fc)  | 1.30 lux<br>(0.130 fc) | 5.21 lux<br>(0.521 fc) |
| NightSense | 0.24 lux<br>(0.024 fc) | 0.52 lux<br>(0.052 fc) | 2.08 lux<br>(0.208 fc) |

**NBN-498-28 Series (Day/Night)**

|                    |                          |                          |                        |
|--------------------|--------------------------|--------------------------|------------------------|
| Color              | 0.020 lux<br>(0.020 fc)  | 0.63 lux<br>(0.063 fc)   | 3.26 lux<br>(0.326 fc) |
| Color + SensUp 10x | 0.020 lux<br>(0.0020 fc) | 0.063 lux<br>(0.0063 fc) | 0.32 lux<br>(0.032 fc) |
| Monochrome         | 0.081 lux                | 0.255 lux                | 1.33 lux               |

|                         |                            |                           |                          |
|-------------------------|----------------------------|---------------------------|--------------------------|
|                         | (0.0081 fc)                | (0.025 fc)                | (0.133 fc)               |
| Monochrome + SensUp 10x | 0.0081 lux<br>(0.00081 fc) | 0.0255 lux<br>(0.0025 fc) | 0.133 lux<br>(0.0133 fc) |

**NBN-498-75 Series (Day/Night)**

|                         |                           |                            |                           |
|-------------------------|---------------------------|----------------------------|---------------------------|
| Color                   | 0.15 lux<br>(0.015 fc)    | 0.55 lux<br>(0.055 fc)     | 2.81 lux<br>(0.281 fc)    |
| Color + SensUp 10x      | 0.01 lux<br>(0.001 fc)    | 0.05 lux<br>(0.005 fc)     | 0.28 lux<br>(0.028 fc)    |
| Monochrome              | 0.07 lux<br>(0.007 fc)    | 0.22 lux<br>(0.022 fc)     | 1.15 lux<br>(0.115 fc)    |
| Monochrome + SensUp 10x | 0.0070 lux<br>(0.0007 fc) | 0.0229 lux<br>(0.00229 fc) | 0.1150 lux<br>(0.0115 fc) |

**NBN-832 Series (Day/Night)**

|                         |                        |  |  |
|-------------------------|------------------------|--|--|
| Monochrome              | 0.22 lux<br>(0.022 fc) |  |  |
| Monochrome + SensUP 10x | 0.05 lux<br>(0.005 fc) |  |  |

**Horizontal Resolution**

|                                                                                               |         |
|-----------------------------------------------------------------------------------------------|---------|
| LTC 0435 Series                                                                               | 330 TVL |
| LTC 0455 Series,<br>LTC 0485 Series,<br>LTC 0498 Series,<br>NBC-455 Series,<br>NBN-498 Series | 540 TVL |

**Output (IP Models)**

|                 |                                              |
|-----------------|----------------------------------------------|
| Video Standards | MPEG-4; M-JPEG, H.264 (ISO/IEC 14496-10)     |
| GOP Structure   | IP models: I, IP<br>HD models: IP, IBP, IBBP |
| Data Rate       | 9.6 Kbps to 6 Mbps (const. and variable)     |
| Local Storage   | MicroSD card slot (card not included)        |

**Control (Analog Models)**

Bilinx bi-directional coaxial communication  
OSD with softkey operation

**Control (IP and HD Models)**

Web browser or Configuration Manger

**Lenses,  
Analog and Standard IP Cameras**

|  | Focal Length | Iris Control Range | Iris Control |
|--|--------------|--------------------|--------------|
|--|--------------|--------------------|--------------|

**Non-IR Corrected**

|             |           |            |         |
|-------------|-----------|------------|---------|
| LTC 3364/50 | 2.8–10 mm | F1.4 – 360 | DC-iris |
| LTC 3374/50 | 5–50 mm   | F1.7 – 360 | DC-iris |

**IR-Corrected**

|             |           |            |         |
|-------------|-----------|------------|---------|
| LTC 3664/40 | 2.8–11 mm | F1.4 – 360 | DC-iris |
| LTC 3674/20 | 7.5–50 mm | F1.3 – 360 | DC-iris |

#### Lenses, IR Corrected HD Cameras

|                | Focal Length | Iris Control Range | Iris Control |
|----------------|--------------|--------------------|--------------|
| VLG-2V1803-MP5 | 1.8 – 3 mm   | F1.8 to close      | DC-iris      |
| VLG-3V3813-MP3 | 3.8 – 13 mm  | F1.4 to close      | DC-iris      |
| VLG-4V0940-MP5 | 9 – 40 mm    | F1.5 to close      | DC-iris      |

#### Mechanical

| Connectors |                                                        |
|------------|--------------------------------------------------------|
| Power      | Plug                                                   |
| Video      | Standard IP: BNC connector or Ethernet<br>HD: Ethernet |

#### Camera Dimensions (H x W x L)

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series | 58 mm x 67 mm x 122 mm<br>(2.28 in. X 2.64 in. X 4.80 in.)                   |
| LTC 0498 Series,<br>NBC-455 Series,<br>NBN-498 Series   | 58 mm x 66 mm x 122 mm<br>(2.28 in. X 2.64 in. X 4.80 in.)<br>(without lens) |
| NBN-832 Series                                          | 78 mm x 66 mm x 140 mm<br>(3.07 in. x 2.6 in. x 5.52 in.)<br>(without lens)  |

#### Weight

|                                                                             |                               |
|-----------------------------------------------------------------------------|-------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series,<br>LTC 0498 Series | 450 g (0.99 lb) without lens  |
| NBC-455 Series                                                              | 524 g (1.155 lb) without lens |
| NBN-498 Series                                                              | 542 g (1.195 lb) without lens |
| NBN-832 Series                                                              | 690 g (1.52 lb) without lens  |
| Mounting Bracket                                                            | TC9210U or TC9210US           |

#### Environmental

##### Temperature Range

##### Operating Temperature

|                                                                                     |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
| LTC 0435 Series<br>LTC 0455 Series<br>LTC 0485 Series<br>NBN-832 Series with<br>IVA | -20 °C to +50 °C (-4 °F to +122 °F) |
| LTC 0498 Series                                                                     | -20 °C to 55 °C (-4 °F to 131 °F)   |

|                                     |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| NBN-832 Series non<br>IVA           |                                                                                                                                         |
| NBC-455 Series*,<br>NBN-498 Series* | -20 °C to +50 °C (-4 °F to +122 °F) (non-IVA)<br>-20 °C to +45 °C (-4 °F to +113 °F) (IVA)<br>*For extended temp. range, use HAC-IPCCC. |

##### Storage Temperature

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series | -25 °C to +70 °C (-13 °F to +158 °F) |
| LTC 0498 Series                                         | -40 °C to 70 °C (-40 °F to 158 °F)   |
| NBC-455 Series,<br>NBN-498 Series                       | -40 °C to +70 °C (-40 °F to +158 °F) |
| NBN-832 Series                                          | -30 °C to +70 °C (-22 °F to +158 °F) |

##### Operating Humidity

|                                                                         |                                    |
|-------------------------------------------------------------------------|------------------------------------|
| LTC 0435 Series,<br>LTC 0455 Series,<br>LTC 0485 Series                 | 5 - 93% relative (non-condensing)  |
| LTC 0498 Series,<br>NBC-455 Series,<br>NBN-498 Series<br>NBN-832 Series | 20 - 93% relative (non-condensing) |

#### Ordering information

##### LTC 0435-28

Camera, color, 2.8-10 mm lens, 24 V 60 Hz  
Order number **LTC 0435-28**

##### LTC 0435-28W

Camera, color, 2.8-10 mm lens, 24 V 60 Hz, white  
mount  
Order number **LTC 0435-28W**

##### LTC 0455-28

Camera, color, 2.8-10 mm lens, 24 V 60 Hz  
Order number **LTC 0455-28**

##### LTC 0455-28W

Camera, color, 2.8-10 mm lens, 24 V 60 Hz, white  
mount  
Order number **LTC 0455-28W**

##### LTC 0485-28

Camera, color, 2.8-10 mm lens, 24 VAC, 60 Hz  
Order number **LTC 0485-28**

##### LTC 0485-28W

Camera, color, 2.8-10 mm lens, 24 VAC, 60 Hz, silver  
mount  
Order number **LTC 0485-28W**

##### LTC 0498-28

Day/night camera, 2.8-11 mm lens, 24 VAC, 60 Hz  
Order number **LTC 0498-28**



**LTC 0498-28W**

Day/night camera, 2.8-11 mm lens, 24 VAC, 60 Hz, with mount

Order number **LTC 0498-28W**

**LTC 0498-75**

Day/night camera, 7.5-50 mm lens, 24 VAC, 60 Hz

Order number **LTC 0498-75**

**LTC 0498-75W**

Day/night camera, 7.5-50 mm lens, 24 VAC, 60 Hz, with mount

Order number **LTC 0498-75W**

**NBC-455-28 IP Color Camera**

Dinion IP Color camera, 1/3 in., 2.8-10 mm lens, 12VDC/24 VAC, 60 Hz, PoE, H.264, MicroSD card slot

Order number **NBC-455-28**

**NBC-455-28V IP Color Camera with IVA**

Dinion IP Color camera, 1/3 in., 2.8-10 mm lens, 12VDC/24 VAC, 60 Hz, PoE, IVA, H.264, MicroSD card slot

Order number **NBC-455-28V**

**NBC-455-55 IP Color Camera**

Dinion IP Color camera, 1/3 in., 5-50 mm lens, 12VDC/24 VAC, 60 Hz, PoE, H.264, MicroSD card slot

Order number **NBC-455-55**

**NBC-455-55V IP Color Camera with IVA**

Dinion IP Color camera, 1/3 in., 5-50 mm lens, 12VDC/24 VAC, 60 Hz, PoE, IVA, H.264, MicroSD card slot

Order number **NBC-455-55V**

**NBN-498-28 IP Day/Night Camera**

Dinion IP Day/Night camera, 1/3 in., 2.8-11 mm lens, WDR, 12VDC/24VAC, 60 Hz, PoE, H.264, MicroSD card slot

Order number **NBN-498-28**

**NBN-498-28V IP Day/Night Camera with IVA**

Dinion IP Day/Night camera, 1/3 in., 2.8-11 mm lens, WDR, 12VDC/24VAC, 60 Hz, PoE, IVA, H.264, MicroSD card slot

Order number **NBN-498-28V**

**NBN-498-75 IP Day/Night Camera**

Dinion IP Day/Night camera, 1/3 in., 7.5-50 mm lens, WDR, 12VDC/24VAC, 60 Hz, PoE, H.264, MicroSD card slot

Order number **NBN-498-75**

**NBN-498-75V IP Day/Night Camera with IVA**

Dinion IP Day/Night camera, 1/3 in., 7.5-50 mm lens, WDR, 12VDC/24VAC, 60 Hz, PoE, IVA, H.264, MicroSD card slot

Order number **NBN-498-75V**

**NBC-455-28W IP Color Camera Kit**

Dinion IP Color Camera Kit, 2.8 – 10 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBC-455-28W**

**NBC-455-28WV IP Color Camera Kit with IVA**

Dinion IP Color Camera Kit with IVA, 2.8 – 10 mm, 12VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBC-455-28WV**

**NBC-455-55W IP Color Camera Kit**

Dinion IP Color Camera Kit, 5 - 50 mm, 12VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBC-455-55W**

**NBC-455-55WV IP Color Camera Kit with IVA**

Dinion IP Color Camera Kit with IVA, 5 – 50 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBC-455-55WV**

**NBN-498-28W IP Day/Night Camera Kit**

Dinion IP Day/Night Camera Kit, 2.8 – 11 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBN-498-28W**

**NBN-498-28WV IP Day/Night Camera Kit with IVA**

Dinion IP Day/Night Camera Kit with IVA, 2.8 – 11 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBN-498-28WV**

**NBN-498-75W IP Day/Night Camera Kit**

Dinion IP Day/Night Camera Kit, 7.5 - 50 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBN-498-75W**

**NBN-498-75WV IP Day/Night Camera Kit with IVA**

Dinion IP Day/Night Camera Kit with IVA, 7.5 - 50 mm, 12 VDC / 24 VAC, 60 Hz, silver mount, H.264, MicroSD card slot

Order number **NBN-498-75WV**

**NBN-832-18W HD Day/Night Camera**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 1.8-3 mm lens, 12VDC/24 VAC, 60 Hz, PoE, H.264, MicroSD card slot, with mount

Order number **NBN-832-18W**

**NBN-832-18WV HD Day/Night Camera with IVA**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 1.8-3 mm lens, 12VDC/24 VAC, 60 Hz, PoE, IVA, H.264, MicroSD card slot, with mount

Order number **NBN-832-18WV**

**NBN-832-38W HD Day/Night Camera**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 3.8-13 mm lens, 12VDC/24 VAC, 60 Hz, PoE, H.264, MicroSD card slot, with mount

Order number **NBN-832-38W**

**NBN-832-38WV HD Day/Night Camera with IVA**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 3.8-13 mm lens, 12VDC/24 VAC, 60 Hz, PoE, IVA  
H.264, MicroSD card slot, with mount  
Order number **NBN-832-38WV**

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**NBN-832-94W HD Day/Night Camera**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 9-40 mm lens, 12VDC/24 VAC, 60 Hz, PoE,  
H.264, MicroSD card slot, with mount  
Order number **NBN-832-94W**

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**NBN-832-94WV HD Day/Night Camera with IVA**

Dinion 1080p HD Day/Night camera, 1/2.7 in., 9-40 mm lens, 12VDC/24 VAC, 60 Hz, PoE, IVA,  
H.264, MicroSD card slot, with mount  
Order number **NBN-832-94WV**

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**Accessories****EX12LED8M LED Infrared Illuminator**

Infrared w/ 42 LEDs, 850 nm, Med Beam 30°, 12/24 VRB, 0.5 amp, Photocell  
Order number **EX12LED8M**

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**EX12LED9M LED Infrared Illuminator**

Infrared w/ 42 LEDs, 940 nm, Med Beam 30°, 12/24 VRB, 0.5 amp, Photocell  
Order number **EX12LED9M**

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**EX12LED8W LED Infrared Illuminator**

Infrared w/ 42 LEDs, 850 nm, Wide Beam 60°, 12/24 VRB, 0.5 amp, Photocell  
Order number **EX12LED8W**

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**EX12LED9W LED Infrared Illuminator**

Infrared w/ 42 LEDs, 940 nm, Wide Beam 60°, 12/24 VRB, 0.5 amp, Photocell  
Order number **EX12LED9W**

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**UPA-1220-60 Power Supply**

120 VAC, 60 Hz, 12 VDC, 1 A Out, regulated  
Order number **UPA-1220-60**

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**UPA-2410-60 Power Supply**

120 VAC, 60 Hz, 24 VAC, 10 VA Out  
Order number **UPA-2410-60**

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**TC8235GIT Ground Loop Isolation Transformer**

Order number **TC8235GIT**

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**Software Options****VP-CFGSFT Configuration Software**

for cameras using Bilinx, includes VP-USB Adaptor  
Order number **VP-CFGSFT**

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