

# DINION AN bullet 4000

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Invented for life



- ▶ Ultra high resolution 960H (1/3") sensor
- ▶ Digitally Extended Dynamic Range
- ▶ Digital noise reduction
- ▶ True Day/Night switching
- ▶ Vandal and water resistant enclosure

These outdoor bullet cameras are stylish surveillance cameras that offer excellent resolution in variable lighting conditions. The high performance 960H 1/3-inch CCD sensor provides a resolution of 720TVL. The water resistant (IP66 rated) and vandal resistant (IK08 rated) housing ensures reliable video surveillance in a variety of indoor and outdoor applications.

The cameras are easy to install and parameters can be set individually. Privacy zones and motion detection functions can be set up in the handy camera menu system.

The true day/night feature automatically switches from color to monochrome using a mechanical IR filter depending on the available light.

## System overview

The camera is supplied ready to operate. For especially challenging situations where fine tuning or special settings are required, the camera parameters can be individually set using the control buttons on the camera and an On-Screen Display (OSD).

## Functions

### Day/Night mode

The true day/night feature provides enhanced night viewing. The mechanical IR filter switches from color to monochrome automatically by sensing the illumination level.

### Ideal picture performance

There are many settings available to help fine-tune the picture performance to match your installation environment. These include:

- BLC – automatically and dynamically compensates for strong backlight
- HLC – reduces glare from highlight areas
- Digital dynamic range – extends dynamic range of visible areas
- Contrast and sharpness – enhance details in bright or misty scenes
- Dynamic noise reduction – dynamically reduces noise in the picture

### Privacy masking

Four different privacy zones allow specific parts of a scene to be blocked. Pre-program any part of the scene to be masked.

### Video Motion Detection

The built-in video motion detector allows you to select four programmable areas with sensitivity thresholds. When motion is detected, alarms can be displayed in the video signal.

#### Typical applications:

- Museums and art galleries
- Shopping centers
- Offices
- Schools, colleges and universities
- Petrol/gas stations

### Certifications and approvals

|     |  |
|-----|--|
| FCC | ANSI C 63.4:2003<br>FCC Part 15 Subpart B<br>Class A   |
| UL  | UL 60065, 7th Edition, 2007-12-11<br>CAN/CSA-C22.2 No. 60065-03, 1st Edition,<br>2006-04 + A1:2006 |
| EU  | EN 55022:2006/A1:2007<br>EN 50130-4:1995/A2:2003<br>EN 61000-3-3:2008                              |
| LVD | LVD 2006/95/EC<br>EN 60065:2002+A1+A2+A11+A12  |
| IP  | IP 66<br>KS C IEC 60529:2006   |

| Region | Certification |
|--------|---------------|
| Europe | CE            |

### Technical specifications

|                          |   |
|--------------------------|---|
| Image Sensor             | 960H, 1/3" CCD, sensor resolution 720TVL    |
| System                   | PAL or NTSC                                 |
| Total pixels (H x V)     | 1020 x 596 (PAL)<br>1020 x 508 (NTSC)       |
| Effective pixels (H x V) | 976 x 582 (PAL)<br>976 x 494 (NTSC)         |
| Lens type                | Varifocal auto Iris lens built-in           |
| Focal length             | 2.8 to 12 mm                                |
| Lens aperture            | F1.4 – 360                                  |
| Lens adjustment          | Internal                                    |
| Day/Night switching      | True Day/Night mechanical filter            |
| Video Output             | Composite: 1 Vpp, 75 Ohm                    |
| Supply Voltage           | 12 VDC or<br>24 VAC                         |
| Power Consumption        | 190 mA (12 VDC) max.<br>2.9 W (24 VAC) max. |
| Sync. System             | Internal sync., Line-lock                   |

|                                     |   |
|-------------------------------------|---|
| S/N Ratio (AGC off)                 | 50 dB min.  |
| Sensitivity (F1.4, 50IRE, AGC max.) | Color: 0.5 lx<br>Mono: 0.02 lx  |
| Electronic shutter                  | 1/50 – 1/10,000 (PAL)<br>1/60 – 1/10,000 (NTSC)                                     |
| AGC                                 | 0 to 20   |
| Digital Noise Reduction (DNR)       | Off, On (adjustable)  |
| Dynamic Range (DYN)                 | Off, On (adjustable)  |
| White Balance                       | ATW, Push, User1, User2, Anti CR, Manual, Push lock                                 |
| Light compensation                  | OFF, BLC, HLC   |
| Day/Night                           | Auto, Color, B/W  |
| Burst                               | On, Off   |
| Motion detection                    | On, Off (4 programmable zones)  |
| Privacy                             | On, Off (4 programmable zones)  |
| Sharpness                           | 0 - 15  |
| OSD language                        | English, Japanese, German, French, Russian, Portuguese, Spanish, Simplified Chinese |
| Mounting                            | Cable-managed mounting bracket included   |
| Dimensions (Ø x L)                  | 70 x 120 mm (2.75 x 4.72 in)  |
| Weight (including bracket)          | 0.96 kg (2.12 lb)   |
| Housing                             | Casted / machined aluminum  |
| Color                               | Camera / bracket: Black RAL9017<br>Sunshield: Silver grey RAL9006                   |
| Water/dust protection               | IP66  |
| Impact resistance                   | IK08  |
| Operating Temperature               | -30 °C to +50 °C (-22 °F to +122 °F)  |
| Storage Temperature                 | -20 °C to +60 °C (-4 °F to +140 °F)   |
| Storage Humidity                    | 20% to 90% RH   |

### Ordering information

#### DINION AN bullet 4000

960H analog outdoor bullet camera. IP66; IK08; true day/night; DWDR; 720 TVL; 3-axis adjustment; 4-zone motion detect; 4-zone privacy mask; varifocal 2.8 to 12 mm lens; 12VDC/24VAC; PAL  
Order number **VTN-4075-V311**

**DINION AN bullet 4000**

960H analog outdoor bullet camera. IP66; IK08; true day/night; DWDR; 720 TVL; 3-axis adjustment; 4-zone motion detect; 4-zone privacy mask; varifocal 2.8 to 12 mm lens; 12VDC/24VAC; NTSC  
Order number **VTN-4075-V321**

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**DINION AN bullet 4000**

960H analog outdoor bullet camera. IP66; IK08; true day/night; DWDR; 720 TVL; 3-axis adjustment; 4-zone motion detect; 4-zone privacy mask; varifocal 2.8 to 12 mm lens; 12VDC/24VAC; Chinese plug  
Order number **VTN-4075-V311C**

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