

DINION 4000 AN

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Invented for life



- ▶ Ultra high resolution 960H (1/3") sensor
- ▶ Digital extended dynamic range
- ▶ Digital noise reduction
- ▶ Easy to install
- ▶ True day/night version

DINION 4000 cameras are compact analog cameras that offer excellent resolution in variable lighting conditions, day or night. The high performance 960H 1/3-inch CCD sensor provides a resolution of 720TVL. The cameras are an ideal solution for demanding scene conditions. The backlight compensation and highlight compensation features optimize the image visibility in high-contrast areas, automatically compensating for bright backgrounds and strong light sources.

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 version 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 – simply attach the lens, connect video and then power. 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 side of the camera and an On-Screen Display (OSD).

Functions

Day/Night mode

The true day/night version provides enhanced night viewing. The mechanical IR filter can switch from color to monochrome automatically by either sensing the illumination level or via the alarm input. The filter can be switched manually via the alarm input or through the camera.

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

Eight 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 (the true day/night version can close the output relay).

Typical applications:

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

Certifications and approvals

Standards

| | |
|--------------------------------|--|
| Safety (low voltage versions) | EN 60950-1 UL 60950-1 (2 nd edition) CSA C22.2 No. 60950-1-07 (2 nd edition) |
| Safety (high voltage versions) | EN 60950-1 |
| | C-Tick |
| Emission | EN 55022 class B, FCC part 15 class B, EN61000-3-2, EN61000-3-3 |
| Immunity | EN 50130-4, EN 50121-4 |
| Vibration | Camera with 500 g (1.1 lbs) lens according to IEC 60068-2-6 |

| Region | Certification |
|--------|-----------------|
| Europe | CE |
| | CE High Voltage |
| USA | UL |
| | FCC |
| Canada | CSA |

Technical specifications

| | |
|------------------------------------|--|
| Image Sensor | 960H, 1/3" CCD, sensor resolution 720TVL |
| System | PAL or NTSC |
| Total pixels (H x V) | 1020 x 596 (PAL) 1020 x 508 (NTSC) |
| Effective pixels (H x V) | 976 x 582 (PAL) 976 x 494 (NTSC) |
| Video Output | Composite: 1 Vpp, 75 Ohm |
| Sync. System | Internal sync., Line-lock |
| S/N Ratio (sharpness, AGC off) | 52 dB min. |
| Minimum Illumination (F1.2, 50IRE) | Color: 0.1 lx B/W: 0.02 lx (true D/N version) |

| | |
|---|--|
| Minimum Illumination (F1.2, 30IRE) | Color: 0.05 lx B/W: 0.01 lx (true D/N version) |
| Manual shutter | 1/50 – 1/10,000 (PAL) 1/60 – 1/10,000 (NTSC) |
| Digital Noise reduction | 2DNR |
| White Balance | ATW, Push, User1, User2, Anti CR, Manual, Push lock |
| Light compensation | OFF/BLC/HLC |
| Digital Dynamic Engine | On, Off |
| AGC | On, Off |
| Day/Night | Auto, Color, B/W |
| Burst | On, Off |
| Motion detection | 4 programmable zones |
| Privacy | 8 programmable zones (4 zones when motion detection is on) |
| Mirror | On (horizontal), Off |
| Sharpness | 0 - 255 |
| Alarm input (true D/N version only) | Night mode active profile switching, 3.3 V nominal, +40 VDC max. |
| Alarm output (true D/N version only) | Night mode active, 30 VAC or +40 VDC, max. 0.5 A continuous, 10 VA |
| OSD language | English, Japanese, German, French, Russian, Portuguese, Spanish, Simplified Chinese |
| Lens type | Manual, DC Iris DC Iris drive: 50 mA max. |
| Lens mount | CS (max. lens protrusion 5 mm [0.2 in]) C-mount compatible with optional adapter ring |
| Tripod mount | Bottom (isolated) and top 1/4-inch 20 UNC |
| Supply Voltage (VBx-4075-C11, VBx-4075-C21) | 12 VDC / 24 VAC |
| Supply Voltage (VBx-4075-C51) | 230 VAC |
| Power Consumption (true D/N version) | 3.6 W max. / 0.3 A |
| Power Consumption (electronic D/N version) | 2.4 W max. / 0.2 A |
| Dimensions (without lens) | 58 x 66 x 122 mm 2.28 x 2.6 x 4.8 in |
| Weight (12 VDC/24 VAC) | 500 g (1.10 lbs) without lens |
| Weight (230 VAC) | 600 g (1.32 lbs) without lens |

| | |
|-----------------------|---|
| Operating Temperature | -20 °C to +55 °C (-4 °F to +131 °F) |
| Operating Humidity | 20% to 90% RH |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Storage Humidity | up to 98% RH |

Ordering information

DINION 4000 AN

960H Day/Night Camera, 12 VDC/24 VAC, PAL
Order number **VCN-4075-C11**

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960H Day/Night Camera, 12 VDC/24 VAC, NTSC
Order number **VCN-4075-C21**

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960H Day/Night Camera, 230 VAC, PAL
Order number **VCN-4075-C51**

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960H Color Camera, 12 VDC/24 VAC, PAL
Order number **VCN-4075-C11**

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960H Color Camera, 12 VDC/24 VAC, NTSC
Order number **VCN-4075-C21**

DINION 4000 AN

960H Color Camera, 230 VAC, PAL
Order number **VCN-4075-C51**

Varifocal Lens 960H 1/3" 5-50 mm, F1.4

Order number **LVF-4000C-D0550**

Varifocal Lens 960H 1/3" 2.8-12 mm, F1.3

Order number **LVF-4000C-D2812**

UPA-2430-60 Power Supply

120 VAC, 60 Hz, 24 VAC, 30 VA Out
Order number **UPA-2430-60**

UPA-2420-50 Power Supply

220 VAC, 50 Hz, 24 VAC, 20 VA Out
Order number **UPA-2420-50**

Accessories

S1374 Adapter

converts C mount lens to CS mount camera
Order number **S1374**

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