DINION AN 4000

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Invented for life

960H | **BNC**

- ▶ 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 separately available 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 (2nd edition) CSA C22.2 No. 60950-1-07 (2nd 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
Marks	CE, cULus, WEEE, PADS, RCM and China RoHS

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	12 VDC: Internal sync.; 24 VAC: 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 ℃ to +55 ℃ (-4 ºF to +131 ºF)
Operating Humidity	20% to 90% RH
Storage Temperature	-40 ℃ to +70 ℃ (-40 ºF to +158 ºF)
Storage Humidity	up to 98% RH

Ordering information

DINION AN 4000
960H analog indoor box camera. True day/night;
DWDR; 720 TVL; 4-zone motion detect; 8-zone privacy
mask; 12VDC/24VAC; PAL
Order number **VBN-4075-C11**

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Accessories

LVF-4000C-D0550 Varifocal Lens
960H varifocal IR-corrected lens. 1/3" sensor; CS-
mount; 4-pin DC-iris; F1.4-360; 5 to 50 mm
Order number **LVF-4000C-D0550**

LVF-4000C-D2812 Varifocal Lens
960H varifocal IR-corrected lens. 1/3" sensor; CS-
mount; 4-pin DC-iris; F1.3-360; 2.8 to 12 mm
Order number **LVF-4000C-D2812**

UPA-2430-60 Power Supply
Power supply for camera. 120 VAC, 60 Hz; 24 VAC,
30 VA Out
Order number **UPA-2430-60**

UPA-2420-50 Power Supply
Power supply for cameras. 220 VAC, 50 Hz In; 24 VAC,
20 VA Out
Order number **UPA-2420-50**

S1374 Adapter
Adapter to convert C mount lens to CS mount camera
Order number **S1374**