# **DINION AN 4000 KIT**

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- Stylish and sturdy housing (IP66; NEMA 4x)
- Optimized image visibility in high-contrast areas
- Ultra-high resolution 960H sensor

These pre-packaged camera kits are complete surveillance systems that are quick and easy to install thanks to their plug-and-play design. Each kit includes a housing with a factory-installed high-performance DINION camera and varifocal lens, plus a swivel mount.

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 camera 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 kit is supplied ready to operate – simply connect video and supply 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

## Secure and easily-installed

The sleek and sturdy housing design meets IP66 and NEMA 4X enclosure standards to protect your video surveillance equipment from adverse elements. A builtin heater and fan keep the internal temperature of the housing within the specified operating temperatures. A permanent low-power window defroster keeps the housing window clear in high humidity and icy condition. A sunshield is fitted to the top of the housing. Tamper-resistant screws for the locking clasps prevent illegitimate access to the housing contents. Power and video cabling can be routed through external 4-pin power and BNC connectors at the rear of the housing, or through seal-tight cable glands in the foot or rear. The supplied mounting bracket has a swivel and tilt head for maximum mounting flexibility. The unique, hinged, side-opening design in the housing provides easy access to the camera/lens controls when the kit is mounted. The lens levers make it easy to accurately adjust the camera focal length and focus. The on-board camera push buttons allow the user to choose the camera setup that suits best.

## **Pre-wired**

For easy connection, some kit models have the following 1.5 m (5 ft) cables pre-wired through seal-tight cable glands in the housing foot:

- a coaxial cable (terminated with a female BNC connector) from the back of the camera
- a power cable (18 AWG, 3-conductor with flying leads) from the housing PCB

## 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

## Lens options

Two 960H IR-corrected lens versions are available for the housing kits:

- One with a 2.8-12 mm varifocal lens
- One with a 5-50 mm varifocal lens

## **Certifications and approvals**

#### Standards

Canada

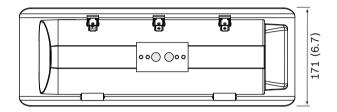
CSA

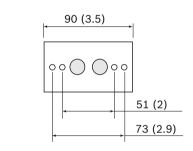
Safety (low voltage versions)EN 60950-1 UL 60950-1 (2nd edition) CSA C22.2 No. 60950-1-07 (2nd edition)Safety (high voltage versions)EN 60950-1EmissionEN 5022 class B, FCC part 15 class B, EN61000-3-2, EN61000-3-3ImmunityEN 50130-4, EN 50121-4VibrationCamera with 500 g (1.1 lbs) lens according to IEC 60068-2-6RegionCertificationEuropeCEUSAULUSAUL				
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		CE	High Voltage	
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## Installation/configuration notes

## Housing dimensions

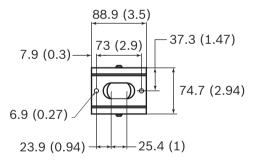


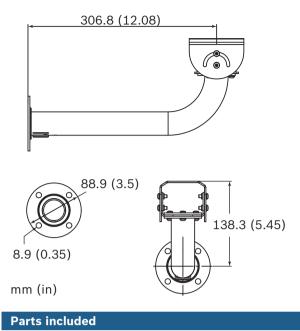




## Mount dimensions

mm (in)





	Item
1x	Housing (including built-in camera and lens, sunshield, heater and blower)
1x	Wall mount
1x	Documentation set
1x	Cable mounting package
1x	Identification labels

# **Technical specifications**

# Housing

x 171.3 x 480 mm (5 x 6.7 x )
(8.6 lbs)
um casing, neoprene gaskets, all ss steel hardware, 3.3 mm .) thick glass window
r-resistant screws provided
able camera/lens tray, mounted o screws
L x 262 mm (3.6 x 3.2 x 10.3 in)
of tapped holes (1/4-20 thread) inner pair: 50.8 mm (2.0 in) center spread outer pair: 73.7 mm (2.9 in) center spread

Mechanical				
		1		
Rear fittings (-20 m	iodeis)	1x cable diameter: 3.5 to 8.0 mm (0.14 to 0.32 in)		
		2x cable diameter: 5.8 to 10 mm (0.23 to 0.39 in)		
Rear connectors (-5 models)	50	1x 4-pin (power) 1x BNC (hybrid analog video)		
Bottom fittings (-20 models)	)	2x cable diameter: 4.5 to 7.9 mm (0.18 to 0.31 in)		
Power				
Power input	fı	freq. 50 Hz		
(230 VAC)		onsumption 45 W use 2 A		
		req. 60 Hz		
(24 VAC)		consumption 45 W fuse 4 A		
Environmental				
Operating - Temperature		-40°C to +50°C (-40°F to 122°F)		
Storage Temperature -40		10°C to +70°C (-40°F to +158°F)		
Operating Humidity 20		20% to 93% RH		
Storage Humidity		up to 98% RH		
Enclosure protection I		IP66, NEMA 4X		
Camera				
Sensor				
Туре		960H, 1/3" DS CCD, sensor resolution 720TVL, WDR dual shutter		
Type				
System	7			
	7 P 1	20TVL, WDR dual shutter		
System	7 P 1 1 ( 9	20TVL, WDR dual shutter PAL or NTSC .020 x 596 (PAL)		
System Total pixels (H x V) Effective pixels (H x V)	7 P 1 1 1 ( 9 9	20TVL, WDR dual shutter PAL or NTSC .020 x 596 (PAL) .020 x 508 (NTSC) P76 x 582 (PAL)		
System Total pixels (H x V) Effective pixels (H >	7 P 1 1 1 ( 9 9 9	220TVL, WDR dual shutter PAL or NTSC .020 x 596 (PAL) .020 x 508 (NTSC) 076 x 582 (PAL) 076 x 494 (NTSC)		
System Total pixels (H x V) Effective pixels (H x V) Video performance	7 P 1 1 1 3 9 9 9 WK, reflee	220TVL, WDR dual shutter PAL or NTSC .020 x 596 (PAL) .020 x 508 (NTSC) 276 x 582 (PAL) 276 x 494 (NTSC) ctivity 89%, F1.2) e picture Usable picture		
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System Total pixels (H x V) Effective pixels (H x V) Video performance Sensitivity – (3200	7 P 1 1 4 9 9 9 9 9 0 K, reflet Usable (50 IR	20TVL, WDR dual shutter     PAL or NTSC     .020 x 596 (PAL)     .020 x 508 (NTSC)     D76 x 582 (PAL)     D76 x 494 (NTSC)     ctivity 89%, F1.2)     e picture   Usable picture     E)   0.05 lx		
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System Total pixels (H x V) Effective pixels (H x V) Video performance Sensitivity – (3200 Color Monochrome	7 P 1 1 1 3 9 9 9 9 0 8 K, reflec (50 IR 0.1 lx 0.02 b	20TVL, WDR dual shutter     PAL or NTSC     .020 x 596 (PAL)     .020 x 508 (NTSC)     D76 x 582 (PAL)     D76 x 494 (NTSC)     ctivity 89%, F1.2)     e picture   Usable picture     E)   0.05 lx		
System Total pixels (H x V) Effective pixels (H x V) Video performance Sensitivity – (3200 Color Monochrome Video functions	7 P 1 1 1 ( 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	'20TVL, WDR dual shutter     PAL or NTSC     .020 x 596 (PAL)     .020 x 508 (NTSC)     D76 x 582 (PAL)     D76 x 494 (NTSC)     Etivity 89%, F1.2)     e picture     E)     0.05 lx     x   0.01 lx		

Video functions				
Manual shutter	1/50 – 1/10,000 (PA	1/50 – 1/10 000 (PAL)		
		1/60 – 1/10,000 (NTSC)		
Digital Noise reduction	2DNR	2DNR		
White Balance	ATW, Push, User1, Use Push lock	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	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	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	Lens			
	LVF-4000C-D2812 Varifocal Lens	LVF-4000C-D0550 Varifocal Lens		
Focal length	2.8 – 12 mm	5.0 – 50 mm		
Iris range	F1.3-360	F1.4-360		
Min object distance	0.3 m (1.0 ft)	0.5 m (1.6 ft)		
Lens mount	CS	CS		
Angle of view (HxV)	W: 102.2 x 74.2 T: 23.7 x 17.8	W: 49 x 36.7 T: 5.47 x 4.1		
MTF on-axis (Ip/mm)	>178 >146 (IR)	>145 >119 (IR)		
MTF off-axis (Ip/mm)	>123 >79 (IR)	>71 >30 (IR)		
Iris control	4-pin, DC control	4-pin, DC control		
Focus control	manual	manual		
Zoom control	manual	manual		
IR corrected	yes	yes		

## Mount

Mount LTC 9215/00		
Length	300 mm (12 in)	
Maximum Load	9 kg (20 lb)	
Mounting Head	Adjustable 360° pan, 180° tilt	
Finish	Light gray	
Approx. Weight	0.4 kg (0.9 lb)	
Mounting	2 x tapped holes Thread: 1/4-20 73.7 mm (2.9 in) center spread	

## **Ordering information**

## **DINION AN 4000 KIT**

High-performance 960H analog camera and lens in 24 VAC (60 Hz) housing. DWDR; 720 TVL; 4-zone motion detect; 8-zone privacy mask; NTSC; 2.8-12 mm lens; pre-wired

Order number VKC-4075V4-20

#### **DINION AN 4000 KIT**

High-performance 960H analog box camera in 24 VAC (60 Hz) housing. DWDR; 720 TVL; 4-zone motion detect; 8-zone privacy mask; NTSC; 5-50 mm lens; prewired

Order number VKC-4075V10-20

## **DINION AN 4000 KIT**

High-performance 960H analog box camera in 230 VAC (50 Hz) housing. DWDR; 720 TVL; 4-zone motion detect; 8-zone privacy mask; PAL; 2.8-12 mm lens Order number VKC-4075V4-50

#### **DINION AN 4000 KIT**

High-performance 960H analog box camera in 230 VAC (50 Hz) housing. DWDR; 720 TVL; 4-zone motion detect; 8-zone privacy mask; PAL; 5-50 mm lens Order number VKC-4075V10-50

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