DINION AN 5000 KIT

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- ▶ Stylish and sturdy housing (IP66; NEMA 4x)
- ▶ Ultra-high resolution 960H sensor
- ► Excellent extreme-light performance
- ▶ Bilinx for bidirectional communication

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.

The DINION 5000 camera combines high resolution with high dynamic range in a true day/night analog camera. The high performance 960H 1/3-inch CCD sensor with a resolution of 720TVL, the high dynamic range engine, and the advanced image processing technology combine to provide a detailed image with outstanding accuracy in color reproduction even under harsh lighting conditions. True day/night performance ensures the highest image quality possible at any time, day or night. The camera offers the best solution for demanding scene conditions.

System overview

The camera kit is supplied ready to operate – simply connect video and supply power. Six distinct preprogrammed operational modes are stored in the camera. Recall the mode that suits your application for optimized performance. The lens wizard ensures accurate back-focusing for perfectly sharp pictures at all times. 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 Onscreen 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 built-in 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. A lens wizard helps focus the lens at the maximum opening to ensure proper back-focus is maintained throughout the 24-hour cycle. No special tools or filters are required.

Six independent, pre-programmed operating modes support typical applications, but are fully programmable for individual situations.

Other features to make installation easy are a multilanguage On-Screen Display (OSD) and a built-in test pattern generator that produces signals for testing.

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

Detail in extreme lighting

In harsh lighting, the difference between the brightest and the darkest parts of a scene can be extreme. To produce a clear picture in these conditions, the CCD sensor in the camera generates two images; one long exposure to resolve details in the scene's darkest areas, and one short exposure to resolve details in the scene's brightest areas. The advanced image processing technology in the camera combines these dual shutter images, mixing pixels from each exposure to produce the most detailed image possible. The superior wide dynamic range for all lighting conditions reveals details previously unseen.

Day/Night mode

The day/night mode provides enhanced night viewing by increasing the IR sensitivity. The 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, through the camera menu or via the Bilinx coaxial control interface. An internal through-the-lens IR detector enhances the monochrome mode stability, as it prevents reverting to the color mode when IR illumination is dominant. IR contrast is also measured and used to handle reflected IR light in outdoor scenes.

Bilinx technology

Bilinx is a bidirectional communication capability embedded in the video signal of this camera. Installers can check status, change camera settings and even update firmware from virtually anywhere along the video cable. Bilinx reduces service and installation time, provides for more accurate set-up and adjustment, and improves overall performance. In addition, Bilinx uses the standard video cable to transmit alarm and status messages, providing superior performance without additional installation steps.

Ideal picture performance

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

- Smart BLC automatically and dynamically compensates for strong backlight
- Peak White Invert reduces glare from highlight areas
- Contrast and sharpness enhance details in bright or misty scenes
- SensUp sensitivity is dramatically enhanced by a factor of 10
- Default shutter improves the motion performance in auto exposure mode
- Dynamic noise reduction dynamically reduces noise in the picture

Privacy masking

Fifteen 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 output relay can be closed or an alarm message can be transmitted via Bilinx.

Typical applications:

- Entrance foyer or lobby with glare
- · Outdoor perimeters
 - low light
 - IR light
- Traffic monitoring
 - highway
 - traffic intersections
 - emergency response coordination
- Tunnels
- Car parks (outdoor)
- · Restricted access locations such as:
 - prisons
 - ports / freight terminals
 - military facilities
 - border control and homeland
- · Casino and gambling centers

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

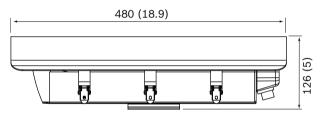
Standards	FCC Part15 Subpart B, Class B
	EN 55022 class B
	EN61000-3-2
	EN61000-3-3,
	EN 50130-4
	EN 50121-4

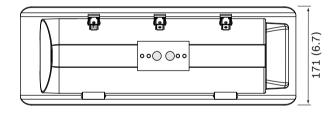
	Camera with 500 g (1.1 lbs) lens according to IEC 60068-2-6
VKN-5085V4-20; VKN-5085V10-20	EN60950-1, UL60950-1 (2 ND edition), CSA C22.2 No. 60950-1-07 (2 ND edition)
VKN-5085V4-50; VKN-5085V10-50	EN60950-1
Product certifications	CE, FCC, UL, CSA

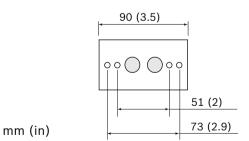
Region	Certification
Europe	CE
USA	UL
	FCC
Canada	CSA

Installation/configuration notes

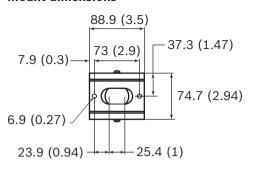
Housing dimensions

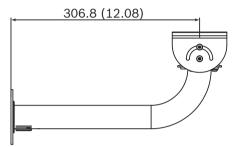


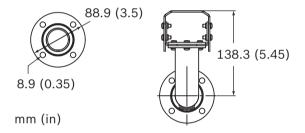




Mount dimensions







Parts included

	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

Mechanical		
Dimensions (H x W x L) - closed and including sunshield	126.5 x 171.3 x 480 mm (5 x 6.7 x 18.9 in.)	
Weight (including camera and lens)	3.9 kg (8.6 lbs)	
Construction	Aluminum casing, neoprene gaskets, all stainless steel hardware, 3.3 mm (1/8 in.) thick glass window	

Color		Gray	
Locking clasps (3x)		Tamper-resistant screw	s provided
Camera mounting		Removable camera/lens with two screws	tray, mounted
Max camera + lens size (H x W x L)		91 x 81 x 262 mm (3.6	x 3.2 x 10.3 in)
Mounting		2 x pair of tapped holes	mm (2.0 in)
Rear fittings (-20 models)		1x cable diameter: 3.5 t to 0.32 in) 2x cable diameter: 5.8 t to 0.39 in)	`
Rear connectors (-50 models)		1x 4-pin (power) 1x BNC (hybrid analog v	ideo)
Bottom fittings (-20 models)		2x cable diameter: 4.5 to 7.9 mm (0.18 to 0.31 in)	
Power			
Power input (230 VAC)	freq. 50 Hz consumption 45 W fuse 2 A		
Power input (24 VAC)	freq. 60 Hz consumption 45 W fuse 4 A		
Environmental			
Operating Temperature	-40°C to +50°C (-40°F to 122°F)		?°F)
Storage Temperature	-40	°C to +70°C (-40°F to +15	58°F)
Operating Humidity	20% to 93% RH		
Storage Humidity	up to 98% RH		
Enclosure protection	IP6	6, NEMA 4X	
Camera			
Sensor			
Туре	960H, 1/3" DS CCD, sensor resolution 720TVL, WDR dual shutter		resolution
System	PAL or NTSC		
Total pixels (H x V)	1020 x 596 (PAL) 1020 x 508 (NTSC)		
Effective pixels (H x	976 x 582 (PAL) 976 x 494 (NTSC)		
V)			
Video performance			
,	flecti	vity 89%, F1.2)	

Video performance					
	(100 IRE)		(50 IRE)	(30 IRE)	
Color	0.5 lx (0.0465 fc)		0.09 lx (0.00837 fc)	0.04 lx (0.00372 fc)	
Color + SensUp 10x	0.05 lx (0.00465 fc)		0.009 lx (0.000837 fc)	0.0041 (0.000372 fc)	
Monochrome	0.2 lx (0.01	86 fc)	0.04 lx (0.00372 fc)	0.02 lx (0.00186 fc)	
Monochrome SensUp 10x	0.021	x 186 fc)	0.004 lx (0.000372 fc)	0.002 lx (0.000186 fc)	
Video functions					
Signal-to-Noise	Ratio	>54 dB			
Video Output		Compos	site video 1 Vpp, 75 c	hm	
Synchronization	1	Internal	, Line Lock		
Shutter			/50 [1/60] to 1/1000 ickerless, default	000) selectable,	
Sensitivity Up		Adjusta	Adjustable from Off up to 10x		
Day/Night		Color, N	Color, Mono, Auto		
Dynamic Engine			XF-Dynamic, HDR, Smart BLC		
Dynamic Range		94 dB (WDR)			
		2D-NR,	2D-NR, 3D-NR		
AGC	AGC		AGC On or Off (0 – 40 dB) selectable		
		On/Off	On/Off		
Peak White Invert		On/Off			
White Balance		ATW Inc	door, ATW Outdoor, A	TW hold and	
Contrast Enhancement		Low, Me	edium, High		
Sharpness		Sharpness enhancement level selectable			
Alarm Output		VMD or Bilinx			
Alarm Input (TTI	Alarm Input (TTL)		Profile switching, +3.3 V nominal, +40 VDC max.		
Alarm Output Relay		30 VAC or +40 VDC, Max 0.5 A continuous, 10 VA			
Cable Compensation		Up to 1000 m (3000 ft) coax without external amplifiers (automatic set-up in combination with Bilinx coaxial communication)			
			17 character editable string, position selectable		
Test Pattern Generator			Color bar, Raster, Impulse, Cross Impulse, Cross hatch,		
Modes		6 prese	6 preset programmable modes		
Remote Control		Bilinx coaxial bi-directional communication			

Video functions	
Video Motion Detection	4 areas, fully programmable
Privacy Masking	15 independent areas, fully programmable
E-Zoom	Up to 16x
Digital Image Stabilizer	On/Off
Controls	OSD with soft-key operation
OSD Language	English, French, German, Spanish, Portuguese, Simplified Chinese, Russian

Lens

	LVF-5000C-D2811 Varifocal Lens	LVF-5000C-D0550 Varifocal Lens
Focal length	2.8 – 11 mm	5.0 – 50 mm
Iris range	F1.4 - 360	F1.6 - 360
Min object distance	0.3 m (1.0 ft)	0.3 m (1.0 ft)
Lens mount	CS	CS
Angle of view (HxV)	W: 97.4 x 72.4 T: 26.2 x 19.7	W: 51.2 x 39.4 T: 5.3 x 4.1
MTF on-axis (lp/mm)	>250 >223 (IR)	>165 >144 (IR)
MTF off-axis (lp/mm)	>145 >131 (IR)	>81 >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 5000 KIT

High-performance 960H analog box camera in 24 VAC (60 Hz) housing. WDR; 720 TVL; 4-zone motion detect; 15-zone privacy mask; NTSC; 2.8-11 mm lens; prewired

Order number VKN-5085V4-20

DINION AN 5000 KIT

High-performance 960H analog box camera in 24 VAC (60 Hz) housing. WDR; 720 TVL; 4-zone motion detect; 15-zone privacy mask; NTSC; 5-50 mm lens; pre-wired Order number **VKN-5085V10-20**

DINION AN 5000 KIT

High-performance 960H analog box camera in a 230 VAC (50 Hz) housing. WDR; 720 TVL; 4-zone motion detect; 15-zone privacy mask; PAL; 2.8-11 mm lens

Order number VKN-5085V4-50

DINION AN 5000 KIT

High-performance 960H analog box camera in 230 VAC (50 Hz) housing. WDR; 720 TVL; 4-zone motion detect; 15-zone privacy mask; PAL; 5-50 mm lens Order number VKN-5085V10-50

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