NBN-498 Dinion2X Day/Night IP Cameras

www.boschsecurity.com





- ▶ 1/3-inch Day/Night CCD with progressive scan
- 20-bit image processing technology
- Wide Dynamic Range, 2X-dynamic engine and SmartBLC
- Quad streaming
- Flexible recording options

Dinion2X Day/Night IP cameras are progressive scan CCD cameras. They can quad-stream video simultaneously — on two H.264 streams, an I-frame recording stream, and an M-JPEG stream. Equipped with 20-bit DSP with 2X-dynamic, they have a wide dynamic range for a sharper, more detailed image with outstanding color reproduction.

Features such as multicasting, internet streaming and iSCSI recording are fully supported. Dinion2X Day/ Night IP cameras have built-in video motion detection and additional processing power for video content analysis systems.

Supporting the award-winning Dinion2X digital imaging technology, they provide proven, dependable service for the most demanding security and surveillance requirements, day or night.

Functions

Progressive scan

To capture sharp images, even in busy scenes with high motion content, the Dinion camera uses progressive scan technology.

Superior image quality

With a 1/3-inch CCD and Bosch's advanced digital signal processing, the Dinion2X Day/Night IP camera provides outstanding image quality in virtually all situations. The highly accurate 20-bit digital signal is automatically processed to reveal every detail of the image in both the high and low-light areas of the scene simultaneously.

20-bit Image Processing

The highly accurate digital signal processing optimally captures the detail in both bright highlights and deep shadows simultaneously. By combining 20-bit image processing and wide dynamic range, the Dinion2X maximizes the information visible in the picture even with strong backlight.

Wide Dynamic Range

The superior wide dynamic range performance for all lighting conditions reveals details previously unseen.

2X-Dynamic and SmartBLC

Using 2X-Dynamic technology, pixel-by-pixel analysis provides the user with the most detailed information. Turn on SmartBLC to automatically compensate the image without the need for complicated set-up or without compromising dynamic range. Features such as Autoblack and Sharpness further improve the details in a scene, pixel by pixel.

Programmable Modes

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

Day/Night switching

In night mode, the camera enhances low light viewing by switching the IR (infrared) filter out of the optical path and providing a monochrome image. The camera can switch from color to monochrome mode automatically by sensing the illumination level, manually via the alarm input, or remotely via a web browser. An internal, through-the-lens IR detector enhances monochrome mode stability by preventing the camera from returning to color mode when IR-illumination is dominant.

Privacy masking

Four different privacy zones allow specific parts of a scene to be blocked. A mask for any part of the scene can be pre-programmed.

Default Shutter

The default shutter speed captures fast moving objects when sufficient light is available. When light levels fall and other adjustments have been exhausted, the shutter speed reverts to a standard setting to maintain sensitivity.

SensUp Dynamic

By increasing the integration time up to 10 times on the CCD, the effective sensitivity is dramatically enhanced. This is especially useful when relying only on moonlight for illumination.

Efficient bandwidth and storage management

The cameras use H.264 (Main Profile) compression, bandwidth throttling, and multicasting capabilities to manage bandwidth and storage requirements efficiently, while delivering high image quality and resolution. Bosch's innovative Quad-streaming feature enables the Dinion2X IP to deliver three H.264 streams (two 4CIF streams and an I-frame only stream) together with an M-JPEG stream. These four streams facilitate bandwidth-efficient viewing and recording options as well as integration with third-party video management systems.

Dinion2X IP cameras offer unparalleled recording options. Attached to the network, they can use iSCSI targets directly without any additional recording software. The recording capabilities of the system can be further enhanced by using the Bosch Video Recording Manager.

The camera also supports local recording on a microSD card. This can be used for local alarm recording or for Automatic Network Replenishment (ANR) to improve the overall reliability of video recording.

Standard intelligence

With built-in video content analysis, the camera reinforces the Intelligence-at-the-Edge concept where edge devices become increasingly intelligent. The MO-TION+ video motion analysis system, which is built into all camera versions, is the perfect solution for applications where basic video content analysis features are required. This motion analysis algorithm is based on pixel change and includes object size filtering capabilities and sophisticated tamper-detection capabilities.

Hardware enhanced

The hardware-enhanced version of the camera gives you the opportunity to upgrade the video content analysis features of the camera with the more advanced Intelligent Video Analysis (IVA) option. This option bases the IVA algorithm on digital imaging technology that uses multi-level image analysis of pixels, texture, and object direction, and is activated by installing a license.

ONVIF conformance

The camera conforms to the ONVIF (Open Network Video Interface Forum) specification which guarantees interoperability between network video products regardless of manufacturer. ONVIF conformant devices are able to exchange live video, audio, metadata and control information. They are automatically discovered and connected to network applications such as video management systems.

Unsurpassed flexibility

There are many ways to access the camera's video: on a PC using a web browser, with the Bosch Video Management System, or with the Bosch Video Client. The camera is also ideal for use with a Divar 700 Series digital video recorder. By routing a video stream to a Bosch video decoder, you can also present the video with ultimate clarity on an analog monitor.

Cost effective, simple installation

Three power options, PoE (Power-over-Ethernet), 24 VAC and 12 VDC are available. Using PoE makes installation easier and more cost-effective, as cameras do not require a local power source. To increase system reliability, the camera can be simultaneously connected to both PoE and 12 VDC/24 VAC supplies. Additionally, uninterruptible power supplies (UPS) can be used, which will allow continuous operation, even during a power failure.

For trouble free network cabling, the cameras support Auto-MDIX.

Dinion IP cameras have a service mode for easy installation using the control buttons and an analog video output on the camera as an alternative to configuration over IP. The service mode is simply activated by pressing a button on the camera. This routes the video to the analog output, bypassing the IP video output. The On-Screen Display (OSD) simplifies back focus adjustment and network configuration, minimizing installation and support costs. The Lens Wizard automatically detects the lens type and helps focus the lens at the maximum opening to maintain proper focus.

Easy Upgrade

Remotely upgrade the camera whenever new firmware becomes available. This ensures up-to-date products, thus protecting investment with little effort.

Access Security

Various security levels are available for accessing the network, the camera, and the data channels. As well as password protection with three levels, 802.1x authentication using a RADIUS is supported. To secure Web browser access use HTTPS with a SSL certificate stored in the camera. For total data protection, the video and audio communication channels can be independently AES encrypted with 128-bit keys by installing the optional Encryption Site License.

Typical applications

- Prisons and correctional facilities
- Traffic monitoring (air, land and sea)
- Hotels, bars and nightclubs
- · Commercial and government buildings
- · City surveillance and safety
- Border control

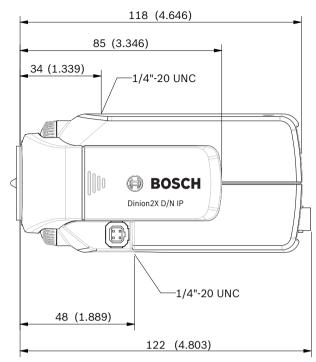
Certifications and Approvals

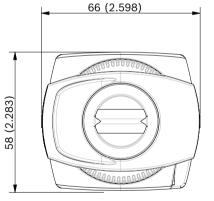
Electro Magnetic Compatibility

0	
Emission	EN55022 Class B EN61000-3-2 EN61000-3-3 FCC Part 15
Immunity	EN50130-4 (PoE, +12 VDC) EN55024 (24 VAC) EN50121-4
Safety	EN60950-1 UL60950-1 (2nd edition) CAN/CSA-C 22.2 No. 60950-1
Vibration	Camera with 500 g (1.1 lb) lens as per IEC60068-2-6 (5 m/s², operational)
Region	Certification
Europe	CE
USA	FCC + UL

Installation/Configuration Notes

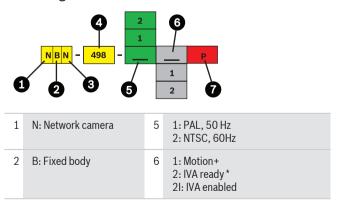
Dimensions





mm (in)

Ordering chart

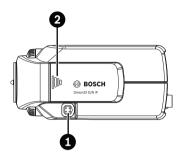


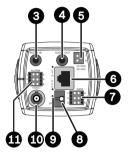
P: PoE

3	N: Day/Night	7
4	498:Dinion2X perform-	
	ance	

* No license included

Controls





1	Lens connector	7	Data (RS485/422/232)
2	Control buttons	8	MicroSD card slot
3	Audio in	9	Reset button
4	Audio out	1 0	BNC video output (service mode)
5	Power supply input	1 1	Alarm in, relay out
6	10/100 Base-T Fast Ethernet		

Parts Included

Quantity	Components
1	NBN-498 Series Dinion2x Day/Night IP Camera
1	Spare lens connector
1	Safety Instructions
1	Quick Install Guide
1	$\operatorname{Mini}\operatorname{DVD}\text{-}\operatorname{ROM}$ with manuals, software and tools
1	Power connector
1	Alarm I/O connector
1	Data connector

1 C/CS mount adapter

Notice

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Lens and microSD card are not included in a standard delivery.

Technical Specifications

Electrical

Model No.	Rated Voltage	Rated Frequency	
NBN-498-1xP	24 VAC ±10%	50 Hz	
	12 VDC ±10%		
	Power-over-Etherne	t	
NBN-498-2xP	24 VAC ±10%	60 Hz	
	12 VDC ±10%		
	Power-over-Etherne	t	
Current Consumption	550 mA 650 mA IV, 550 mA 650 mA IV, 200 mA 250 mA IV,	A (24 VAC)	
Power Consumption	6.6 W 7.8 W IVA (1 8.2 W 9.7 W IVA (2 9.6 W (PoE 48 VDC)	4 VAC)	
Sensor			
Туре	1/3-inch CCD, WDR,	dual shutter	
Active Pixels (PAL)	752 x 582		
Active Pixels (NTSC)	768 x 494	768 x 494	
Video			
Video compression	H.264 (ISO/IEC 144 JPEG	196-10); M-JPEG,	
Data rate	9.6 Kbps to 6 Mbps		
Resolution	Horizontal x vertical	Horizontal x vertical (PAL/NTSC ips)	
4CIF	704 x 576/480 (25	704 x 576/480 (25/30 ips)	
CIF	352 x 288/240 (25	/30 ips)	
Overall IP Delay	Min. 120 ms, Max. 2	240 ms	
GOP structure	I, IP, IBBP		
Frame rate (per stream)	1 to 25/30 (PAL/NT 1 to 25/30 (PAL/NT		

Video Out (service mode only)

Signal	Analog composite (NTSC or PAL), serv- ice only
Connector	BNC, 75 Ohm
Horizontal resolution	540 TVL
Video S/N	50 dB

Sensitivity (3200 K, scene reflectivity 89%, F1.2)

Full video	Usable pic-	Minimum Illumi-
(100 IRE)	ture (50 IRE)	nation (30 IRE)
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Color	2.4 lx	0.47 lx	0.15 lx
	(0.223 fc)	(0.044 fc)	(0.0139 fc)
Color + SensUp 10x	0.24 lx (0.0223 f c)	0.047 lx (0.00437 fc)	0.015 lx (0.00139 fc)
Monochrome	0.98 lx	0.188 lx	0.060 lx
	(0.091 fc)	(0.0174 fc)	(0.0056 fc)
Monochrome + SensUp 10x	0.098 lx (0.0091 f c)	0.019 lx (0.00176 fc)	0.0060 lx (0.000557 fc)

Day/NightColor, Mono, AutoModes6 preset programmable modesDynamic range120 dB (20-bit image processing)Signal-to-Noise Ratio> 50 dBDynamic engine2X-Dynamic, XF-Dynamic, SmartBLC+2X- DynamicSmartBLCOn (includes 2X-Dynamic) / OffAGCAGC On or Off (0 - 30 dB) selectableWhite BalanceATW (2500 to 10000K), ATWhold and manualShutterAuto (1/50 [1/60] to 1/10000) selecta- ble Auto (1/50 [1/60] to 1/10000) selecta- ble Auto (1/50 [1/60] to 1/50000) automatic flickerless, fixed selectableSensitivity upAdjustable from Off up to 10xAuto BlackAuto, On/off selectableOynamic Noise Reduc- tionSharpness enhancement level selectablePeak White InvertOn/OffVideo Motion AnalysisFour independent areas, fully programma- bleVideo Motion AnalysisFour independent areas, fully programma- bleSynchronizationInternal, Line Lock selectableLens MountSC (max lens protrusion 5 mm, 0.2 inch), Crmount compatible with supplied adapter		
InternationalInternationalDynamic range120 dB (20-bit image processing)Signal-to-Noise Ratio> 50 dBDynamic engine2X-Dynamic, XF-Dynamic, SmartBLC+2X- DynamicSmartBLCOn (includes 2X-Dynamic) / OffAGCAGC On or Off (0 - 30 dB) selectableWhite BalanceATW (2500 to 10000K), ATWhold and manualShutterAuto (1/50 [1/60] to 1/10000) selecta- ble Auto (1/50 [1/60] to 1/50000) automatic flickerless, fixed selectableSensitivity upAdjustable from Off up to 10xAuto BlackAuto, On/off selectableDynamic Noise Reduc- tionSharpness enhancement level selectablePeak White InvertOn/OffPrivacy MaskingFour independent areas, fully programma- bleVideo Motion AnalysisMotion+ or IVATest Pattern GeneratorColor bars 100%, Grayscale 11-step, Saw- tooth 2H, Checker board, Cross hatch, UV planeSynchronizationInternal, Line Lock selectableLens MountCS (max lens protrusion 5 mm, 0.2 inch), C-mount compatible with supplied adapter	Day/Night	Color, Mono, Auto
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Peak White Invert On/Off Privacy Masking Four independent areas, fully programmable Video Motion Analysis Motion + or IVA Test Pattern Generator Color bars 100%, Grayscale 11-step, Saw-tooth 2H, Checker board, Cross hatch, UV plane Synchronization Internal, Line Lock selectable Lens Mount CS (max lens protrusion 5 mm, 0.2 inch), C-mount compatible with supplied adapter		Auto, On/off selectable
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Test Pattern GeneratorColor bars 100%, Grayscale 11-step, Saw- tooth 2H, Checker board, Cross hatch, UV planeSynchronizationInternal, Line Lock selectableLens MountCS (max lens protrusion 5 mm, 0.2 inch), C-mount compatible with supplied adapter	Privacy Masking	
tooth 2H, Checker board, Cross hatch, UV planeSynchronizationInternal, Line Lock selectableLens MountCS (max lens protrusion 5 mm, 0.2 inch), C-mount compatible with supplied adapter	Video Motion Analysis	Motion+ or IVA
Lens Mount CS (max lens protrusion 5 mm, 0.2 inch), C-mount compatible with supplied adapter	Test Pattern Generator	tooth 2H, Checker board, Cross hatch, UV
C-mount compatible with supplied adapter	Synchronization	Internal, Line Lock selectable
	Lens Mount	C-mount compatible with supplied adapter

Lens Types	Manual, DC- and Video-Iris auto-detect with override DC-iris drive: max. 50 mA continuous Video-iris: 11.5 VDC ±0.5, max. 50 mA continuous
Controls	OSD with soft-key operation (multi-lingual)
Audio	
Standard G.711	300 Hz to 3.4 kHz at 8 kHz sampling rate
Signal-to-noise ratio	> 50 dB

Input/output

Audio	1 x mono line in, 1 x mono line out
 connector 	3.5 mm stereo jack
• signal line in	9 kohm typical, 5.5 Vpp max
 signal line out 	3.0 Vpp at 10 kOhm typical, 2.3 Vpp at 32 Ohm typical, 1.7 Vpp at 16 Ohm typical
Alarm	2 inputs
 connector 	Clamp (non-isolated closing contact)
 activation voltage 	+5 VDC to +40 VDC (+3.3 VDC with DC-coupled 22 kOhm pull- up resistor)
Relay	1 output
connector	Clamp
• voltage	30 VAC or +40 VDC Maximum 0.5 A continuous, 10VA
Data port	RS-232/422/485

Software Control

Unit Configuration	Via web browser or Configuration Manager
Flicker Control	50/60 Hz, selectable
Software update	Flash ROM, remote programmable

Network and Storage

Protocols	RTP, Telnet, UDP, TCP, IP, HTTP, HTTPS, FTP, DHCP, IGMP V2/V3, ICMP, ARP, SMTP, SNTP, SNMP, 802.1x, UPnP
Encryption	TLS 1.0, SSL, AES (optional)
Ethernet	STP, 10/100 Base-T, auto-sensing, half/ full duplex, RJ45
PoE supply	IEEE 802.3af compliant
Local Storage	Supports microSD cards (SDHC)

Mechanical

Dimensions (H x W x L)	58 x 66 x122 mm (2.28 x 2.6 x 4.8 inch) without lens	
Weight	542 g (1.195 lb) without lens	
Color	RAL 9007 Metallic Titanium	
Tripod Mount	Bottom (isolated) and top 1/4-inch 20 UNC	

Environmental

Operating Temperature*	-20°C to +50°C (-4°F to 122°F)
Operating Temperature (IVA)*	-20°C to +45°C (-4°F to 113°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Operating Humidity	20% to 93% RH
Storage Humidity	up to 98% RH

* for extended temperature range use HAC-IPCCC

Ordering Information

NBN-498-11P Dinion2X D/N IP Camera NBN-498-11P 1/3-inch Progressive scan, H.264, 2X DSP, WDR, PAL, 50 Hz, PoE, microSD slot

NBN-498-21P Dinion2X D/N IP Camera NBN-498-21P 1/3-inch Progressive scan, H.264, 2X DSP, WDR, NTSC, 60 Hz, PoE, microSD slot

NBN-498-12P Dinion2X D/N IP Camera NBN-498-12P 1/3-inch Progressive scan, H.264, 2X DSP, WDR, PAL, 50 Hz, PoE, microSD slot, IVA ready

NBN-498-22P Dinion2X D/N IP Camera NBN-498-22P 1/3-inch Progressive scan, H.264, 2X DSP, WDR, NTSC, 60 Hz, PoE, microSD slot, IVA ready

Accessories

EX12LED-3BD-8M Infrared Illuminator EX12LED-3BD-8M EX12LED IR Illuminator, 850 nm, 30 deg beam

EX12LED-3BD-8W Infrared Illuminator EX12LED-3BD-8W EX12LED, IR Illuminator, 850 nm, 60 deg beam

EX12LED-3BD-9M Infrared Illuminator EX12LED-3BD-9M EX12LED IR Illuminator, 940 nm, 30 deg beam

EX12LED-3BD-9W Infrared Illuminator EX12LED-3BD-9W EX12LED, IR Illuminator, 940 nm, 60 deg beam

LTC 3364/21 Varifocal Lens IR corrected 1/3-inch, 2.8 – 6 mm, DC-iris, CS-mount F1.4-200, 4-

pin

LTC 3664/40 Varifocal Lens IR corrected LTC 3664/40 Varifocal LENS VARIfocal Lens IR corrected LTC 3664/40 Varifocal Lens IR c

1/3-inch, 2.8 – 11 mm, DC-iris, CS-mount F1.4-360, 4pin

ted 1/3-inch, 7.5 – 50 mm, DC-iris, CS-mount F pin	-1.3-360, 4-
LTC 3764/20 Varifocal Lens IR correc- ted	LTC 3764/20
1/2-inch, 4 – 12 mm, DC-iris, C-mount F1.2	2-360, 4-pin
LTC 3774/30 Varifocal Lens IR correc- ted	LTC 3774/30
1/2-inch, 10 – 40 mm, DC-iris, C-mount F1	.4-360, 4-pin
UPA-2410-60 Power Supply 120 VAC, 60 Hz, 24 VAC, 10 VA Out	UPA-2410-60
UPA-2430-60 Power Supply 120 VAC, 60 Hz, 24 VAC, 30 VA Out	UPA-2430-60
UPA-2450-60 Power Supply, 120 V, 60 Hz 120 VAC, 60 Hz, 24 VAC, 50 VA Out	UPA-2450-60
UPA-2420-50 Power Supply 220 VAC, 50 Hz, 24 VAC, 20 VA Out	UPA-2420-50
UPA-2450-50 Power Supply, 220 V, 50 Hz 220 VAC, 50 Hz, 24 VAC, 50 VA Out For use with certain 24 VAC camera model	UPA-2450-50 s.
S1374 Adapter converts C mount lens to CS mount camer	S1374 a
HAC-IPCCC Camera Cooling Case For use with Dinion IP cameras in combina HSG and UHO Series housings equipped w tional blower	
Software Options MVC-FIVA4-CAM M IVA 4.x VCA software license for IP camera cense)	VC-FIVA4-CAM /dome (e-li-
MVC-FENC-AES BVIP AES 128 Bit En- cryption BVIP AES 128-bit encryption site license. T is required only once per installation. It en crypted communication between BVIP dev	ables en-

LTC 3674/20 Varifocal Lens IR correc-

LTC 3674/20

management stations.

Represented by:

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