

NDV-5704-AL Fixed dome 8MP HDR 3.2-10.5mm IR I/O

FLEXIDOME indoor 5100i IR



The camera is a versatile and professional surveillance camera for indoor monitoring. It delivers exceptional image quality, starlight performance and High Dynamic Range at resolution 4K ultra HD for highly detailed image for demanding security and surveillance network requirements.

Built-in Intelligent Video Analytics Pro (IVA Pro) enriches full situational awareness and triggers relevant alerts.

The cameras offer a 1/2.8" sensor and HDR technology at resolution 4K ultra HD with a built-in active infrared illuminator that provides high performance in extreme low-light environments. The modular structure design uses a click and rotate mechanism on mounting plate or base that requires no hardware to secure the camera to housing for fast installation, including compatibility with various mounting options.

Functions

H.265 high-efficiency video encoding

The camera is designed on the most efficient and powerful H.264 and H.265/HEVC encoding platform. The camera is capable of delivering high-quality and high-resolution video with very low network load. With a doubling of encoding efficiency, H.265 has become the new compression standard of choice for IP video surveillance systems.













- ▶ 4K ultra HD for highly detailed images
- ► Starlight camera technology with excellent lowlight performance
- ▶ IVA Pro brings highly reliable deep-learning based detection of persons and vehicles to scenes ranging from sterile zones to crowded and congested
- ► High Dynamic Range to see every detail in both bright and dark areas of the scene
- ► Built-in intelligent IR illuminator with up to 40 m (132 ft) viewing distance

Intelligent Video Analytics Pro (IVA Pro)

The camera comes with IVA Pro Buildings pre-installed and brings highly reliable deep-learning based detection and tracking of persons and vehicles to scenes ranging from sterile zones to crowded and congested. Being extremely resistant to false triggers caused by challenging environments with rain, wind (moving trees), snow, hail, and water reflections as well as shadows and bugs, it reliable detects, tracks, and classifies objects. A smart set of alarm and counter rules allows to alert you when predefined alarms are triggered, and to forensically search with high efficiently though recordings. Configuration effort is minimized and made easy by removing the need for calibration.

Optionally the camera can be licensed with IVA Pro Perimeter or IVA Pro Traffic to optimize the camera analytics for specific enterprise use-cases.

Two-way audio and built-in microphone

Two-way audio allows the operator to communicate with visitors or intruders via an external audio line input and output. Alternatively, there is an integrated microphone to capture crisp and clear audio. By using the integrated or external microphone, audio detection can be used to generate alarms to alert the security operator quicker and act more proactively. If required by local laws, the microphone can be locked via a secure license key.

DORI coverage

DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The maximum distance at which a camera/lens combination can meet these criteria is shown below:

8 MP camera with 3.2-10.5 mm lens*

DORI	DORI definition	Distance 10.5 mm / 3.2 mm	Horizontal width
Detect	25 px/m	62 m / 275 m	154 m
	(8 px/ft)	(203 ft / 902 ft)	(505 ft)
Observe	63 px/m	25 m / 109 m	61 m
	(19 px/ft)	(82 ft / 358 ft)	(200 ft)
Recognize	125 px/m	12 m / 55 m	31 m
	(38 px/ft)	(39 ft / 180 ft)	(102 ft)
Identify	250 px/m	6 m / 28 m	15 m
	(76 px/ft)	(20 ft / 92 ft)	(49 ft)

^{*}The numbers in this table do not reflect IVA distances. For IVA distances, refer to the lens calculator / Bosch IP video design tool.

Scene modes

Multiple configurable modes are provided with the best settings for a variety of applications. In one click fully optimized image settings can be selected to suit the conditions. Different scene modes can be selected for different situations such as sodium lighting, fast moving objects, or dark environments.

Resists rain, dust, and tampering with reliable operation across a wide temperature range

The camera is suitable for indoor usage. The camera can operate in a wide ambient temperature range between -20 °C to +50 °C (-4 °F to +122 °F). The robust design of the camera is rated to IP54 and IK10 standards, safeguarding the camera against rain and dust while also offering protection against vandalism and tampering.

Easy installation

The mechanical design follows the Bosch installation philosophy by using an installation mount plate and easy cable management.

Power can be supplied via Power-over-Ethernet. With this configuration, only a single cable connection is required to view, power, and control the camera. Using PoE makes installation easier and more cost effective, as cameras do not require a local power

For trouble-free network cabling, the camera supports Auto-MDIX which allows the use of straight or crossover cables. The AVF (Automatic Varifocal) feature makes it easy for installers to adjust zoom position without opening the camera. The automatic motorized zoom/focus adjustment with 1:1 pixel mapping ensures the camera is always accurately focused.

Data security

Special measures have been put in place to ensure the highest level of security for device access and data transport. The three-level password protection with security recommendations allows users to customize device access. Web browser access can be protected using HTTPS and firmware updates can also be protected with authenticated secure uploads. The cameras have built-in Secure Element (SE) hardware providing main Trusted Platform Module (TPM) functionality to ensure the highest levels of data security and privacy protection. Together with Public Key Infrastructure (PKI) support, superior protection from malicious attacks is guaranteed. With future firmware updates, it will also support RSA encryption key lengths of up to 4096 bits, ensuring data safety beyond 2030. 802.1x network authentication with EAP/TLS will also be added. The advanced certificate handling offers:

- · Bosch origin device certificate pre-installed
- Self-signed unique certificates automatically created when required
- · Client and server certificates for authentication
- · Client certificates for proof of authenticity
- Certificates with encrypted private keys

More flexibility in streaming capabilities

The camera has four independent encoder streams. Users can do the following:

- Configure each stream individually to change the video resolution and the frame rate
- Select the coding standard (H.264/H.265) for each stream
- Configure a set of eight encoder profiles for each stream

Edge recording

Insert a memory card into the card slot to store up to 2 TB of local alarm recording. Pre-alarm recording in RAM reduces recording bandwidth on the network, and extends the effective life of the memory card. It has advanced edge recording providing a reliable storage solution possible due to the combination of these functions:

- Industrial SD card support allows for extreme lifetime
- Health monitoring of industrial SD cards provide early service indications.

High Dynamic Range

The camera has High Dynamic Range. This is based on a multiple-exposure process that captures more details in the highlights and in the shadows even in the same scene. The result is that you can easily distinguish objects and features, for example, faces with bright backlight.

The actual dynamic range of the camera is measured using Opto-Electronic Conversion Function (OECF) analysis according to IEC 62676 Part 5. This method is used to provide standardized measurements, which can be used to compare different cameras.

Automatic image rotation

The integrated gyro/accelerometer sensor automatically corrects the image orientation in steps of 90° if the camera is mounted at right angles or upside down. The sensor image can also be rotated manually through steps of 90°.

To efficiently capture details in long hallways without loss of resolution, mount the camera at right angles. The image is displayed upright at full resolution on your monitor.

System Integration and ONVIF conformance

The camera conforms to the ONVIF Profile S, ONVIF Profile G, ONVIF Profile T, and ONVIF Profile M specifications. For H.265 configuration, the camera supports Media Service 2, which is part of ONVIF Profile T. Compliance with these standards guarantees interoperability between network video products regardless of manufacturer. Third-party integrators can easily access the internal feature set of the camera for integration into large projects. Visit the Bosch Integration Partner Program (IPP) website (ipp.boschsecurity.com) for more information.

Modular accessories

A full line of modular accessories is available, which allows a consistent design across different cameras and a wide range of installation possibilities. Available options include wall or pipe mount, a surveillance cabinet with power, and an in-ceiling mounting kit.

IR Illumination

The device offers integrated intelligent infrared (IR) capability, on top of adaptive power based on-the-scene content. The IR range covers a distance of up to 40 m (132 ft).

The IR coverage is always optimized for the scene in order to avoid over-exposure of objects that are close to the device.

Cloud-based services

The camera supports time-based or alarm-based JPEG posting to four different accounts. These accounts can address FTP servers or cloud-based storage. Video clips or JPEG images can also be exported to these accounts.

Alarms can be set up to trigger an e-mail or SMS notification so you are always aware of abnormal events.

Bosch Remote Portal

With the secure cloud infrastructure, Bosch Remote Portal, you can manage your connected Bosch devices. From the Bosch Remote Portal you can:

- Complete initial configuration of your connected Bosch devices (online or offline).
- · Update firmware for single or multiple devices.
- · Manage certificates.
- Monitor the health of your connected Bosch devices.

Project Assistant app

As the camera is equipped with a USB-C port for a wireless USB dongle (sold separately: NCA-WLAN-EU, NCA-WLAN-NA), the installer can easily perform the initial configuration wirelessly. Using a mobile device with the Bosch Project Assistant app, you can do initial set-up and lens zoom-focus to find the right scene. Simply connect the wireless USB dongle and go to the Bosch Project Assistant app, available for iOS, Windows, or Android.

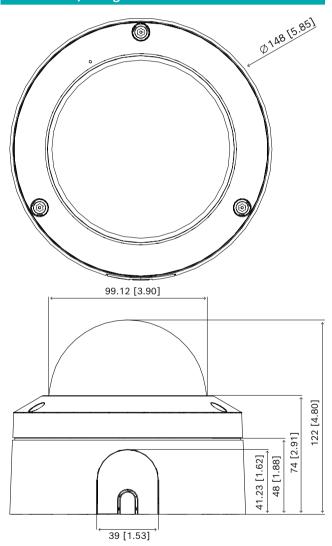
Regulatory information

Standard	Туре
Emission	EN 55032 (Class B) CFR 47 FCC part 15 (Class B) ICES-003 (Class B) VCCI CISPR 32 AS/NZS CISPR 32
Immunity	EN 50121-4 EN 50130-4
Environmental	EN 50130-5, Class II EN IEC 63000 RoHS EU, 2011/65/EU and 2015/863/EU WEEE EU, 2012/19/EU
Safety	EN 62368-1 IEC 62368-1 UL 62368-1
Image per- formance	IEC 62676-5
Impact protection	EN 62262 (IK10): 2002
Ingress protection	EN 60529 (IP54)
ONVIF conformance	EN 50132-5-2, EN 62676-2
IR lighting	IEC 62471
Marks	CE, FCC, UL, WEEE, RCM, VCCI, UKCA, China RoHS, BIS

Standard	Туре
Compliance	NDAA compliant

Region	Regulatory compliance/quality marks		
Great Britain	UKCA		
USA	UL-CAP	Cybersecurity Assurance Program	
Global	IEC_62443	Industrial Cyber Security Capability	
Europe	CE		

Installation/configuration notes



Dimensions in mm (inch)

Parts included

Quantity	Component
1	FLEXIDOME indoor 5100i IR - 8 MP camera
1	T-20 security Torx Allen key

Quantity	Component
1	8-pin terminal block
1	Adapter plate for cable conduit (Ø 3/4" / M25)
1	Adapter plate for cable conduit (Ø 1/2" / M20)
1	RJ45 guider
1	Mount plate
1	Safety information
1	Quick installation guide

Technical specifications

Electrical

Input voltage (DC)	48 VDC nominal
Power consumption PoE (W) (typical – maximum)	6.40 W - 8.90 W
PoE input	PoE IEEE 802.3af Type 1, Class 3

Platform

Sensor

Total sensor pixels	8 MP appr.
Sensor type	1/2.8 inch CMOS
Effective pixels (H x V px)	3864 x 2192

Sensitivity

Color (lx) (sensitivity measured according to IEC 62676 Part 5)	0.065 lx
Monochrome (lx) (sensitivity measured according to IEC 62676 Part 5)	0.020 lx
Minimum illumination with IR (lx) (sensitivity measured according to IEC 62676 Part 5)	0.0 lx

Dynamic range

Wide Dynamic Range (WDR) (dB)	120 dB
Measured according to IEC 62676 Part 5 (dB)	103 dB

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Video	Strea	mino
TIGCO	34164	5

Video compression	H.264 (ISO/IEC 14496-10); M- JPEG; H.265/HEVC	
Streaming	Multiple configurable streams in H.265; H.264 and M-JPEG; Config- urable framerate and bandwidth; Bosch Intelligent Streaming	
Camera processing latency	<120 ms (at 8MP30) (Camera-in- ternal latency only, achievable with settings excluding all image en- hancements)	
GOP structure	IP; IBP; IBBP	
Frame rate (fps)	1 fps – 30 fps	
Video signal-to-noise ratio (dB)	>55 dB	
Video resolution		
4K UHD	3840 × 2160	
Upright mode 4K UHD	2160 × 3840	
6MP	3264 × 1840	
Upright mode 6MP	1840 × 3264	
4MP	2688 × 1612	
Upright mode 4MP	1612 × 2688	
2.8MP (4:3)	1920 × 1440	
1080p HD	1920 × 1080	
1.3 MP	1536 × 864	
1.3 MP (5:4)	1280 × 1024	
HD 720p	1280 × 720	
SD 432p	768 × 432	
Video functions		
Day/night modes	Auto (adjustable switch points); Color; Monochrome	
Camera functionality	Mirror image; Rotation 90°; Rotation 180°; Flip image; Rotation 270° including upright mode; Backlight compensation (BLC); Sharpness enhancement; Intelligent defog; Pixel counter; Saturation; Brightness;	

	Video watermarking; Display stamping; Location; Electronic image stabilization (gyro-based)	
White balance (K)	2500 K – 10000 K	
White balance modes	Basic; Standard; Sodium vapor; Manual mode; Hold mode; 3 auto- matic modes	
Shutter modes	Automatic Electronic Shutter (AES); 1/25 min; 1/15,000 max; Default shutter	
Number of privacy masks	8	
Scene modes with scheduler	Multiple default modes	
Video content analysis		
Analysis type	Intelligent Video Analytics Pro Buildings	
Alarm triggers	Any object; Object in field; Line crossing; Enter / leave field; Loitering; Follow route; Counting; Occupancy; Condition change; Similarity search; Objects stopping or starting to move	
Object filters	Duration; Size; Aspect ratio; Direction; Color; Object classes	
Object classes	Available by default: Person, Vehicle Available with optional IVA Pro: Bi- cycle, Motorcycle, Truck, Bus	
Audio detection	Detection of audio to generate an alarm	
Supported analytics	IVA Pro Perimeter (license); IVA Pro Traffic (license)	
Night vision		
IR function	On; Off; Auto; Intelligent	
Built-in IR (m)	40 m	
Built-in IR (ft)	132 ft	
IR intensity	Manually adjustable; Automatic	
Wavelength (nm)	850 nm	
Optical		
Lens type	3.2 to 10.5 mm	

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Local storage encryption XTS-AES	Zoom/focus control	Motorized	Encryption	TLS 1.2; AES 256; AES 128; TLS
Inputs and outputs	Horizontal field of view	105° - 57°		1.3
Audio line in 0.6 Vrms max, 10 kOhm typical Audio line out 1.0 Vrms at 10 kOhm typical Short or DC 3.3 V activation Alarm input activation Short or DC 3.3 V activation Alarm input activation Short or DC 3.3 V activation Alarm input activation Shielded RJ45 Audio Alarm input activation Shielded RJ45 Audio Alarm input activation Shielded RJ45 Number of RJ45 connections 1 Audio Connectivity Number of RJ45 connections 1 Connectivity Number of USB ports 1 (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, solid separately) Network Storage Networks I (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, solid separately) Network Ethernet type 10/100BASE-T; Auto-sensing; Full half duplex Half duplex Storage Network Storage System integration Protocols / standards Protocols / St	Vertical field of view	31° - 18°	Local storage encryption	XTS-AES
Audio line out 1.0 Vrms at 10 kOhm typical Capacity Alarm input activation Short or DC 3.3 V activation Alarm output voltage 40 VDC, max. load 1 A Alarm output voltage 40 VDC, max. load 1 A Alarm outputs Audio Connectivity Number of RJ45 connections 1 Number of USB ports 1 (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, sold separately) Network Ethernet tine-out Compression and sampling rate G. 711 8 kHz; L16 16 kHz; AAC-LC 48kbps 16 kHz Audio output Line-out Compression and sampling rate G. 711 8 kHz; L16 16 kHz; AAC-LC 48kbps 16 kHz Audio otrpaning Full duplex; Half duplex Storage Internal storage S-s-pre-alarm-recording Memory card slot Memory card slot Memory card slot Memory card slot Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Recording mode Continuous (ring); Scheduled;	Inputs and outputs		Video authentication	MD5; SHA-1; SHA-256; Checksum
Alarm input activation Short or DC 3.3 V activation Alarm output voltage 40 VDC, max. load 1 A Ethernet Shielded RJ45 Audio Audio Audio Audio input Built-in microphone; Line-in; Miclevel input Audio input Line-out Connectivity Number of RJ45 connections 1 (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, sold separately) Network Ethernet type 10/100BASE-T; Auto-sensing; Full half duplex Minimum signal-to-noise ratio (dB) 50 dB Audio streaming Full duplex; Half duplex Storage Memory card slot Micro SDHC; Micro SDXC (a memory card of class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Recording mode Continuous (ring): Scheduled;	Audio line in	0.6 Vrms max, 10 kOhm typical	Firmware protection	Signed firmware, secure boot (available in FW 8.71.0069 onwards)
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Audio input Built-in microphone; Line-in; Miclevel input Line-out Compression and sampling rate G.711 8 kHz; L16 16 kHz; AAC-LC 8kbps 16 kHz Robbys 16 kHz; AAC-LC 48kbps 16 kHz Audio streaming Full duplex; Half duplex Storage Internal storage 5-s-pre-alarm-recording Memory card slot Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Paudio input Connectivity Number of USB ports 1 (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, sold separately) Network Ethernet type 10/100BASE-T; Auto-sensing; Full half duplex System integration Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP RTP/RTCP; IGMP v2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, Inik Coal address) NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 80.2 L1x, EAP/ TLS; DNS; DNSv6; DDNS GynDNS.org, selfNoST.de, no-ip.com); SMTP; iSCSI; UPAP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication Conformity ONVIF Profile S; ONVIF Profile G; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M	Alarm output voltage	40 VDC, max. load 1 A	Alarm outputs	1
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Audio streaming Full duplex; Half duplex Storage Internal storage 5-s-pre-alarm-recording Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Recording mode System integration Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CP; HTTP; HTTP Protocols / standards IPv4; IPv6; UDP; CICP; APP; DICP; APIPA (Auto-IP, link local address) NTP (SNTP); SNMP (V1, MiBIl); S02.1x, EAP/ TLS; DNS; DNS; DNS; DNS; DNS; DNS; DNS; DN		· · · · · · · · · · · · · · · · · · ·	Ethernet type	10/100BASE-T; Auto-sensing; Full / half duplex
Audio streaming Full duplex; Half duplex Protocols / standards IPv4; IPv6; UDP; TCP; HTTP; HTTP RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address) NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no- ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication Industrial SD cards Extreme lifetime and health monitor- ing support that provides early ser- vice indication (if supported by the SD card) Recording mode Continuous (ring); Scheduled;	Minimum signal-to-noise ratio (dB)	50 dB	System integration	
RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address) NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on the support that provides early service indication (if supported by the SD card) Recording mode RTP/RTCP; IGMP V2/V3; ICMP; ICMPv6; RTSP; FTP; ARP; DHCP; APIPA (Auto-IP, link local address) NTP (SNTP); SNMP (V1, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication on ip.com); SMTP; iSCSI; UP	Audio streaming	Full duplex; Half duplex	Protocols / standards	IPv4: IPv6: UDP: TCP: HTTP: HTTPS
Internal storage 5-s-pre-alarm-recording Memory card slot Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Recording mode 5-s-pre-alarm-recording APIPA (Auto-IP, link local address) NTP (SNTP); SNMP (V1, MIBII); SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M	Storage		, , , , , , , , , , , , , , , , , , , ,	RTP/RTCP; IGMP V2/V3; ICMP;
Memory card slot Micro SDHC; Micro SDXC (a memory card of Class 6 or higher is recommended for HD recording) Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Recording mode Micro SDXC SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no- ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP; SOAP; CHAP; Digest authentication ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M	Internal storage	5-s-pre-alarm-recording	APIPA (Auto-IP, link local addre NTP (SNTP); SNMP (V1, MIBII) SNMP (V3, MIBII); 802.1x, EAF TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no ip.com); SMTP; iSCSI; UPnP (SSDP); DiffServ (QoS); LLDP;	APIPA (Auto-IP, link local address);
Memory card capacity (GB) 32 GB for Micro SDHC; 2 TB for Micro SDXC Industrial SD cards Extreme lifetime and health monitoring support that provides early service indication (if supported by the SD card) Conformity Conformity ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M	Memory card slot	card of Class 6 or higher is recom-		SNMP (V3, MIBII); 802.1x, EAP/ TLS; DNS; DNSv6; DDNS (DynDNS.org, selfHOST.de, no-
ing support that provides early service indication (if supported by the SD card) Recording mode ONVIF Profile T; Auto-MDIX; ONVIF Profile M Continuous (ring); Scheduled;	Memory card capacity (GB)			
, chi	Industrial SD cards	ing support that provides early service indication (if supported by the	Conformity	ONVIF Profile T; Auto-MDIX; ONVIF
	Recording mode			

Mechanical

0550 1050 10500
355° / 85° / 350°
148 mm x 122 mm
5.83 in x 4.80 in
920 g
2.03 lb
White, Black
RAL 9003 Signal white, RAL 9017 Traffic black
Yes
Clear polycarbonate, clear with anti- scratch and anti-reflection coating
Polycarbonate, re-paintable
Surface-mounted (mount plate included); 4-inch square junction box, single and double gang box, 1/4-inch 20 UNC screw thread
3/4-inch NPT(M25) and 1/2 -inch NPT (M20) conduit side entry

Environmental

Operating temperature (°C)	-20 °C – 50 °C for continuous operation
Operating temperature (°F)	-4 °F – 122 °F for continuous operation
Cold start temperature (°C)	-20 °C
Cold start temperature (°F)	-4°F
Storage temperature (°C)	-30 °C – 70 °C
Storage temperature (°F)	-22 °F – 158 °F
Operating relative humidity, non- condensing (%)	5% - 93%
Operating relative humidity, condensing (%)	5% - 100%
Storage relative humidity (%)	0% - 98%
Impact protection	IK10
IP rating	IP54

Usage	Indoor
Sustainability	PVC-free
Country of origin	Thailand

Ordering information

NDV-5704-AL Fixed dome 8MP HDR 3.2-10.5mm IR I/O

Professional IP fixed dome camera for indoor 30 fps surveillance with H.264/H.265 and IVA Pro Buildings, 8 MP, IR, IP54, IK10 NDAA compliant Order number **NDV-5704-AL | F.01U.394.455**

Accessories

NDA-5070-IC In-ceiling mount kit

In-ceiling mount kit for FLEXIDOME indoor 5100i, FLEXIDOME indoor 5100i IR, FLEXIDOME outdoor 5100i, and FLEXIDOME outdoor 5100i IR

Order number NDA-5070-IC | F.01U.401.739

NDA-5070-PLEN In-ceiling plenum kit, 148mm

Plenum-rated in-ceiling mount kit for FLEXIDOME indoor 5100i, FLEXIDOME indoor 5100i IR, FLEXIDOME outdoor 5100i, and FLEXIDOME outdoor 5100i IR Order number NDA-5070-PLEN | F.01U.399.151

NDA-5070-LWMT L shape wall mount for FLEXIDOME

L-shaped wall mount for FLEXIDOME indoor 5100i, FLEXIDOME indoor 5100i IR, FLEXIDOME outdoor 5100i, FLEXIDOME outdoor 5100i IR, and FLEXIDOME IP 3000i IR

Order number NDA-5070-LWMT | F.01U.399.152

NDA-5080-PIP Pendant interface plate, 148mm

Pendant interface plate for FLEXIDOME indoor 5100i, FLEXIDOME indoor 5100i IR, and FLEXIDOME panoramic 5100i IR Order number NDA-5080-PIP | F.01U.389.607

NDA-5070-PC Paintable cover, FLEXIDOME 5100i, 4pcs

Paintable cover (4 pieces) for FLEXIDOME 5100i and FLEXIDOME 5100i IR

Order number NDA-5070-PC | F.01U.399.153

NDA-5070-CBLI Bubble, clear for FLEXIDOME 5100i IR

Clear replacement bubble for FLEXIDOME indoor 5100i IR and FLEXIDOME outdoor 5100i IR

Order number NDA-5070-CBLI | F.01U.399.127

NDA-5070-TBLI Bubble, tinted for FLEXIDOME 5100i IR

Tinted bubble for FLEXIDOME indoor 5100i IR and FLEXIDOME outdoor 5100i IR

Order number NDA-5070-TBLI | F.01U.399.149

NDA-U-CBB Conduit back box, 148mm

Outdoor conduit back box, 148mm, IP66 rated Order number NDA-U-CBB | F.01U.394.006

NDA-U-CMT Corner mount adapter

Universal corner mount, white Order number NDA-U-CMT | F.01U.324.946

NDA-U-PMAS Pole mount adapter small

Pole mount adapter small

Universal pole mount adapter, white; small. Order number **NDA-U-PMAS | F.01U.324.943**

NDA-U-PMAL Pole mount adapter large

Universal pole mount adapter, white; large Order number NDA-U-PMAL | F.01U.324.944

NDA-U-PSMB Pendant wall/ceiling mount SMB

Surface mount box (SMB) for wall mount or pipe mount.
Order number NDA-U-PSMB | F.01U.324.942

NDA-U-WMT Pendant wall mount

Universal wall mount for dome cameras, white Order number NDA-U-WMT | F.01U.324.939

NDA-U-WMTG Pendant wall mount, gang box

Universal wall mount, compatible with gang box installation for fixed dome cameras only, white Order number **NDA-U-WMTG | F.01U.358.358**

NDA-U-PMT Pendant pipe mount, 12" (31cm)

Universal pipe mount for dome cameras, 31 cm, white Order number NDA-U-PMT | F.01U.324.940

NDA-U-PMTE Pendant pipe extension, 20" (50cm)

Extension for universal pipe mount, 50 cm, white Order number **NDA-U-PMTE** | **F.01U.324.941**

NDA-U-PMTG Pendant pipe mount, gang box

Universal pipe mount, compatible with gang box installation for fixed dome cameras only, white Order number NDA-U-PMTG | F.01U.358.359

NDA-U-PMTS Pendant pipe mount, 4" (11 cm)

Universal pendant pipe mount for dome cameras, 11 cm (4"), white

Order number NDA-U-PMTS | F.01U.385.046

NPD-3001-WAP Portable installation tool

Bosch camera portable and wireless installation tool Order number **NPD-3001-WAP | F.01U.353.329**

NPD-5001-POE Midspan, 15W, single port, AC in

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 1-port

Weight: 200 g (0.44 lb)

Order number NPD-5001-POE | F.01U.305.288

NPD-5004-POE Midspan, 4 port x 15W, AC in

Power-over-Ethernet midspan injector for use with PoE enabled cameras; 15.4 W, 4-ports Weight: 620 g (1.4 lb)

Order number NPD-5004-POE | F.01U.305.289

MSD-064G IP SECURITY MICROSD CARD 64GB

64 GB industrial microSD card with health status monitoring

Order number MSD-064G | F.01U.394.680

MSD-128G IP SECURITY MICROSD CARD 128GB

128 GB industrial microSD card with health status monitoring

Order number MSD-128G | F.01U.394.681

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MSD-256G IP SECURITY MICROSD CARD 256GB

256 GB industrial microSD card with health status monitoring

Order number MSD-256G | F.01U.394.682

MNT-ICP-FDC Drop ceiling suppport kit for FLEXIDOME

Suspension ceiling support kit for FLEXIDOME IP 2000/4000/5000/5100i/7000 (except RD series) and panoramic 5000/7000 series cameras

Order number MNT-ICP-FDC | F.01U.316.129

NCA-WLAN-EU Wireless installation dongle EU

Wireless installation dongle for wireless commissioning Order number NCA-WLAN-EU | F.01U.405.793

NCA-WLAN-NA Wireless installation dongle NA

Wireless installation dongle for wireless commissioning for North America

Order number NCA-WLAN-NA | F.01U.405.794

Software Options

MVC-IVA-PER IVA Pro Perimeter

Video analytics software for mission-critical perimeter protection.

Order number MVC-IVA-PER | F.01U.409.537

MVC-IVA-TRA IVA Pro Traffic

Video analytics software based on deep neural network technology for traffic monitoring and Automatic Incident Detection.

Order number MVC-IVA-TRA | F.01U.409.538

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