

NDV-5702-A-GOV Fixed dome 2MP HDR 3.2-10.5mm GOV

FLEXIDOME indoor 5100i



- ▶ 1080p60 for highly detailed images
- ▶ Starlight camera technology with excellent low-light 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

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 HD 1080p 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 camera offers a 1/2.8" sensor and HDR technology at HD 1080p resolution 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.

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 reliably 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 efficiency through 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

Two-way audio allows the operator to communicate with visitors or intruders via an external audio line input and output. By using the external microphone, audio detection can be used to generate alarms to alert the security operator quicker and act more proactively.

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:

PRELIMINARY

Video resolution

1080p HD	1920 × 1080
Upright mode 1080p	1080 × 1920
1.3 MP (16:9)	1536 × 864
Upright mode 1.3 MP (16:9)	864 × 1536
720p	1280 × 720
Upright mode 720p	720 × 1280
SD	768 × 432

Video functions

Day/night modes	Auto (adjustable switch points); Color; Monochrome
Camera functionality	Mirror image; Rotation 90°; Rotation 180°; 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)	2,500 K – 10,000 K
White balance modes	Basic; Standard; Sodium vapor; Manual mode; Hold mode; 3 automatic modes
Shutter modes	Automatic Electronic Shutter (AES); 1/25 min; 1/15,000 max; Default shutter
Number of privacy masks	8
Scene modes	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: Bicycle, Motorcycle, Truck, Bus
Audio detection	Detection of audio to generate an alarm
Supported analytics	IVA Pro Perimeter (license); IVA Pro Traffic (license)

Optical

Lens type	3.2 to 10.5 mm
F-stop	1.6
Iris control	P-iris
IR corrected	Yes
Day / Night	Switchable IR-cut filter
Zoom/focus control	Motorized
Horizontal field of view	105° - 31°
Vertical field of view	57° - 18°

Inputs and outputs

Audio line in	0.6 Vrms max, 10 kOhm typical
Audio line out	1.0 Vrms at 10 kOhm typical
Ethernet	Shielded RJ45

Audio

Audio input	Line-in; Mic-level input
Audio output	Line-out
Compression and sampling rate	G.711 8 kHz; L16 16 kHz; AAC-LC 80kbps 16 kHz; AAC-LC 48kbps 16 kHz
Minimum signal-to-noise ratio (dB)	50 dB
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)

PRELIMINARY

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; Alarm; Event

Data security

Crypto coprocessor (TPM)	AES/CBC 256 bit; RSA 4096 bit
PKI	X.509 certificates
End-to-end encryption	Full end-to-end with supported VMS
Encryption	TLS 1.2; AES 256; AES 128; TLS 1.3
Local storage encryption	XTS-AES
Video authentication	MD5; SHA-1; SHA-256; Checksum
Firmware protection	Signed firmware, secure boot

Capacity

Number of RJ45 connections	1
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Connectivity

Number of USB ports	1 (USB 2.0 Type C, for use with wireless USB dongle for setup and commissioning, sold separately)
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Network

Ethernet type	10/100BASE-T; Auto-sensing; Full / half duplex
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System integration

Protocols / standards	IPv4; IPv6; UDP; TCP; HTTP; HTTPS; 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; IGMP; RTSPS; SRTP; SCEP
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Conformity	ONVIF Profile S; ONVIF Profile G; ONVIF Profile T; Auto-MDIX; ONVIF Profile M
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Mechanical

3-axis adjustment (pan / tilt / rotation)	355° / 85° / 350°
Dimensions (Ø x H) (mm)	148 mm x 122 mm
Dimensions (Ø x H) (in)	5.83 in x 4.80 in
Weight (g)	920 g
Weight (lb)	2.03 lb
Color	White, Black
Color in RAL	RAL 9003 Signal white, RAL 9017 Traffic black
Gyroscope	Yes
Bubble material	Clear polycarbonate, clear with anti-scratch coating
Material	Polycarbonate, re-paintable
Mounting type	Surface-mounted (mount plate included); 4-inch square junction box, single and double gang box, 1/4-inch 20 UNC screw thread
Conduit	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%

PRELIMINARY

Impact protection	IK10
IP rating	IP54
Usage	Indoor
Sustainability	PVC-free
Country of origin	Taiwan

Ordering information

NDV-5702-A-GOV Fixed dome 2MP HDR 3.2-10.5mm GOV

Professional IP fixed dome camera for indoor 60 fps surveillance with H.264/H.265 and IVA Pro Buildings, 2 MP, IP54, IK10

NDAA compliant

TAA compliant

Order number **NDV-5702-A-GOV**

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**

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**

NDA-5070-LWMT L shape wall mount for FLEXIDOME 5100i

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**

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**

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

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

Order number **NDA-5070-PC**

NDA-5070-CBL Bubble, clear for FLEXIDOME 5100i

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

Order number **NDA-5070-CBL**

NDA-5070-TBL Bubble, tinted for FLEXIDOME 5100i

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

Order number **NDA-5070-TBL**

NDA-U-CBB Conduit back box, 148mm

Outdoor conduit back box, 148mm, IP66 rated

Order number **NDA-U-CBB**

NDA-U-CMT Corner mount adapter

Universal corner mount, white

Order number **NDA-U-CMT**

NDA-U-PMAS Pole mount adapter small

Pole mount adapter small

Universal pole mount adapter, white; small.

Order number **NDA-U-PMAS**

NDA-U-PMAL Pole mount adapter large

Universal pole mount adapter, white; large

Order number **NDA-U-PMAL**

NDA-U-PSMB Pendant wall/ceiling mount SMB

Surface mount box (SMB) for wall mount or pipe mount.

Order number **NDA-U-PSMB**

NDA-U-WMT Pendant wall mount

Universal wall mount for dome cameras, white

Order number **NDA-U-WMT**

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**

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

Universal pipe mount for dome cameras, 31 cm, white

Order number **NDA-U-PMT**

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

Extension for universal pipe mount, 50 cm, white

Order number **NDA-U-PMTE**

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**

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**

NPD-3001-WAP Portable installation tool

Bosch camera portable and wireless installation tool

Order number **NPD-3001-WAP**

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**

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**

MSD-064G IP SECURITY MICROSD CARD 64GB

64 GB industrial microSD card with health status monitoring

Order number **MSD-064G**

PRELIMINARY

MSD-128G IP SECURITY MICROSD CARD 128GB

128 GB industrial microSD card with health status monitoring

Order number **MSD-128G**

MSD-256G IP SECURITY MICROSD CARD 256GB

256 GB industrial microSD card with health status monitoring

Order number **MSD-256G**

MNT-ICP-FDC Drop ceiling support 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**

NCA-WLAN-EU Wireless installation dongle EU

Wireless installation dongle for wireless commissioning

Order number **NCA-WLAN-EU**

NCA-WLAN-NA Wireless installation dongle NA

Wireless installation dongle for wireless commissioning for North America

Order number **NCA-WLAN-NA**

Software Options**MVC-IVA-PER IVA Pro Perimeter**

Video analytics software for mission-critical perimeter security.

Order number **MVC-IVA-PER**

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**

PRELIMINARY

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