

NDP-7602-Z30 PTZ 2MP 30x starlight clear pendant AUTODOME inteox 7000i



Certifications and approvals

For a full list of all related certifications/standards, refer to the Product Tests Report, available on the online catalog, on the Documents tab of the product page for your device. If the document is unavailable on the product page, contact your sales representative.

Electromagnetic compatibility (EMC)	FCC Part 15, ICES-003 EN 55024:2010 + A1:2015 EN 55032:2015/AC:2016
Product Safety	Complies with UL, CE, CSA, EN, and IEC standards including: UL 62368-1 EN 62368-1 EN 60950-1 CAN/CSA-C22.2 No. 62368-1-14 IEC 62368-1 Ed.2 IEC 60950-1 Ed.2 IEC 60950-22 Ed.2
Marks	UL, CE, WEEE, RCM, EAC, VCCI, FCC, RoHS



- Open platform that allows third-party apps from the Application store from Security & Safety Things
- Starlight technology with excellent low-light performance and High dynamic range of 120 dB to see detail in difficult light conditions
- Flexible streaming capabilities powering three independent streams
- Built-in Intelligent Video Analytics alert operators in case of unusual scene activity
- Exceptional reliability with 3-year warranty (including on moving parts)

Regulatory compliance/quality marks		
CE	Declaration of Conformity (DoC) - AUTODOME IP starlight 7000i	
ıded		
Component		
AUTODOME ir	nteox 7000i pendant camera	
Safety instruc	tions	
Quick Installation Guide		
specificati	ons	
1/2.	8 in. CMOS sensor	
ture 1944 x 1212 (2.35 MP) xels)		
Lens 30x motorized Zoom 4.3 mm to 129 mm F1.6 to F4.7		
OV) 2.3°	to 64.7°	
	Ided Component AUTODOME in Safety instruc Quick Installat specificati 1/2. e 194 s) 30x 4.3 F1.6	

Focus	Automatic with manual override
Iris	Automatic with manual override
Digital Zoom	12x
Day/Night switch	Automatic IR cut filter

Video performance - Sensitivity

(3100K, reflectivity 89%, 1/30, F1.6, 30 IRE)

Color	0.0077 lx
Monochrome	0.0008 lx

Video performance - Dynamic range

High dynamic range	120 dB WDR
Measured according to IEC 62676 Part 5	100 dB WDR

Common Product Platform CPP13

DORI			Distance to obj	ect
	WID	E 1X	TELE 30X	Scene width
Detection 25 px/m (8 px/ft)	61 n (200	-	1913 m (6276 ft)	77 m (252 t)
Observation 63 px/m (19 px/ft)	24 n (79		765 m (2510 ft)	31 m (100 ft)
Recognition 125 px/m (38 px/ft)	12 m (39 ft)		383 m (1255 ft)	15 m (50 ft)
Identification 250 px/m (76 px/ft)	6 m (20 ft)		191 m (628 ft)	8 m (25 ft)
		specific ar	oosure, either full-s rea	screen or defined
Gain control		AGC, Fixed, Region per pre-position		
Aperture Correction		Horizontal and vertical		
Electronic Shutter Speed (AES)		1/1 sec to 1/30,000 sec (22 steps)		
Signal-to-Noise Ratio (SNR)		>55 dB		
Backlight compensation (BLC)		On / Off / Intelligent Auto Exposure (IAE)		

White balance		2000 K to 10,000 K
		ATW, AWB Hold, Extended ATW, Manual,
		Sodium Lamp Auto, Sodium Lamp, indoor,
		outdoor
Day/Night		Monochrome, Color, Auto
Defog mode feature		Improves visibility when viewing foggy or
		other low-contrast scenes.
Noise Reduction		Intelligent Dynamic Noise Reduction
• .:		
Sectors		9, 12, or 16 user-selectable, independent
	Sectors	, each with 20 characters per Title
Privacy Masks	32 indiv	idually configurable Privacy Masks; maximum
		e-position; programmable with 3, 4 or 5
		select your own color from the color palette.
		e "Auto" option, the camera selects the most nt of the three colors in the background scene
		attern color.
	•	e "Mosaic" option, the movements behind a
	Privacy	Mask will remain visible.
Virtual Masks	24 indiv	idually configurable Virtual Masks to hide
		the scene (background motion such as
	moving	trees, pulsating lights, busy roads, etc.)
Pre-positions	256 Pre	-positions, each with 20 characters per Title
Guard Tours	Custom Recorded Tours - two (2), total duration 30 minutes:	
		· ition tour - one (1), consisting of up to 256
		consecutively, and one (1) customized with
		i6 user-defined scenes
Supported	English, Czech, Dutch, French, German, Italian,	
Languages		Portuguese, Russian, Spanish, Japanese,
	Chinese	
Alarm control	Rules-based logic supports basic and complex pre-	
		user-specified commands
	In its mo	ost basic form, a "rule" could define which
	input(s) should activate which output(s).	
Camera status	Integrated sensors monitor operational status such as	
monitoring	internal temperature, humidity level, incoming	
	voltage	level, vibration, and shock events.
Diagnostics	Various	status conditions are tracked in the internal
-		tic log. Critical fault conditions will also be
	displaye	ed on screen.
Video conten	t analys	sis

Intelligent Video Analytics

Analysis type

30	2470	2060
25	2410	1810
15	1690	1260
8	1090	820
4	670	500
2	420	310
1	260	190

Actual bitrate may vary depending on the scene, picture settings, and encoder profile settings.

Memory Card Slot	User-supplied full SD card (maximum 2 TB) Note: For this camera, Bosch does not recommend the use of microSD cards or of microSD to SD adapters.		
Recording		nuous recording of video and audio, alarm/ s/schedule recording	
Pan Range		360° cont.	
Tilt Angle		18° above horizon	
Pre-position Speed		Pan: 400°/s Tilt: 300°/s	
Pan/Tilt Modes			
• Turbo Mode (Manual Control)		Pan: 0.1°/s - 400°/s Tilt: 0.1°/s - 300°/s	
Normal Mode		0.1°/s-120°/s	
Pre-position Accuracy		± 0.1° typ.	
Input voltage	24 VAC 60 W (using the midspan accessory NPD-6001B, required to power the heater) 30 W (IEEE 802.3at, class 4 standard, when used without powering the heater)		
Power Consumption (typical), with heaters	51.0 W / 54.0 VA		
Power Consumption (typical)	19.2 W / 33.6 VA (heaters off / without heater connected in 24 V power supply box)		
Current consumption, 24 VAC	~2.25A		
Current consumption, 60 W	~0.91A		

Configurations	Off / Global VCA / Profiles 1 - 16				
Calibration	Auto	Automatic self-calibrating when height is set			
Alarm rules (combinable)	Leav Remo deteo	Any object, Object in field, Crossing line, Entering field, Leaving field, Loitering, Following route, Idle object, Removed object, Counter, Occupancy, Crowd detection, Condition change, Similarity search, Tampering			
Object filters	Obje	Duration, Size, Aspect ratio v/h, Speed, Direction, Object classes (Upright persons, Bikes, Cars, Trucks), Color			
Standard/Video compression		H.265, H.264 (ISO/IEC 14496), M-JPEG, JPEG			
Streaming	3 fully configurable streams, with the option to activate or deactivate VCA overlays on each stream				
Protocols	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), DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, noip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox [™] , CHAP, digest authentication				
Ethernet		100BASE-TX, auto-sensing, full duplex/auto negotiation, Auto-MDI-X			
Encryption		TLS1.0/1.2, AES128, AES256			
Ethernet connecto	or	RJ45			
GOP structure		IP, IBP, IBBP			
Overall IP Delay		30 fps: 233 ms (typical)			
Interoperability	ONVIF Profile S, ONVIF Profile G, ONVIF Profile T				
Resolution (H x V)	Pixels			
1080p HD		1920 x 1080			
720p HD		1280 x 720			
432p SD		768 x 432			
288p SD		512 x 288			
		lows shows the average typical , in kbits/s, for different frame rates:			

FPS	H.264	H.265
-----	-------	-------

Redundant configuration	Connect a 30 W or a 60 W midspan ¹ and a separate 24 VAC power source. If either power source fails, the camera switches automatically to the other power source.		
Surge suppression	Built-in surge suppression for power, data, and etwork interfaces (Refer to the A&E Specifications or details.)		
Power, Network	RJ45 100Base-T		
Power, Camera	24VAC, 50/60Hz		
Alarm Inputs (7)	2 supervised, 5 non-supervised		
Alarm Outputs (4)	1 dry contact relay, 3 open collector/transistor outputs Programmable for "normally open" or "normally closed" 32 VDC @ 150 mA maximum		
Audio	1 x mono line in, 1 x mono line out Signal line in: 20 kOhm typical, 0.707 Vrms Signal line out: 0.707 Vrms at 16 Ohm, typical		
Ingress Protection Rating/Standard	IP66, NEMA 4X ³		
Operating temperatur (with heater wired)	 -40 to +55 °C (-40 to +131 °F) -10 to +55 °C (+14 to +131 °F) (without heater wired) Maximum temperature: 74 °C (165 °F) in accordance with NEMA TS 2-2003 (R2008) 		
Storage temperature	-40 to +60 °C (-40 to +140 °F)		
Operating Humidity	0% to 100% RH, condensing		
Vibration	IEC 60068-2-6 NEMA TS2 Section 2.2.8		
Shock	IEC 60068-2-27 NEMA TS2 Section 2.2.9		
Power Service Transients	NEMA TS2 Section 2.2.7.2		
Power Interruption	NEMA TS2 Section 2.2.10		

Represented by:

Europe, Middle East, Africa: Bosch Security Systems B.V. P.O. Box 80002 5600 JB Eindhoven, The Netherlands Phone: + 31 40 2577 284 emea.securitysystems@bosch.com emea.boschsecurity.com

Germany: Bosch Sicherheitssysteme GmbH Robert-Bosch-Ring 5 85630 Grasbrunn Germany www.boschsecurity.com

Salt Mist Spray (Corrosion Test)	IEC 60068-2-52
External Mechanical Impact	IEC 60068-2-75: IK10 (only models ending in "- K")
	 3. NEMA 4X for: -Access to Hazardous parts -Ingress of solid foreign objects (falling dirt, circulating dust, settling dust) -Ingress of water (dripping and light splashing, hose down and splashing)

-Corrosive agents

Meets requirements for NEMA 4X certification (only models ending in "-K"). Meets requirements for NEMA 4X, except impact test (only pendant models, non-IK10).

Dimensions 224 mm (8.8 in.) x 299.4 mm (11.8 in.) Weight 3.2 kg (7 lb) **Bubble Size** 153.1 mm diameter (6.03 in.) Construction Material, Cast aluminum Housing Construction Material, Acrylic Bubble Standard Color White (RAL 9003) Standard Finish Powder coated, sand finish

Ordering information

NDP-7602-Z30 PTZ 2MP 30x starlight clear pendant PTZ dome camera, 2MP, 30x, starlight imaging, H.265, IVA, open camera platform Outdoor pendant mount Order number NDP-7602-Z30 | F.01U.381.159 F.01U.386.558

Services

North America:

Bosch Security Systems, LLC 130 Perinton Parkway Fairport, New York, 14450, USA Phone: +1 800 289 0096

Fax: +1 585 223 9180 onlinehelp@us.bosch.com

www.boschsecurity.us

EWE-AD7IIP-IW 12mths full wrty ext AD 7x00i Series 12 months warranty extension Order number **EWE-AD7IIP-IW | F.01U.382.507**

Asia-Pacific:

Robert Bosch (SEA) Pte Ltd, Security Systems 11 Bishan Street 21 Singapore 573943 Phone: +65 6571 2808 Fax: +65 6571 2809 apr.securitysystems@bosch.com www.boschsecurity.asia