

NDP-5512-Z30C PTZ 2MP HDR 30x clear in-ceiling

AUTODOME IP starlight 5000i



- ▶ Starlight camera technology with excellent low-light performance
- ▶ 120dB dynamic range lets you capture details in overexposed situations with confidence
- ▶ Intelligent streaming, IDNR and H.265 reduce bit rate by up to 80%
- ▶ Built-in Essential Video Analytics to trigger relevant alerts and quickly retrieve data
- ▶ High resolution bubble to ensure maximum effective resolution output
- ▶ Simple installation with flexible mounting options (in-ceiling or pendant mounting)

Certifications and approvals

HD standards

- Complies with the SMPTE 274M-2008 Standard in:
 - Resolution: 1920x1080
 - Scan: Progressive
 - Color representation: complies with ITU-R BT.709
 - Aspect ratio: 16:9
 - Frame rate: 25 and 30 frames/s
- Complies with the 296M-2001 Standard in:
 - Resolution: 1280x720
 - Scan: Progressive
 - Color representation: complies with ITU-R BT.709
 - Aspect ratio: 16:9
 - Frame rate: 25 and 30 frames/s

Marking	Applicable Standard
cULus	<ul style="list-style-type: none"> • UL60950-1/-22 (ed 2) (Includes CSA 22.2 No. 60950-1/-22)

FCC Part 15 (USA)	<ul style="list-style-type: none"> • 47CFR Part 15 • ICES-003 (Canada)
CE (Europe)	<p>Electromagnetic Compatibility (EMC) Directive</p> <ul style="list-style-type: none"> • EN55032:2012/AC:2013 • EN 50130-4:2011/A1:2014 • EN 61000-3-2:2014 • EN 61000-3-3:2013 <p>Product Safety: Low Voltage Directive (IECEE CB scheme certificate and report are required)</p> <ul style="list-style-type: none"> • EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 (with national differences) • IEC 60950-1/-22 (ed 1)
Other labels / markings	<ul style="list-style-type: none"> • RCM, EAC, WEEE, China RoHS, BIS

EAC = NDP-5512-Z30, NDP-5512-Z30C

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.

Region	Regulatory compliance/quality marks	
Europe	CE	Declaration of Conformity (DoC) - AUTODOME IP starlight 5000i,-iR
USA	UL	AUTODOME IP starlight 5000i

Parts included

Quantity	Component
1	AUTODOME IP starlight 5000i in-ceiling camera
1	Mounting template
1	Screwdriver, T10 Torx
4	MAC address labels
1	Quick Installation Guide
1	Safety instructions

Technical specifications

Imager	1/2.8" progressive scan CMOS
Effective Picture Elements	1945 x 1097 (2.13 MP)
Lens	30x zoom 4.5 mm - 135 mm (F1.6 - F4.4)
Optical Zoom Field of View (FOV)	2.4° - 60.9°
Focus	Automatic with manual override
Iris	Automatic with manual override
Digital Zoom	16x

Video performance - Sensitivity

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

Color	0.0186 lux
Mono	0.004 lux
Gain control	AGC, Fixed
Aperture Correction	Horizontal and vertical

Electronic Shutter Speed (AES)	1/1 sec to 1/10000 sec (22 steps)
Signal-to-Noise Ratio (SNR)	>55 dB
Day/Night switch	Automatic IR cut filter
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
Day/Night	Monochrome, Color, Auto
Defog mode feature	Improves visibility when viewing foggy or other low-contrast scenes.

Dynamic range

High dynamic range	120 dB WDR
Measured according to IEC 62676 Part 5	107 dB WDR

Video content analysis

Analysis type	Essential Video Analytics
Configurations	Silent VCA / Profile1 - 16
Alarm rules (combinable)	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	Duration Size Aspect ratio v/h Speed Direction Color

Video content analysis	
	Object classes (Upright persons, Bikes, Cars, Trucks)
Calibration	Automatic self-calibrating when height is set
Mechanical	
Pan/Tilt Modes	Normal: 0.1°/s - 120°/s Turbo: Pan: 0.1°/s - 300°/s; Tilt: 0.1°/s - 200°/s
Pre-position Speed	Pan: 300°/s Tilt: 200°/s
Pan Range	360° continuous
Tilt Angle	-90° to 0° (Auto-flip 180°)
Pre-position Accuracy	± 0.1° typ.
Pre-positions	256
Tours	Two (2) types of tours: <ul style="list-style-type: none"> Recorded tours: two (2), maximum total duration 15 minutes (depending on the amount of commands sent during recording) Pre-position tour: one (1), consisting of up to 256 scenes consecutively, and one (1), customized up to 64 scenes
Electrical	
Input voltage	24 VAC and PoE+
Power consumption	14 W (heater off) / 24 W (heater on)
Network	
Video compression	H.265 H.264 M-JPEG
Streaming	Four (4) streams: Two (2) configurable streams in H.264 or H.265 One (1) I-frames-only stream based on first stream One (1) M-JPEG Stream
Frame rate	60fps at all resolutions
IP delay (typical)	60 fps: 200 ms
Resolution (H x V)	
1080p Full HD (16:9)	1920 x 1080

Resolution (H x V)		
720p HD (16:9)	1280 x 720	
1.3MP (5:4)	1280 x 1024 cropped	
D1 4:3 (cropped) (4:3)	704 x 576	
640x480 (4:3)	640x480 cropped	
432p SD	768 x 432	
288p SD	512 x 288	
Bitrate	The average typical optimized bitrate in kbits/second for various frame rates is shown in the following table:	
Video compression	H.265	
IPS	1080p	720p
60	1649	1249
30	1413	1096
15	1157	902
10	1075	841
5	746	597
2	407	343
Ethernet	10/100BASE-T	
Encryption	TLS 1.0, SSL, DES, 3DES, AES	
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), SNMP (V1, V3, MIB-II), 802.1x, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP), DiffServ (QoS), LLDP, SOAP, Dropbox™, CHAP, digest authentication	
Interoperability	ONVIF Profile S, ONVIF Profile G, ONVIF Profile T, GB/T 28181	
Local Storage		
Memory card slot	Support a memory card with a maximum of 32 GB (microSDHC) / 2 TB (microSDXC) (user-supplied). (An SD card of Class 6 or higher is recommended for HD recording.)	

Miscellaneous

Sector/Titling	16 independent sectors with 20 characters per title
Privacy Masks	32 individually configurable privacy masks
Privacy Masks pattern	Black, White , Gray, Auto (average background color)
Supported Languages	English, German, Spanish, French, Italian, Dutch, Polish, Portuguese, Russian, Japanese, Chinese (simplified)

Audio

Compression	G.711, 8kHz sampling rate L16, 16kHz sampling rate AAC, 16kHz sampling rate
Interface	1/1 Channel In/Out

User Connections

Power	RJ45 10/100 Base-T PoE+ (IEEE 802.3at, class 4 standard) 21-30 VAC, 50/60 Hz
Alarm Inputs	2
Alarm Outputs	1 relay output 5 VDC, 150 mA max.
Audio	1x mono line in, 1x mono line out
• Signal line in	94 kOhm typical, 1 Vrms max.
• Signal line out	1 kOhm typical, 1 Vrms max.

Environmental (in-ceiling model)

Operating temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Humidity	Up to 90% RH, non-condensing
Storage temperature	-40 °C to +60 °C (-40 °F to +140 °F)

Construction (in-ceiling model)

Dimensions (DIA x H)	198 mm x 176.6 mm (7.8 in x 6.95 in)
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Weight	2.1 kg (4.63 lb)
Construction material	Housing: SPCC Trim ring: PC/ABS Bubble: Polycarbonate
Standard color	White (RAL 9003)

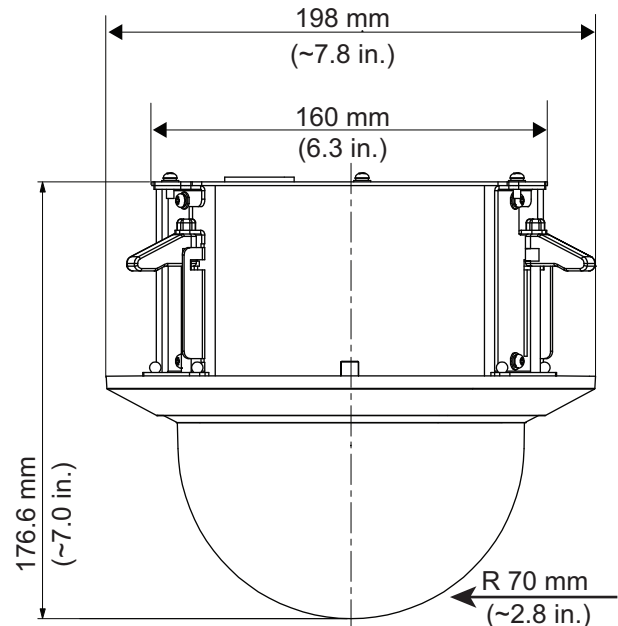
Dimensional Drawings

Fig. 1: In-ceiling model

Ordering information**NDP-5512-Z30C PTZ 2MP HDR 30x clear in-ceiling**

In-ceiling IP PTZ dome camera; 1080p60; 30X optical, 4x4 digital zoom; 120dB HDR; starlight imaging; IAE; EVA; PoE; Intelligent Streaming; clear, high-resolution, coated bubble. Dual power options.

Order number **NDP-5512-Z30C | F.01U.345.123**

Services**EWE-AD5HD-IW 12mths wrty ext AUTODOME IP 5000 HD**

12 months warranty extension without moving parts, wear parts are excluded

Order number **EWE-AD5HD-IW | F.01U.346.303**