CITY SCAN
TECH



Sentinel Series

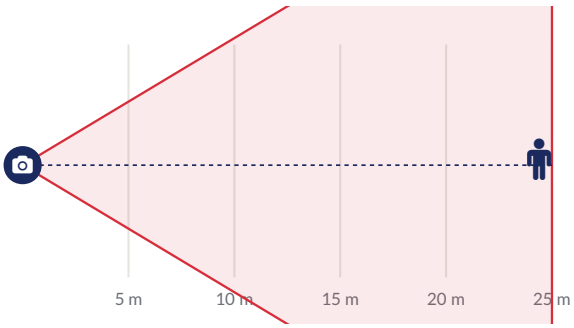
CS-SD5M2.8

5 MP AI Active-Deterrence Dome Camera

Wide-angle active-deterrence AI dome with red / blue strobe, two-way audio, custom voice alerts and the full deep-learning analytics suite.

COVERAGE

2.8 MM · 110° HFOV · 25 M IR



AI HIGHLIGHTS

- Active deterrence · strobe
- Face detection
- Pedestrian & vehicle
- Heat map & crowd density

5MP 5 MP Resolution	AI Analytics	Active Deterrence	Red / Blue Strobe
Two-Way Audio	Human & Vehicle	PoE Powered	IP67 Weatherproof

KEY FEATURES

- 1/2.7” progressive CMOS, 5 MP
- 2880 × 1620 max resolution
- 2.8 mm wide-angle lens, F1.0
- Red / blue strobe active deterrence
- Two-way audio with custom voice alerts
- Edge AI: face, line crossing, intrusion, heat map

IDEAL FOR

- Retail stores
- Offices
- Villas
- Warehouses
- Entrances
- Parking areas

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— SECTION 01

Technical Specifications

REFERENCE
CS-SD5M2.8
5 MP · AI

01 Imaging

Image Sensor	1/2.7" Progressive CMOS
Effective Pixels	5 MP · 2880 (H) × 1620 (V)
Min. Illumination	0.004 lux @ F1.0 (AGC ON) · 0 lux IR on
Wide Dynamic Range	DWDR
Day / Night	Full Colour · Day & Night · Smart Illumination
Noise Reduction	3D DNR
White Balance	Auto / Manual
Shutter	1/5 – 1/20,000 s
Defog	Supported

02 Lens

Lens Type	Fixed (M12)
Focal Length	2.8 mm
Aperture	F1.0
Field of View	H 110° · V 58° · D 132°
Min. Object Distance	2 m

03 Illumination

IR LEDs	1
IR Range	Up to 25 m
Warm-Light LEDs	2
Warm-Light Range	Up to 20 m
Red / Blue Strobe	2 (1 red & 1 blue) · strobe
Default Illumination	Warm light · switchable to infrared

09 Environmental

Operating Conditions	−35 °C to +60 °C · RH < 90% non-condensing

04 Video

Compression	H.265 / H.264
Main Stream	2880 × 1620 @ 25 fps
Sub Stream	704 × 480 @ 25 fps
Bitrate	256 Kbps – 8 Mbps
Bitrate Control	CBR / VBR
Motion Detection	Off / On (8 levels)

05 Audio & Smart

Audio	Built-in microphone & speaker · custom voice
Edge Storage	MicroSD up to 256 GB
AI Analytics	Face Detection · Pedestrian & Vehicle · Perimeter Intrusion · Line Crossing · Object Detection · Crossing Counting · Heat Map · Crowd Density · Active Deterrence · Region Entrance / Exiting

06 Network

Ethernet	RJ45 (10 / 100 BASE-T)
Protocols	TCP/IP · HTTP · HTTPS · DHCP · DNS · DDNS · RTP · RTSP · SMTP · NTP
Compatibility	ONVIF Profile S / G / T / M
IP Version	IPv6
Security	Complex password · Auth. user / password
Web Viewer	Plug-in free / IE, Edge, Chrome, Firefox, Safari

07 Electrical

Power Supply	DC 12 V (max 5.8 W) / PoE 48 V (max 7.1 W)
Power Consumption	DC 12 V max 5.8 W · PoE max 7.1 W

08 Mechanical

Dimensions	100 × 100 × 90 mm
Weight	425 g
Body Material	Metal
Finish	RAL 9003 — Signal White
Ingress Protection	IP67

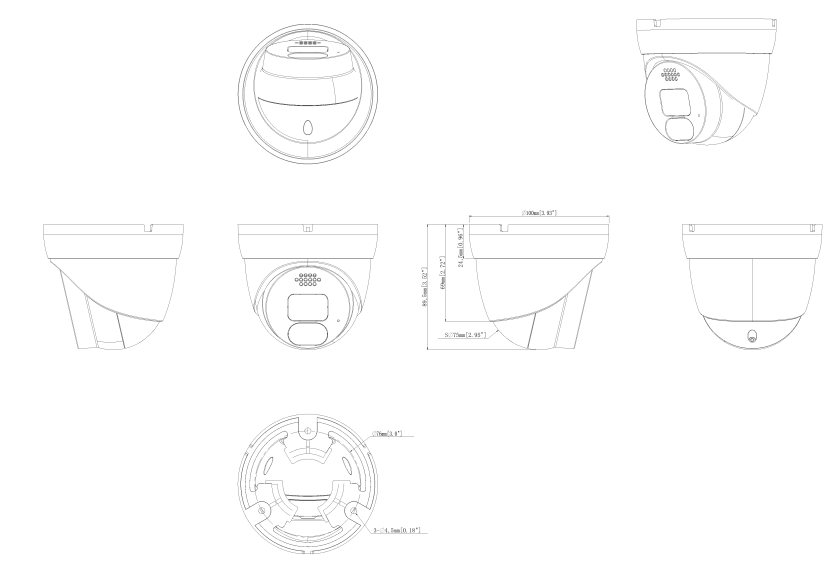
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— SECTION 02

Dimensions, Build & Ordering

DRAWING
ALL UNITS MM
TOL ±0.5

FIG 01 · DIMENSIONAL DRAWING



In the Box

- Dome camera unit
- Self-adhesive mounting template
- Wall plug & screw kit
- Waterproof RJ-45 connector
- Quick-start guide
- Warranty card

Ordering Information

SKU / MODEL CODE
CS-SD5M2.8

Sentinel · 5 MP AI Active-Deterrence Dome, 2.8 mm, PoE, IP67

REGULATORY & CERTIFICATIONS

CE · FCC · ROHS · ONVIF

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