CITY SCAN
TECH



Sentinel Series

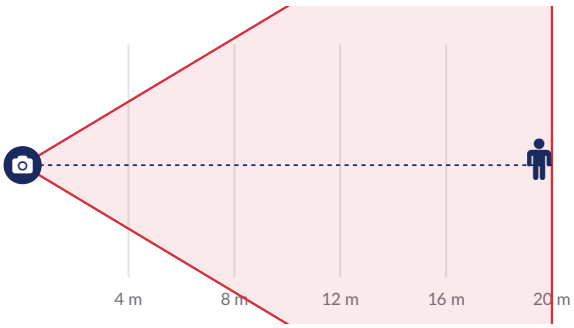
CS-SD5M2.8-E

5 MP AI Active-Deterrence Dome Camera

Wide-angle active-deterrence AI dome with red / blue lights, dual-light full-colour night vision, built-in microphone & speaker and custom voice alerts.

COVERAGE

2.8 MM · 110° HFOV · 20 M IR



AI HIGHLIGHTS

- Active deterrence · red / blue lights
- Face detection
- Pedestrian & vehicle
- Heat map & crowd density

5MP 5 MP Resolution	AI Analytics	Active Deterrence	Dual Light · IR + Warm
Microphone & Speaker	Human & Vehicle	PoE Powered	IP67 Weatherproof

KEY FEATURES

- 1/2.7” progressive CMOS, 5 MP
- 2.8 mm lens, F1.0 · 0.002 lux colour
- Dual light: 20 m IR / 20 m warm light
- Red / blue lights with custom voice alerts
- Built-in microphone & speaker
- Edge AI: face, intrusion, line crossing, LPR, heat map

IDEAL FOR

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

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— SECTION 01

Technical Specifications

REFERENCE
CS-SD5M2.8-E
5 MP · AI

01 Imaging

Image Sensor	1/2.7" Progressive CMOS
Effective Pixels	5 MP · 2880 (H) × 1620 (V)
Min. Illumination	Colour 0.002 lux @ F1.0 (AGC ON) · B/W 0 lux @ IR on
Image Setting	Full Colour / Day & Night / Smart Illumination
Wide Dynamic Range	WDR
Noise Reduction	3D DNR
White Balance	Auto / Manual
Shutter	1/5 – 1/20,000 s

04 Video

Compression	H.265 / H.264
Main Stream	@ 30 fps: 5MP (2880×1620) · 4MP (2560×1440) · 3MP (2304×1296) · 1080P (1920×1080) · 720P (1280×720)
Sub Stream	@ 30 fps: 720P (1280×720) · VGA (640×480) · QVGA (320×240)
Mobile Stream	@ 30 fps: VGA (640×480) · QVGA (320×240)
Bitrate	256 Kbps – 8 Mbps
Bitrate Control	CBR / VBR
Motion Detection	Off / On (8 levels)

07 Electrical

Power Supply	DC 12 V / PoE (IEEE 802.3af)
Power Consumption	DC 12 V max 6.3 W · PoE (48 V) max 7.6 W

08 Mechanical

Dimensions	Ø 115 × 92.6 mm (per drawing)
Body Material	Metal
Ingress Protection	IP67

09 Environmental

Operating Conditions	−35 °C to +60 °C · ≤ 90% RH

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 Illumination	10 LEDs · up to 20 m
Warm Light	6 LEDs · up to 20 m
Red / Blue Lights	2 (1 red & 1 blue)
Default Illumination	Warm light · switchable to infrared

05 Audio & Smart

Audio	Built-in microphone & speaker
Custom Voice	Yes
Alarm	N/A
Edge Storage	MicroSD slot, up to 256 GB
Hardware Reset	Yes
AI Analytics	Face Detection · Pedestrian & Vehicle · Perimeter Intrusion · Line Crossing · Object Detection · Crossing Counting · Heat Map · Crowd Density · Queue Length · License Plate · Rare Sound · Intrusion · Region Entrance · Region Exiting

06 Network

Ethernet	RJ45 (10/100BASE-T)
IP Version	IPv6
Protocols	TCP/IP · HTTP · HTTPS · DHCP · DNS · DDNS · RTP/RTSP · SMTP · NTP · UPnP · SNMP · FTP
Compatibility	ONVIF Profile S / G / T / M
Security	IP address filter · Complex password · Authenticated username & password
Web Viewer	IE 10 / 11 · Safari 12.1+ · Firefox 52+ · Chrome 57+ · Edge 79+

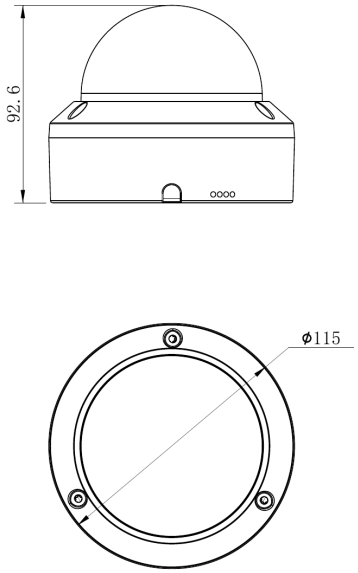
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— SECTION 02

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-E

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

REGULATORY & CERTIFICATIONS

CE · FCC · ROHS · ONVIF

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