CITY SCAN
TECH



Clarity Series

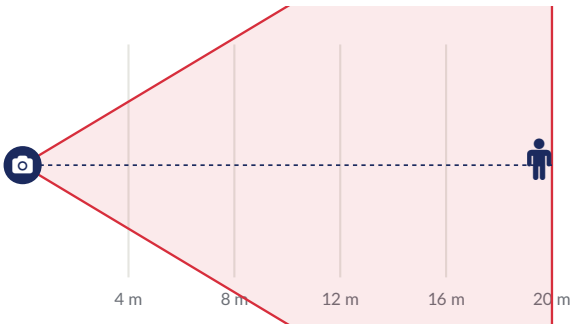
CS-CD5M2.8

5 MP AI Compact Dome Network Camera

Low-profile 5 MP AI compact dome with a 2.8 mm wide-angle lens, up to 20 m IR, built-in microphone and single-cable PoE power in an IP66 housing.

COVERAGE

2.8 MM · 110° HFOV · 20 M IR



AI HIGHLIGHTS

- Face detection
- Pedestrian & vehicle
- Line crossing & intrusion
- Heat map & crowd density

5MP 5 MP Resolution	AI Analytics	110° Wide Angle	20 m IR Night Vision
License Plate Detection	Built-in Microphone	PoE Powered	IP66 Weatherproof

KEY FEATURES

- 1/2.7” progressive CMOS, 5 MP
- 2880 × 1620 max resolution
- 2.8 mm fixed lens, F1.6 · 110° HFOV
- Up to 20 m IR · 0.004 lux colour
- Triple-stream H.265 / H.264, up to 8 Mbps
- 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-CD5M2.8
5 MP · AI

01 Imaging

Image Sensor	1/2.7" Progressive CMOS
Effective Pixels	5 MP · 2880 (H) × 1620 (V)
Min. Illumination	Colour 0.004 lux @ F1.6 (AGC ON) · B/W 0 lux @ IR on
Day / Night	IR-cut filter with auto switch (Day / Night / Schedule / Image Mode)
Wide Dynamic Range	WDR
Noise Reduction	3D DNR
Backlight Compensation	Off / On (5 zones)
Gain Control	Auto
White Balance	Auto / Manual
Shutter	1/5 – 1/20,000 s
Privacy Masking	Off / On (4 zones, rectangle)
Camera Title	On / Off

02 Lens

Lens Type	Fixed (M12)
Focal Length	2.8 mm
Aperture	F1.6
Field of View	H 110° · V 58° · D 133°
Min. Object Distance	1.8 m

03 Illumination

IR Range	Up to 20 m

07 Electrical

Power Supply	PoE (IEEE 802.3af)
Power Consumption	IR off 2 – 3 W · IR on 3 – 4 W

08 Mechanical

Dimensions	Ø 115.3 × 64.3 mm (per drawing)
Weight	276 g
Body Material	Metal & plastics
Ingress Protection	IP66

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
Streaming	Triple-stream (Main / Sub / Mobile) · Unicast / Multicast
Motion Detection	Off / On (8 levels)

05 Audio & Smart

Audio	Built-in microphone
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)
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 Browser	IE 10 / 11 · Safari 12.1+ · Firefox 52+ · Chrome 57+ · Edge 79+

09 Environmental

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

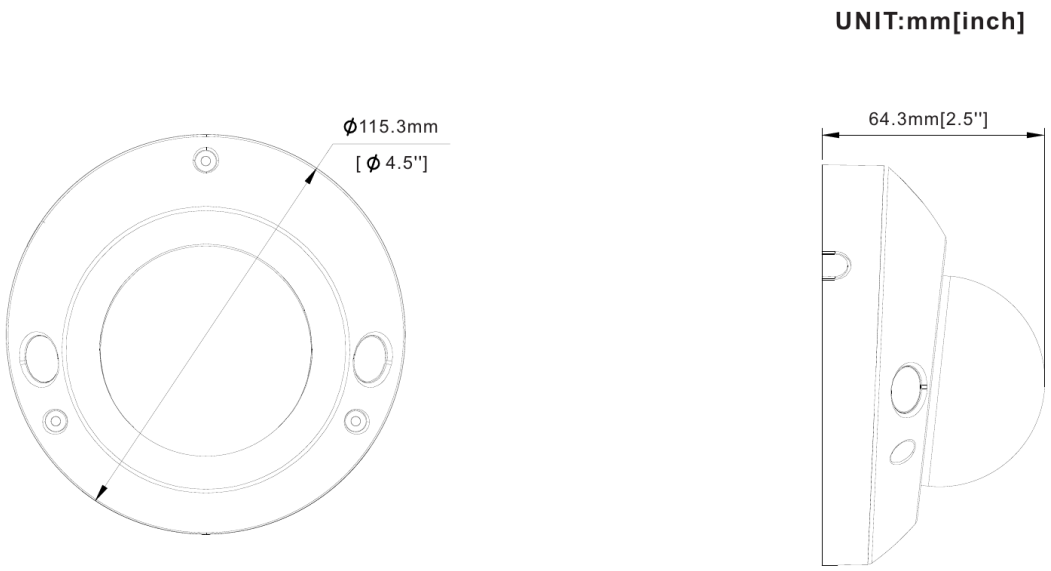
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— SECTION 02

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-CD5M2.8

Clarity · 5 MP AI Compact Dome, 2.8 mm fixed lens, PoE, IP66

REGULATORY & CERTIFICATIONS

CE · FCC · ROHS · ONVIF

ADDRESS
Safety Vision UK · South Bank, Chelford Road, Siddington, Macclesfield, SK11 9LF

WEB
safetyvision.uk

EMAIL
info@safetyvision.uk

PHONE
+44 7926 689141

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