

# 6MP AI Dome PTZ IP PoE Camera IP66 2.8mm Lens with 3 x Digital Zoom, Dual-Light + Red and Blue Deterrent Lights with 2 Way Audio

## 50MM-CD004



**Matchmaster**  
*For the Best*

The CD004 is a 6MP HD AI Dome PTZ camera, designed for both indoor and outdoor security applications. With advanced AI detection for human tracking, face and vehicle detection, plus a 2.8mm lens, 3x digital zoom, and full image controls, it delivers sharp, flexible monitoring. Rated IP66 for all-weather use, it offers 30–40m of IR night vision and 20–30m of warm light for clear, colour images. Red and blue deterrent lights provide added protection, making the CD004 ideal for reliable 24/7 home and business security.

### Features and Benefits

- » Featuring a 2.8mm lens with an impressive 0° ~ 355° angle of pan plus 5° ~ 90° tilt range
- » Built-in microphone, 2-way audio, and red & blue flashlights enhance situational awareness with sound detection, live communication, and triggered alerts.
- » Supports Face detection, human tracking & vehicle detection, line crossing, area entry/leaving detection, area intrusion detection
- » 1/2.8" CMOS sensor with 6MP resolution at 25fps delivers sharp, detailed video for precise monitoring and evidence capture.
- » Compact design for discrete installations while providing optimal security
- » Supports PoE power supply and MicroSD edge storage up to 256GB, simplifies installation and ensures local recording even if the network goes down



# 6MP AI Dome PTZ IP PoE Camera IP66 2.8mm Lens with 3 x Digital Zoom, Dual-Light + Red and Blue Deterrent Lights with 2 Way Audio

## 50MM-CD004



**Matchmaster**  
*For the Best*

<b>Camera</b>	
<b>Image Sensor</b>	1/2.8" Sony IMX335 CMOS
<b>Soc Chip</b>	Sigmastar SSC377D
<b>Effective Pixels</b>	3072(H) 2048 (V)
<b>Exposure Shutter</b>	AUTO/Manual: 1/10s ~ 1/8000s, Max Shutter speed adjustable
<b>Day/Night</b>	Auto/Active/passive/schedule/Day/Night, switch threshold, sensitivity, anti-flicker(Auto/50Hz/60Hz)
<b>Image Adjust</b>	Brightness, Saturation, Sharpness, Contrast, Denoise (0-100%) adjustable
<b>White Balance</b>	AWB/MWB
<b>WDR</b>	Yes
<b>Light Mode</b>	Smart(dual-light) / IR / White light, adjustable
<b>Light Control</b>	Auto/Manual, Brightness level (0-100%) adjustable
<b>DNR</b>	2D/3D DNR
<b>Encode</b>	
<b>Video Standard</b>	H.264/H.265/MJPEG
<b>Video Resolution</b>	Main Stream: 25fps@6MP(3072x2048)(default),30fps@5MP(2592x1944)/4MP(2560x1440)/3MP(2304x1296)/1080P/720P Sub Stream: 10fps@720P,30fps@D1(704x576)(default)/(720x480)/VGA(640x480)/QVGA(640x360)
<b>Video Bitrates</b>	Main stream: 64kbps~8Mbps Sub stream: 64kbps-2048kbps VBR/CBR, quality(1-9), GOP(1-128)
<b>Image Snapshot</b>	Sub Stream(SD) snapshot
<b>Image Rotation</b>	0 / 90 / 180 / 270 degree adjustable
<b>Border Crop</b>	X crop, Y crop
<b>Image Mirror</b>	horizon / vertical / horizon&vertical adjustable
<b>OSD Overlay</b>	Font size(1-4), position, Time, Title, AM/PM, Color, User OSD, Alarm OSD
<b>Privacy Mask</b>	4 areas
<b>Region of Interest</b>	ROI: Each stream support 8 areas
<b>Audio Standard</b>	G.711-u/G.711-a/AAC/PCM, AEC
<b>Built-in Mic</b>	Yes
<b>Built-in Speaker</b>	Yes, two-way audio
<b>Led</b>	
<b>IR Led</b>	6pcs IR Led (Twin wick)
<b>Warm Light</b>	6pcs white-light Led (Twin wick)
<b>Distance</b>	IR: 30-40 M, Warm light: 20-30M

<b>Lens</b>	
<b>Focal length</b>	2.8mm F1.6 Fixed Lens (Digital zoom 3x)
<b>IRIS</b>	F1.6
<b>Language</b>	English, Japanese, Korean, German, Polish, Italian, Turkish, Ukraine, Russian, etc.
<b>Smart Detection</b>	
<b>Motion Detection</b>	Yes
<b>Digital IO Alarm</b>	No (used as blue&red alarm)
<b>Human Vehicle Detection</b>	Yes, (2-20 meters)
<b>Cross Line Detection</b>	Yes, 4 lines
<b>Perimeter protection</b>	Yes, 4 areas
<b>Face Detection</b>	Yes, (1-5 meters)
<b>Target Detection Type</b>	Human Shape, vehicle, non-motor vehicle, Pet, Face(12px-1000px)
<b>Trigger Action Linkage</b>	Snapshot, Record, White LED Flash, Voice siren, Micro-SD, Email, FTP, NAS storage (NFS)
<b>Simultaneous Detection</b>	Maximum 16 targets simultaneous detection
<b>Storage Type</b>	Schedule/Trigger: Micro-SD(512G), Email, FTP, NAS (NFS)
<b>Reset Button</b>	Yes
<b>PTZ</b>	
<b>Pan/Tilt Range</b>	Pan: 0° ~ 355°; Tilt: -5° ~ 90°
<b>Zoom</b>	3X digital zoom
<b>Preset Point</b>	32
<b>Control Speed</b>	Pan: 0.5° ~30° /s; Tilt: 0.5° ~30° /s
<b>A-B Scanning</b>	Support
<b>Auto Cruising</b>	Support 2 groups patrol, Max. 16 presets in group
<b>Power on/Idle Action</b>	Preset/Scan/Cruise
<b>Power-off Recovery</b>	Support
<b>Smart Tracking</b>	Human Detection Tracking together with patrol
<b>Network Services</b>	
<b>Protocol</b>	HTTP(s)/RTSP/FTP/SMTP/DHCP/NTP/DST/RTP/RTMP/P2P/Hik/IPV4/IPV6/NFS/DDNS
<b>IP Address Filtering</b>	Yes (Allow list, Deny list)
<b>P2P Mobile APP</b>	Android, iOS

6MP AI Dome PTZ IP PoE Camera IP66 2.8mm  
Lens with 3 x Digital Zoom, Dual-Light + Red  
and Blue Deterrent Lights with 2 Way Audio

**50MM-CD004**



Web Access	IE, Firefox, Chrome, Edge, Safari, etc. (Windows/Linux/Mac/Chromebook/ Tablet/Mobile phone)
PC Tool	Windows, Mac
ONVIF	23.12 compatible (profile S G T M)
General	
Network Port	1-RJ45, 100Mbps, POE(IEEE802.3af)
Power Supply	12 VDC 3 10%
Power Consumption	< 10 W
Operating Temp.	-20°C~(+60)°C, 10%-90%RH