

8MP Mini Turret Camera

Datasheet



NDA



TrueCCTV TR-IP8MT28-W

The TrueCCTV TR-IP8MT28-W 8MP Mini Turret Camera delivers ultra-clear 4K surveillance in a compact, discreet form factor, making it ideal for both residential and commercial applications. Equipped with a 1/2.7" CMOS sensor, it captures sharp 3840×2160 resolution video at 20fps through a 2.8mm F1.6 fixed lens, providing wide-angle coverage with excellent detail. Advanced motion analytics—including human, vehicle, and face detection—enhance situational awareness by intelligently identifying events and reducing false alarms.

Designed for around-the-clock monitoring, the camera features a dual-light system with IR and warm LEDs, offering clear visibility up to 30 meters even in low-light environments. Its IP67-rated waterproof housing ensures reliable outdoor performance, while built-in PoE, lightning protection, and an internal microphone add convenience and durability. With support for H.265/H.264 dual-streaming, remote viewing via mobile and PC, and compatibility with RTSP and Onvif 23.12, this mini turret camera offers a robust and efficient surveillance solution.

Key Features

- 1/2.7" CMOS sensor
- 4K resolution 3840 x 2160P
- Face Detection, Human & Vehicle Detection, Line Crossing, Area Entry/Leaving Detection, Area Intrusion Detection
- Low illumination 0.01Lux
- Day/Night (ICR), AWB, 2D/3D-DNR, IR-CUT
- Motion Detection, Privacy Mask, Flip
- RTSP and Onvif 23.12 Compatible
- H.265/ H.264 Dual-stream Media Server
- Easy-to-use P2P Cloud Service
- Multi web browser, PC Client, Mobile App, Remote access
- RJ45 100Mbps Network Port, IEEE802.3af PoE
- Lightning Protection 4000V
- Strong Water-proof Housing, IP67 Rating
- 2pcs IR & Warm Dual Lights, Light Distance: 20-30M (Default with IR Type)
- 2.8mm F1.6 Fixed Lens
- Internal Microphone



Camera	
Image Sensor	1/2.7" 8MP GC8613 CMOS
SoC Chip	Sigmastar SSC378DE
Effective Pixels	3840(H)×2160 (V)
Exposure Shutter	AUTO/Manual: 1/10s ~ 1/8000s, Max Shutter speed adjustable
Day/Night	Auto(Active/passive/schedule)/Day/Night, switch threshold, sensitivity, anti-flicker(Auto/50Hz/60Hz)
Image Adjust	Brightness,Saturation,Sharpness,Contrast,Denoise (0-100%) adjustable
White Balance	AWB/MWB
Light Mode	Smart(dual-light) / Infrared / White light, adjustable
Light Control	Auto/Manual, Brightness level (0-100%) adjustable
DNR	2D/3D DNR
Encode	
Video Standard	H.264/H.265
Video Resolution	Main Stream: 20fps@8MP(3840x2160),30fps@6MP(3072x2048)/5MP(2592x1944)/4MP(2560x1440)/3MP(2304x1296)/1080P/720P Sub stream: 10fps@720P,30fps@D1(704x576)(default)/(720x480)/VGA(640x480)/QVGA(640x360)
Video Bitrates	Main stream: 64kbps-8Mbps Sub stream: 64kbps-2048kbps VBR/CBR , quality(1-9), GOP(1-128)
Image Snapshot	Sub Stream(SD) snapshot
Image Rotation	0 / 90 / 180 / 270 degree adjustable
Border Crop	X crop, Y crop
Image Mirror	horizon / vertical / horizon&vertical adjustable
OSD Overlay	Font size(1-4), position,Time, Title, AM/PM, Color, User OSD, Alarm OSD
Privacy Mask	4 areas
Region of Interest	ROI: Each stream support 8 areas
Audio Standard	G.711-u/G.711-a/AAC/PCM, AEC
Built-in Mic	Yes
Led	
Light	2pcs IR & Warm dual Lights (Default with IR Type)
Light Distance	20-30M
Lens	
Focal length	F1.6 2.8 mm Fixed Lens



Smart Detection	
Motion Detection	Yes
Digital IO Alarm	1 pair Alarm-in/Alarm-out, normally open/normally close (optional)
Human Vehicle Detection	Yes, (2-20 meters)
Cross Line Detection	Yes, 4 lines
Perimeter protection	Yes, 4 areas
Face Detection	Yes, (1-5 meters)
Target Detection Type	Human Shape, vehicle, non-motor vehicle, Pet, Face (12px-1000px)
Trigger Action Linkage	Snapshot, Record, Relay optional, White LED Flash, Email, FTP, NAS storage (NFS)
Simultaneous Detection	Maximum 16 targets simultaneous detection
Storage Type	Schedule/Trigger: Email, FTP, NAS(NFS)
Network Services	
Protocol	HTTP(s)/RTSP/FTP/SMTP/DHCP/NTP/DST/RTP/RTMP/P2P/HiK/IPv4/IPv6/NFS/DDNS
IP Address Filtering	Yes (Allow list, Deny list)
P2P Mobile APP	Android, IOS
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 $\pm$ 10%
Power Consumption	< 8 W
Operating Temp.	-20 $^{\circ}$ C-(+60) $^{\circ}$ C, 10%-90%RH

