

TR-DF4453-E

5MP 42X Speed Dome Network Camera



Key Features

- High quality imaging with 5 MP resolution.
- Efficient H.265+ compression technology.
- Clear imaging against strong back light due to 120dB WDR technology.
- Focus on human and vehicle targets classification based on deep learning.
- Combines optical and digital zoom to capture detailed images.
- Motorized varifocal lens for easy installation and monitoring
- Audio and alarm interface available.
- Water and dust resistant (IP66) and vandal-resistant (IK10)

Introduction

Translogi 5MP 42× IR Network PTZ Speed Dome is equipped with a high-performance 1/2.8" progressive scan CMOS sensor and a powerful 42× optical zoom lens, delivering clear and detailed images across vast areas, day or night. Ideal for large-scale deployments such as highways, ports, airports, parks, and critical infrastructure, it ensures wide-area coverage with precision and reliability.

Built with a security-by-design approach, the camera integrates multi-layer cybersecurity features including data encryption, network protection, and privacy controls in full compliance with local laws and international standards, safeguarding your system and data against cyber threats.

Specifications

Camera sensor

Sensor Size	1/2.8" Progressive Scan CMOS
Max. Resolution	2592 x 1944
Color Sensitivity	Color: 0.005 Lux @ F1.8, B/W: 0 Lux with IR
Day & Night	IR cut filter
Shutter Speed	1 s to 1/100,000 s
Digital Zoom	16X

Camera lens

Lens Focal Length	7mm~300mm, 42X Optical Zoom
Focal Length & FOV	Horizontal FOV 43° to 1°, Vertical FOV 33° to 0.6°, Diagonal FOV 53° to 1.2°
Zoom Speed	Approx 7s (Wide-Tele)
Aperture	F1.8~F6.5
Iris Control	Auto
Focus	Auto, Manual

PTZ

Pan Range/Pan Speed	360°endless / Pan Manual Speed: 0.1°~250°/s, Pan Preset Speed: 250°/s
Tilt Range/Tilt Speed	-5°~90°(Auto Flip) / Tilt Manual Speed: 0.1°~160°/s, Tilt Preset Speed: 160°/s
Proportional Zoom	Support

Preset Quantity	300
Patrol	8 Patrols, up to 48 presets each patrol
Pattern	4 Patterns
Auto Tracking	Support
Power Off Memory	Support
Other Function	Auto Scan, Auto Home, Preset Freezing, 3D positioning, PTZ Limits, PTZ Movement, Initial Position

Supplement Light

Supplement Light Type	IR
Max. IR Distance	Up to 300 m
Wavelength	850 nm
Day/Night Switch	Day, Night, Auto, Schedule

Image

Wide Dynamic Range (WDR)	120 dB
Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, AGC, Defog, AWB, Deblur, Anti-flicker, Corridor Mode, Noise reduction
Image Settings	Brightness, Contrast, Saturation, Sharpness
ROI	Up to 8 areas
S/N	>55dB
Privacy Masking	Up to 8 Areas (Mask Area and Mosaic Area are optional)

Video

Video Compression	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG
Video Bit Rate	16Kbps ~ 16Mbps(CBR/VBR Adjustable)
Audio Compression	G.711, AAC, G.722, G.726
Audio Sampling Rate	8/16/32/44.1/48KHz
Audio Bit Rate	16~256kbps

Frame Rate

Main Stream	60Hz: 30fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 60fps@(1920x1080, 1280x960, 1280x720) 50Hz: 25fps@(2592x1944, 2592x1520), 45fps@(2048x1536), 50fps@(1920x1080, 1280x960, 1280x720)
Sub-Stream	60Hz: 30fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(704x576, 640x480, 640x360, 352x288, 320x240)
Third Stream	60Hz: 30fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240) 50Hz: 25fps@(2048x1536, 1920x1080, 1600x1200, 1280x720, 704x576, 640x480, 640x360, 320x240)

Network

Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Protocols	IPv4/IPv6, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, LLDP, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL, TLS 1.2
System Compatibility	ONVIF Profile G & M & S & T, API

SIP/VoIP Support	Yes, Voice & Video-over-IP
Network Storage	NAS (Support NFS, SMB/CIFS), ANR

I/O interface

Audio I/O	1/1
Alarm I/O	4/2
RS485	Support
On-Board Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB

Features & Performance

Basic Event	Motion Detection, Tamper Detection, External Output, External Input, Audio Alarm, etc.
Exception	Network Disconnection, IP Address Filtering, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, Watermark
Event Action	FTP Upload, Snapshot, SMTP Upload, SD Card Record, SIP Phone, Play Audio, PTZ Motion, HTTP Notification, etc.
Video Analysis	VCA 2.0: Intrusion Detection, Region Entrance, Region Exiting, Advanced Motion Detection, Line Crossing, Loitering, Object Left, Object Removed
Attribute Extraction	Simultaneously detect up to 50 targets and capture humans and vehicles in real time. Recognize attributes including Upper and Lower Clothing Color, Hat, and Vehicle Types (Bicycle, Car, Motorcycle, Bus, Truck, E-scooter).
Face Detection & Face Attribute Recognition	Detect and capture faces, get real-time snapshots. The attributes include Age, Gender, Glasses, Mask and Cap.
Object Counting & Report	Count the number of objects crossing the line, optionally human and vehicle, Support regional people counting for up to 4 detection areas

General

Dimension	Φ 205mmX310mm
Weight	Approx. 4kg
Material	Aluminum alloy
Power supply	DC 24V/ AC 24V, max 23 W PoE (802.3at), max 25.5 W
Surge Protection	6KV
Heater	Support
Wiper(Optional)	Support

Environmental

Operating Temperature	-40 °C to 60 °C
Humidity	Less than 95% RH Non-condensing

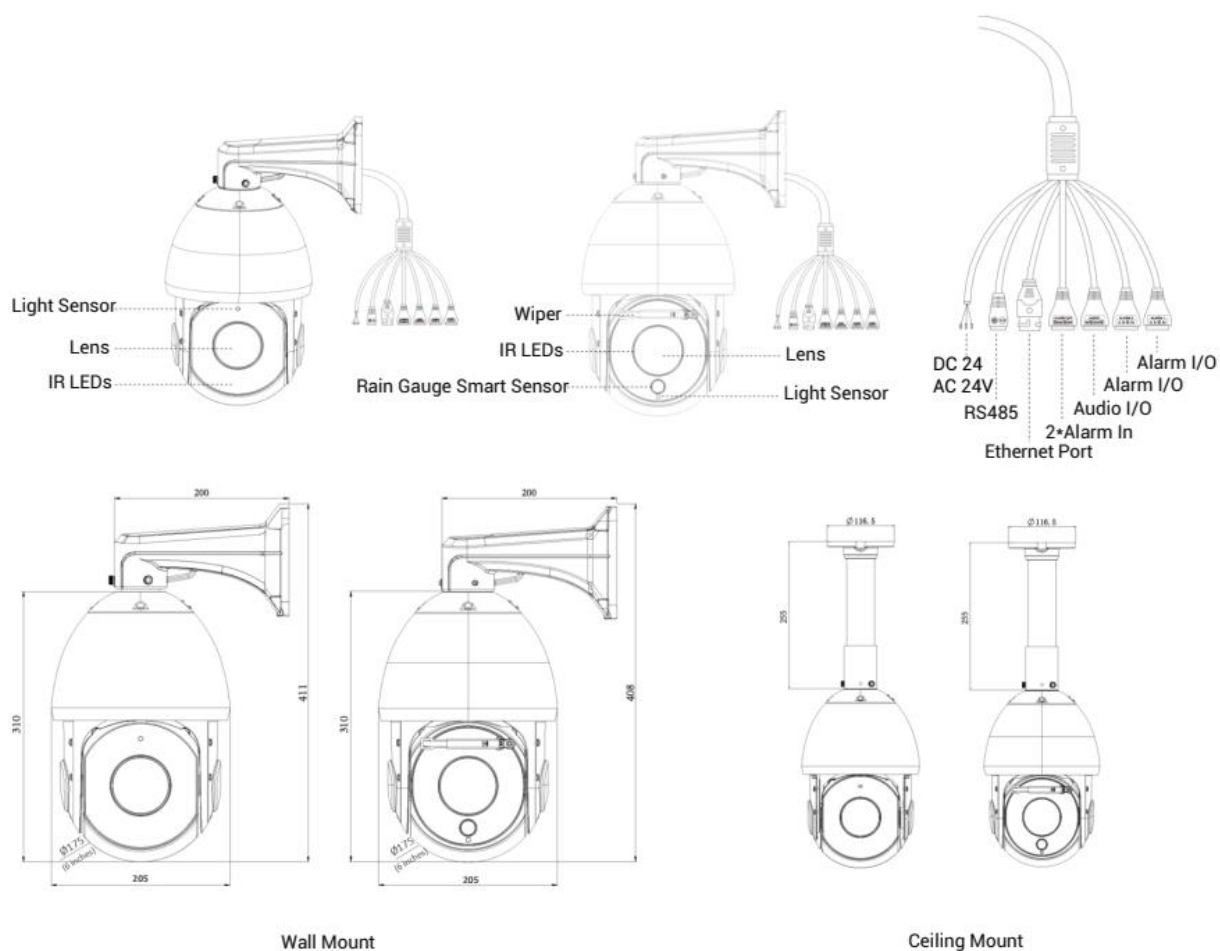
Approval

EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B)
Safety	UL: UL 62368-1, CE-LVD (EN IEC 62368-1)
Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)
Protection	IP66, IK10(Optional)

Ordering Information

- TR-DF4453-E(U)

Dimension



Accessory

Pole Mount Bracket	Corner Mount Bracket	Wall Mount
		
Junction Box	Extension Lever	Pendant Mount
		

Note: Specifications are subject to change without notice.

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