

TR-TM403I-E

4MP ANPR Motorized Bullet Network Camera



Key Features

- High quality imaging with 4 MP resolution.
- Excellent low-light performance.
- Efficient H.265+ compression technology.
- Clear imaging against strong back light due to 140dB WDR technology.
- Built-in intelligent AI-powered ANPR Algorithm
- Support Black and White List and No-plate Event
- Motorized varifocal lens for easy installation and monitoring
- Audio and alarm interface available.
- Water and dust resistant (IP67) and vandal-resistant (IK10)

Introduction

Powered by advanced AI-based recognition algorithms, this ANPR camera ensures highly accurate license plate detection and recognition in real time, even under challenging lighting or traffic conditions. Its optimized image processing and embedded analytics enable fast and reliable data capture at both edge and server levels, enhancing enforcement and traffic management efficiency.

Specifications

Camera sensor

Sensor Size	1/1.8" Progressive Scan CMOS
Max. Resolution	2688 × 1520
Color Sensitivity	Color: 0.005 Lux @ F1.6, B/W: 0 Lux with IR
Day & Night	IR cut filter
Shutter Speed	1 s to 1/100,000 s

Camera lens

Lens Focal Length	8~32mm varifocal motorized lens, 4X Optical zoom
Focal Length & FOV	Horizontal FOV 44° to 13°, Vertical FOV 25° to 7°, Diagonal FOV 51° to 15°
Aperture	F1.6~F1.7
Lens Mount	Φ14
Focus	Auto, Manual
Lens Drive Type	P-Iris

Supplement Light

Supplement Light Type	IR
Max. IR Distance	Up to 50 m
Wavelength	850 nm
Day/Night Switch	Day, Night, Auto, Schedule

Image

Wide Dynamic Range (WDR)	140 dB
Image Enhancement	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, IP Address Filtering, AGC, EIS, Anti-flicker, Corridor Mode, Deblur, Watermark
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
Two-way Audio	Support

Frame Rate

Main Stream	60Hz: 60fps@(2688×1520, 2304×1296, 1920×1080, 1280×720) 50Hz: 50fps@(2688×1520, 2304×1296, 1920×1080, 1280×720)
Sub-Stream	60Hz: 60fps@(704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 50fps@(704x576, 640x480, 640x360, 352x288, 320x240)
Third Stream	60Hz: 30fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288, 320x240) 50Hz: 25fps@(1920x1080, 1280x720, 704x576, 640x480, 640x360, 352x288, 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, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL
System Compatibility	API, MQTT, HTTP, TCP, ONVIF Profile G & M & S & T
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 Input	2
Alarm Output	2 (1 relay output; 1 open collector output, max. 12V DC/10mA)
Wiegand	1
RS485	1
On-Board Storage	Support Micro SD/SDHC/SDXC Card Local Storage, up to 1TB

Features & Performance

Basic Event	Black/White List, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
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Exception	Network Disconnection, IP Address Conflict, Record Failed, SD Card Full, SD Card Uninitialized, SD Card Error, No SD Card, etc.
Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTP Notification, etc.

Vehicle Detection

Max. Vehicle Speed	160km/h
Capture Rate	99%
Recognition Accuracy	98%
Coverage	2 lanes
Country/Region Supported	More than 80 countries and regions
ANPR Distance	Up to 40m
Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture, Vehicle Direction Detection <i>* Vehicle Color and Plate Color identification are not supported in low-light or night conditions.</i>
Smart Traffic Function	Evidence Camera Linkage, Specific Lane Management, Vehicle Classification & Counting, LPR Smart Search
White/Black List	Up to 20,000 records inside the camera

General

Dimension	346mm x 134mm x 126mm
Weight	Approx. 1.3kg
Material	Aluminum alloy
Power supply	DC 12V±10%, max 14.8 W PoE (802.3at), max 17.8 W
Surge Protection	4KV

Environmental

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

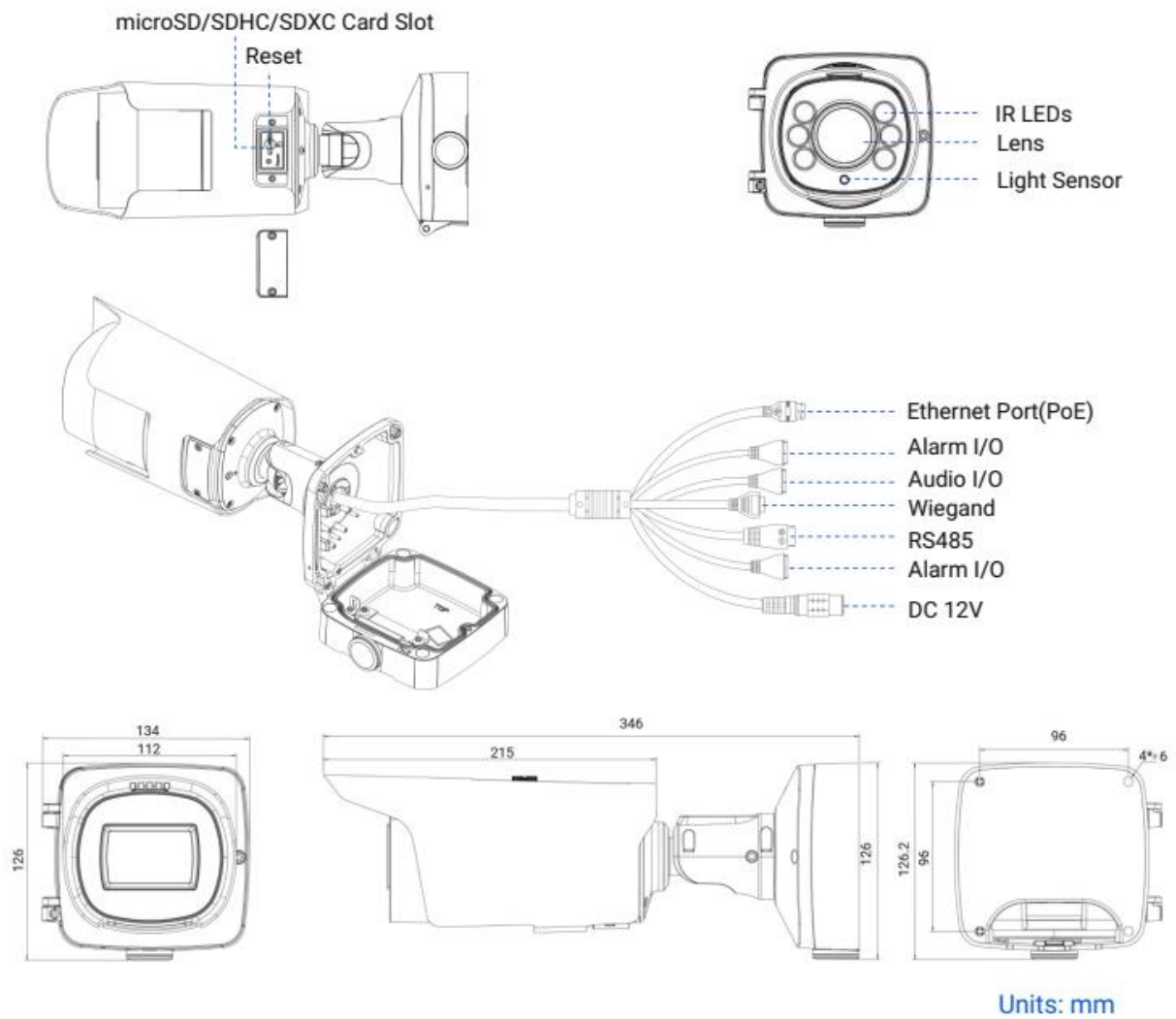
Approval

EMC	CE-EMC (EN 55032, EN 55035), FCC (PART 15B), RCM-EMC (AS/NZS CISPR 32:2015+A1(2020))
Safety	CE-LVD (EN IEC 62368-1), RCM-LVD (IEC 62368-1:2018)
Environment	CE-ROHS (Directive (EU) 2015/863 amending 2011/65/EU)
Protection	IP67, IK10

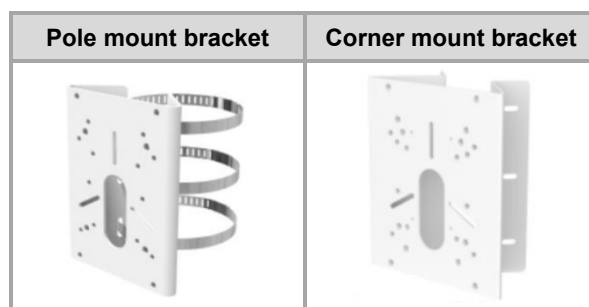
Ordering Information

- TR-TM403I-E(U)

Dimension



Accessory



Note: Specifications are subject to change without notice.

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