TrafficX

Milesight

TrafficX Camera
& TrafficX Enforcement Camera

KEY FEATURES

▶ **Dual-camera Integrated Evidence Collection**
(By utilizing **Vehicle Close-up ANPR**, in combination with **Surveillance Overview**, the capture and analysis of vehicle targets and behavior enable the acquisition of reliable synchronized time and scene evidence.)

▶ **250km/h High Recognizable Speed** (Exceling at capturing detailed fast-paced dynamic scenes, covering 3 lanes and distance up to 50m.)

▶ **24/7 High Accuracy** (Achieving 99% capture rate and 98% license plate recognition rate even in low-light environments.)

▶ **Edge AI-based ANPR** (Incorporating advanced image processing technology capable of accurately recognizing both reflective and non-reflective license plates, it swiftly and precisely identifies license plate numbers and colors, as well as captures vehicles without license plates. Additionally, it collects relevant attributes such as vehicle color, type, and brand information.)

▶ **Professional violation recognition, reliable enforcement assistant.**

▶ **Easy Installation** (Embedded 4G module for easy network connection and flexible angle adjustment design.)

▶ **Compatibility** (Support CGI/APIs and TCP/HTTP/MQTT protocols for easy integration.)

**DATA SHEET |** TrafficX Camera & TrafficX Enforcement Camera

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Dual-Sensor Evidence Collection

The dual-sensor of TrafficX camera focusing on different aspects, provides simultaneous evidence with a unified timeline. ANPR sensor focuses on vehicle close-ups and license plate recognition, while the Evidence sensor captures clear full overviews of the surrounding environment. It enables comprehensive and high-precision data and information retrieval.
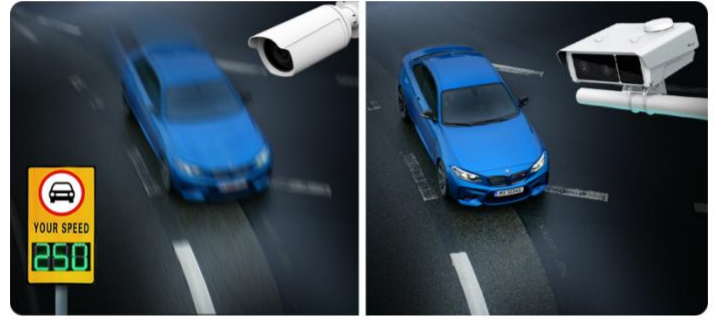
Ace-Level Vehicle Acquisition Capability

Thanks to the high-performance chip and the revolutionary Frame Parity Flashing and Global Shutter technology, this camera provides a comprehensive and groundbreaking level of enhancement. It achieves an impressive vehicle capture rate of 99% and a vehicle recognition rate of 98%. It is capable of capturing vehicles traveling at speeds up to 250 km/h. With a coverage distance of 50 meters, it showcases extraordinary capabilities in capturing vehicle-related information.

Traffic Violation Detection

AI-based TrafficX series cameras accurately detect and alert violation events such as Red Light Violation **(TS5511-GH)**, Reverse Driving Detection, No-plate Vehicle Detection, Black/White List Detection and Vehicle Event Detection based on recognized vehicle features.

Easy Deployment and Management

Easy camera deployment, professional-grade IP67 protection and reliable construction. Optional 4G LTE allows wireless transmission via SIM card, eliminating the need for complex network cable connections. Built-in GPS facilitates precise location information collection and management, aiding in vehicle tracking, evidence gathering, and crime investigation.
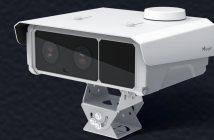
Typical Applications
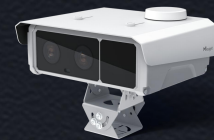

Freeway

Urban Road

Free-flow Tolling

Low Emission Zone

Model		TS5511-GH (5MP*2)		
Camera	Name	TrafficX Enforcement Camera		
	Image Sensor	Color, 2/3" Global Shutter		
	Min. Illumination	Color: 0.001 Lux@(F1.4, AGC ON)		
	Shutter Time	30 us- 40000 us		
	Day/Night Mode	Day/Night/Auto		
	Supplement Light	IR	IR Strobe Light (16 light beads)	
		IR Distance	60m	
		IR Wave Length	850nm (Default), 740nm (Optional)	
Road Traffic Management	Max. ANPR Range	Up to 50m		
	Max. Vehicle Speed	250 km/h		
	Coverage	Recommended for 2~3 lanes		
	Capture Rate	Up to 99%		
	Recognition Accuracy	Up to 98%		
	Country Region Supported	More than 74 countries and regions		
	Attributes Identification	Plate Color, Vehicle Type, Vehicle Color, Vehicle Brand, No-plate Vehicle Capture		
	Violation Management	Red Light Running, Cross Line at Red Light, Minimum Red Time for Valid violation, Reverse Driving, Vehicle Attributes Event Detection		
	White/Black List	Up to 2000 records inside the camera		
	LPR Smart Search	Support		
	Image Capture	Stores 6 overview snapshots and 2 LPR snapshots per violation		
	Logs	Log and filter the type of each violation as CONFIRMED, INVALID, FALSE START, STOPPED and UNKNOWN		
Interface	Ethernet	1*RJ45 10M/100M/1000M Ethernet Port		
	RS485	Support		
	Input	4 * Optoisolated Input		
	Output	2 * Strobe Output 1 * Relay Output		

Lens	Lens	15-50mm, Motorized zoom and focus
	Mount	Custom mount
	Field of View	horizontal FOV 41.4° to 10.3°, vertical FOV 26.8° to 8.42°, diagonal FOV 32° to 13.3°
Video	Max. Resolution	2464x2056
	Max. FPS	45fps
	Video Compression	H.265/H.264/MJPEG
	Video Bit Rate	16Kbps~16Mbps (CBR/VBR Adjustable)
	Image Setting	Brightness/Contrast/Saturation
	Privacy Masking	Supports up to 8 mosaic areas per sensor
Wireless Network (Optional)	Cellular	4G LTE NA: B2/B4/B5/B12/B13/B25/B26 EU: B1/B3/B7/B8/B20/B28 AU: B1/B2/B3/B4/B5/B7/B8/B28/B66
	SIM Card	Nano SIM
System	System Compatibility	API, HTTP, TCP, MQTT, ONVIF Profile G & S & T
	Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 1TB
	Language Support	Chinese, English, Arabic, Greek
	Encryption Protocol	FIPS 186
General	GPS	Built-in High-accuracy GPS Module
	Working Temperature	-40°C ~ 70°C
	Working Humidity	0~95% (Non-condensing)
	Power Consumption	22W MAX 26W MAX (With IR on)
	Housing	Vandal-proof IK10-rated metal housing Up to IP67-rated for Weather-resistant Performance
	Power Supply	24 V DC/AC
	Weight	4.3Kg
	Dimensions	121mmx295mmx245mm (Without Mounting Bracket)
	Warranty	3 Years

V 1.1

Structure Diagrams

Lens

GPS Antenna

RJ45

IR Strobe Light
(16 light beads)

Mounting Bracket

Multi-functional
Interface

DC/AC 24V

SIM Card
(Only for the camera
that includes the 4G
module)

SD Card

245

295

121

227.5
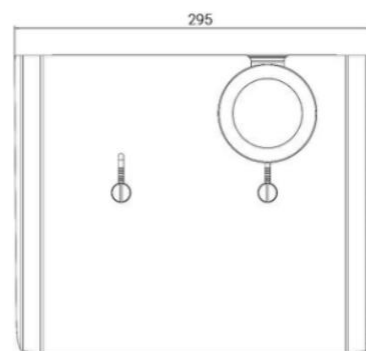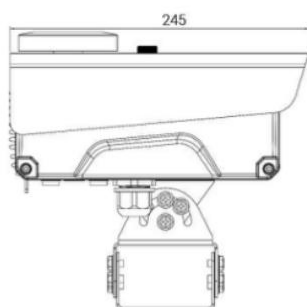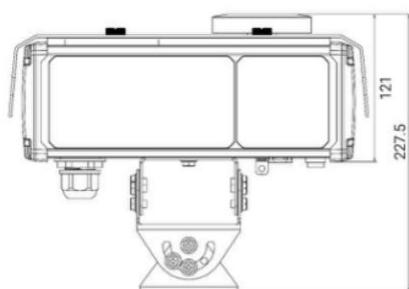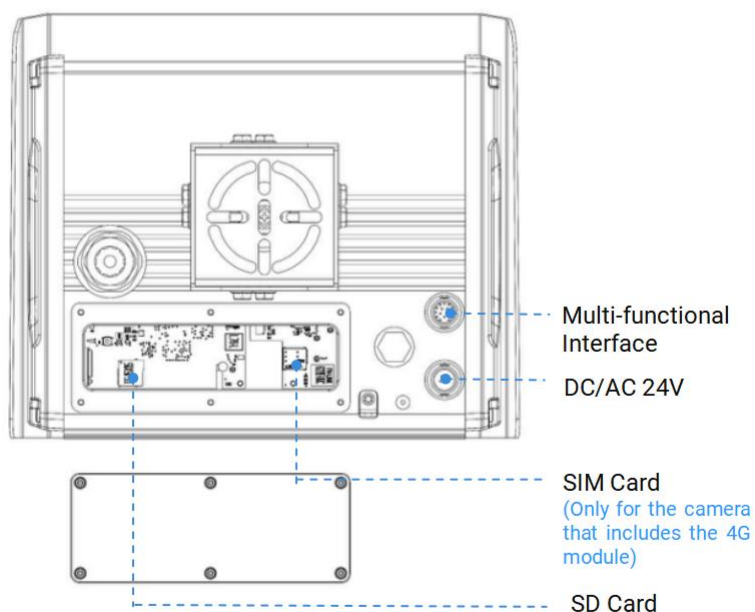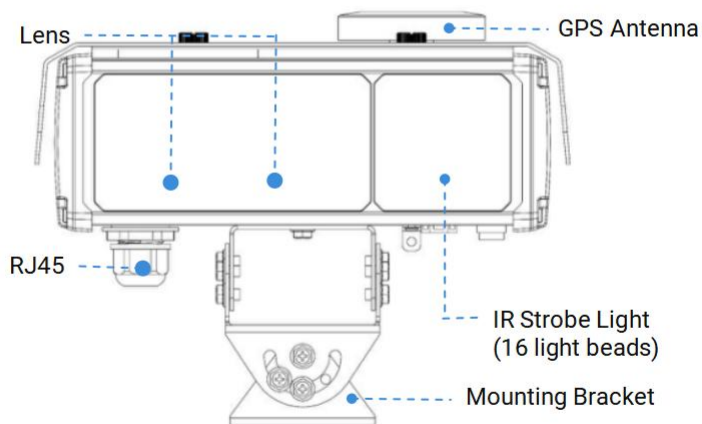
Units: mm

Accessories Support

A91 Pedestal Mount

Weight: 490g

Dimensions: 95*95*110mm

A92 Wall Mount

Weight: 420g

Dimensions:300*80*122mm

A01 Pole Mount

(compatible with A91/A92)

Weight: 720g

Dimensions:

170*51.5*152.6mm