

packetSENSE AI Road Traffic Camera 5G

The **packetSENSE AI Road Traffic Camera 5G** is a specialized type of video surveillance camera designed to recognize numbers and letters of license plates on still or moving vehicles.

It is designed with a built-in algorithm that compensates for speed, weather and headlight glare, which are typical for traffic solutions. Designing a surveillance system to monitor traffic and capture license plates is a more technical process than designing a traditional security camera system.



Key Features

- Recognition accuracy up to 95%
- Ultra-high frame rate up to 120 fps
- Parking violation detection
- Black/White list management
- Easy deployment and compact structure

Applications

- Business center
- Parking lot
- Urban and rural roads
- Gate control

Technical Specification

Camera

Model	TS2866-X4TG PC (2MP)
Image Sensor	1/2 Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux at F1.6 B/W: 0 Lux with IR on
WDR	140 dB Super WDR Pro
Shutter time	1/100000 s ~ 1 s
Day/Night Mode	Day/Night/Auto/Customize/Schedule
S/N	>55 dB

Lens

Lens	8-32 mm, 4X Optical Zoom
Field of View	H44°~H13°/D51°~D15°/V25°~V7°
Mount	Φ14
Focus Control	Auto/Manual
Aperture	F1.6 ~ F1.7
Iris Control	Auto

Road Traffic Management

Max. Vehicle Speed	200 km/h
Recognition Accuracy	>95%
Coverage	Support simultaneous detection of 4 regions
Country Region Supported	More than 80 countries and regions
Illumination Distance	Up to 30 m
Attributes Identification	Plate color, vehicle type, vehicle color
Smart Traffic Function	Evidence camera linkage, vehicle counting based on vehicle type
White/Black List	Up to 1000 records inside the camera
LPR Smart Search	Support

Interface

Ethernet	1 RJ45 10M/100M Ethernet Port
Audio I/O	1/1
Alarm I/O	1/1

Mobile Communication Parameter

Wireless Communication	Support 5G/4G/3G
Frequency	5G NR n1/n2/n3/n5/n7/n8/n12/n20/n28/n41/n66/n71/n77/n78/n79
LTE - FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21(TBD)/B25/B26/B28/B29/B30/B32/B66/B71
LTE - TDD	B34/B38/39/B40/B41/B42/B48
LAA	B46
WCDMA	B1/B2/B3/B4/B5/B6/B8/B19

Wireless Transmission Speed

SA	DL 3.3 Gbps ; UL 250 Mbps
NSA	DL 3.4 Gbps ; UL 200 Mbps
LTE	DL 2.0 Gbps ; UL 150 Mbps
WCDMA	DL 42 Mbps ; UL 5.76 Mbps

SIM Card

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Network

Network Storage	NAS (Support NFS, SMB/CIFS), ANR
Protocol	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL

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Technical Specification

Video

Max. Image Resolution	1920x1080
Primary Stream	60Hz/50Hz: 100fps at 1920x1080, 1280x960, 1280x720, 704x576
Secondary Stream	60Hz: 60fps at 704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180
	50Hz: 50fps at 704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180
Tertiary Stream	60Hz: 30fps at 1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180
	50Hz: 25fps at 1920x1080, 1280x720, 704x576, 640x480, 640x360, 320x240, 320x192, 320x180
Video Compression	H.265 +/-H.265(HEVC)/H.264 +/-H.264/MJPEG
Video Bitrate	16 Kbps - 16 Mbps (CBR/VBR Adjustable)
Privacy Masking	Up to 28 areas (24 mask areas and 4 mosaic areas)
ROI	Up to 8 areas
Image Setting	Brightness/Contrast/Saturation/Sharpness

Audio

System Compatibility	API, HTTP, TCP, ONVIF Profile G & Q & S & T
Storage	Support microSD/SDHC/SDXC Card Local Storage, up to 256 G
Advanced Function	BLC, HLC, 2D DNR, 3D DNR, Defog, AWB, EIS, IP Address Filtering, AGC, Anti-flicker, Corridor Mode, Deblur, Watermark
SIP/VoIP Support	Voice & Video-over-IP
Event Trigger	Black/White List, Attributes Event, Motion Detection, Network Disconnection, External Input, Audio Alarm, etc.
Event Action	FTP Upload, SMTP Upload, SD Card Record, External Output, SIP Phone, HTTPNotification, etc

Installation Requirements

Installation Height	4m to 6m
License Plate Size	More than 130 pixels (Optimal Size)
Tilt Angle	Less than 5°
Vertical Angle	Less than 30°
Horizontal Angle	Less than or equal 30°

General Specifications

Working Temperature	-40°C to +60°C
Working Humidity	0-95% (Non-condensing)
Power Supply	PoE (802.3 at) / DC 12V±10%
Power Consumption	8W MAX 14W MAX (With IR on)
Surge Protection	4KV
Weather Proof	Up to IP67-rated for weather-resistant performance (only for camera body)
Weight	1608 g
Dimensions	320 mm X 134 mm X 126 mm 320 mm X 134 mm X 292 mm (with 5G antennas)