PLACA TOWCAM

Single Lens

Compact global shutter camera
for vehicle-mounted plate capture



3.2MP
Global shutter sensor

60fps
At 1920 x 1440

IP68
Nitrogen-filled

TowCam Single Lens combines a compact aluminum housing, infrared illumination and a global shutter sensor for mobile LPR deployments. Fixed 4mm, 6mm and 8mm lens options support different fields of view.

Capture and connectivity

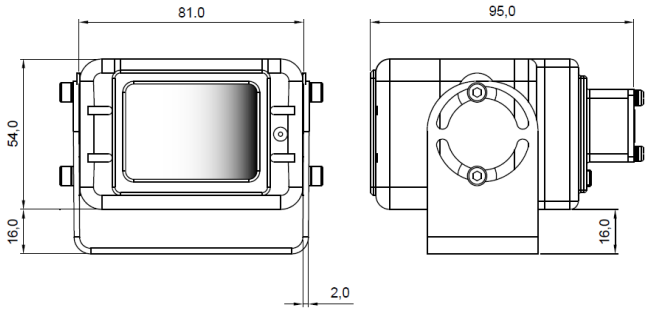
Global shutter imaging
Individual shutter-speed and AEW settings for day and night operation.

Infrared illumination
Four 855nm high-power IR LEDs.

Flexible video streams
H.265, H.264, M-JPEG and JPEG; ONVIF Profiles S and T.

Vehicle integration
IEEE 802.3af PoE and M12 A-code 8-pin male connector.

Mechanical dimensions



Dimensions shown in millimeters.
81 W x 95 D x 54 H mm; approximately 520g (camera only).

Plan the complete installation

The camera uses Ethernet and PoE. Vehicle power, mounting, network/router equipment and installation must be matched to the deployment. PLACA software and 4G service are separate from the camera hardware.

Discuss camera placement and the required field of view at **www.placa.ai**.

Technical specifications

CAMERA	
Processor	64-bit quad-core RISC CPU; developed and manufactured in South Korea
Image sensor	3.2MP, 1/3.1-inch global shutter CMOS
Lens / field of view	4mm: 88.4° (D) x 68.6° (H) x 50.7° (V) 6mm: 55.0° (D) x 44.3° (H) x 33.7° (V) 8mm: 41.7° (D) x 33.2° (H) x 24.9° (V)
Effective pixels	2064 (H) x 1554 (V); approximately 3.18 million pixels
Streaming	Quadruple streaming: H.265, H.264, M-JPEG, JPEG
Output resolutions	1920x1440, 1920x1080, 1280x1024, 1280x720, 720x480, 704x480, 640x480, 640x352, 320x240
Maximum frame rate	60fps at 1920x1440
Bit rate control	VBR, CBR (H.264/H.265, 32K-16Mbps), CVBR
Shutter speed	Auto, manual, flicker; 1/30-1/30000 second
Frequency control	60Hz or 50Hz
Privacy masking	8 privacy zones
Motion detection	Up to 4 zones; adjustable motion sensitivity
Day / night	TDN: auto, color, B&W, external
White balance	Auto, preset, manual
Video analytics	Intrusion detection, line crossing, object counting, object tracking, tampering, general detection, abnormal detection
AI capability	1.2 TOPS NPU; object detection (people, vehicles, bicycles, etc.); face detection
Image adjustment	Sharpness, gamma, contrast, D-WDR, defog
NETWORK	
LAN interface	10/100BaseT Ethernet, auto sensing
Simultaneous clients	Live-cast for up to 16 clients
Viewing clients	Multiple web browsers; VLC
Developer support	CGI API for RTSP
ONVIF	Profiles S and T
Protocols	HTTP, RTP/RTSP (unicast/multicast), TCP/IP (v4/v6), UDP, FTP, Telnet, HTTPS, RARP, PPPoE, SNMP, CHAP, DHCP, NTP, SMTP client, UPnP
MECHANICAL & POWER	
Housing	Aluminum
Operating temperature	-30°C to +75°C
Ingress protection	IP68; nitrogen-filled housing
Power	IEEE 802.3af PoE; 48VDC, maximum 57VDC
Power consumption	Up to 5.6W
Dimensions / weight	81 (W) x 95 (D) x 54 (H) mm; camera only, approximately 520g