3MP ANPR-Ultra -Low Light Bullet Camera
EV-IPVF3MP / EV-IPVF8MP

- 3 MP (1/1.8'' GMOS), 2064 × 1544@ 50 fps
- 8 MP (1'' GMOS), 4096 × 2160@ 30 fps
- Color: 0.001 Lux @ (F1.4, AGC ON)
- H.265, H.264, MJPEG
- 60 dB SNR
- 3D DNR
- Alarm I/O
- 3 RS-485 interfaces

- Two defined streams
- Built-in microSD/TF card, up to 128 GB
- License plate recognition
- IP66
- Larger than 99% for detection sensitivity
- Larger than 97% for LPR accuracy
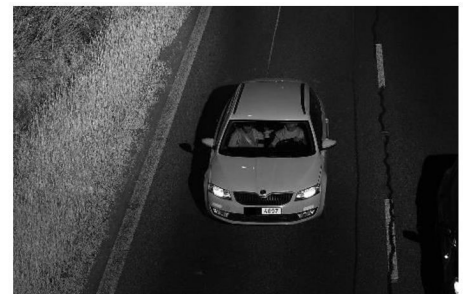
Superiority

- Dedicated camera for ANPR
  - HD resolution
  - Professional shutter speed control
- Built-in ANPR engine, equipped with deep learning algorithm
- Multiple detection and recognition
  - Vehicle type recognition
  - Vehicle color recognition
  - Vehicle manufacturer
  - Radar speed detection
  - Driving on Lane Line Detection
  - Illegal Lane Change Detection
  - Wrong-way driving detection
  - Seatbelt Detection
  - Phone Call Detection

Application

- Vehicle control
- Traffic monitoring
- Toll collection
- Security

Scenarios

- Highway
- Tunnel
- Toll station
- Urban road

Specification

Camera	EV-IPVF3MP	EV-IPVF8MP
Image Sensor	3 MP (1/1.8'' GMOS)	8 MP (1'' GMOS)
Min. Illumination	Color: 0.001 Lux @ (F1.4, AGC ON)	
Shutter Speed	50 us-20000 us	50 us-40000 us
Digital Noise Reduction	2D/3D DNR	
SNR	60 dB	
Lens		
Focal length	5 mm-50 mm	25 mm
Aperture	F1.4	
Focus	Manual	
FOV	CS-mount Horizontal field: 35°-10° Vertical field: 27°-7° C-mount (with adapter ring)	CS-mount Horizontal field: 31°, Vertical field: 16.9°
Supplement Light	3 LED strobe supplement lights, angle: 40° Light supplement for license plate up to 30 m far away	
Compression Standard		
Video Compression	Main stream: H.265/H.264/MJPEG Sub-stream: H.265/H.264/MJPEG	
H.264 Type	Baseline profile/Main profile/High profile	
H.265 Type	Baseline profile/Main profile/High profile	
Video Bit Rate	32 Kbps to 16 Mbps	
Audio Compression	No	
Audio Bit Rate	No	
Smart Feature		
Recognition	License plate recognition	
Coverage	1 lane	2-3 lanes
Trigger Mode	External I/O trigger/Radar trigger/Video trigger	
Supplement Light Type	External strobe/flash/continuous light	
Smart Function	Vehicle type classification, color identification, no-plate vehicle capture, vehicle driving direction detection	
Accuracy **(Under recommended installation and lighting conditions)**	Capture rate > 98% Vehicle moving direction recognition accuracy > 98.5% LPR accuracy > 98% Mistaken capture rate < 2%	
No License Plate Detection	Supported	
Motorcycle LPR	Supported	
Vehicle Type	Car/Van/Bus/Truck/Others	
Vehicle Color	Red, yellow(including orange), green, blue, purple, brown, white, grey(including silver), black	
License Plate Color Recognition	Customized to support	
Driving on Lane Line Detection	Supported (only strobe light mode)	
Illegal Lane Change Detection	Supported (only strobe light mode)	

Wrong-way Driving Detection	Supported
Emergency Lane Occupation	Supported (truck forbidden lane, emergency lane, urban bus lane)
Seatbelt Detection	Supported (with flash supplement light SL-1211-2)
Phone Call Detection	Supported (with flash supplement light SL-1211-2)
Capture Speed Range	5 to 250 km/h

Image		
Max. Resolution	2064 × 1544	4096 × 2160
Main Stream	50 Hz: 50 fps (2064 × 1544, 2048 × 1536, 1920 × 1080) 60 Hz: 30 fps (2064 × 1544, 2048 × 1536, 1920 × 1080)	50 Hz: 25 fps (4096 × 2160, 1920 × 1080P, 1280 × 720) 60 Hz: 30 fps (4096 × 2160, 1920 × 1080P, 1280 × 720)
Sub-Stream	1920 × 1080, 1280 × 720, 704 × 576, 352 × 288	1920 × 1080, 704 × 576
Image Enhancement	BLC, HLC, 3D DNR	
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.	Saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser.
Video Compression	H.264 and H.265 encoding	
Day/Night Switch	Auto/Scheduled/Triggered by alarm in	
Picture Overlay	LOGO picture can be overlaid on video with 128 × 128 24-bit bmp format.	

Network	
Network Storage	microSD/TF card (128 GB), local storage and CVR, NVR, ANR (Optional)
Alarm Trigger	HDD Error, network disconnected, IP address conflicted, vehicle detector exception, traffic light detector exception
Protocols	TCP/IP, HTTP, HTTPS, FTP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, IPv6, UDP
Security Measures	Password protection, HTTPS encryption, digest authentication for HTTP/HTTPS, digest authentication for ONVIF (Version 2.1)
General Function	One-key reset, three streams, heartbeat, password protection, watermark
API	ONVIF (Version 2.1, PROFILE S, PROFILE G), ISAPI, SDK
Simultaneous Live View	Up to 6 channels
User/Host	Up to 32 users 3 user levels: administrator, operator and user
Client	EV-VMS /Third Party VMS Support
Web Browser	Plug-in free live view supported

Interface	
Audio	No
Communication Interface	2 RJ45 10M/100M/1000M self-adaptive Ethernet interfaces 3 RS-485 interfaces (half duplex, HIKVISION) 1 RS-232 interface
Alarm	4 input interfaces, 6 output interfaces
On-board Storage	Built-in microSD/TF card, up to 128 GB
BNC	CVBS analog output (4CIF resolution), internal
Reset Button	Supported
USB Interface	1 USB 2.0 interface
GPS	Optional

General	
Firmware Version	V4.3.1
Operating System	Linux
Certifications	CE, FCC, RoHS
Operating Conditions	Temperature: -40 °C to +60 °C (-40 °F to +140 °F) Humidity: 95% or less (non-condensing)
Power Supply	24 VDC ± 20%/100 to 240 VAC
Protection Level	IP66
Heater	Supported
Material	Aluminum alloy
Dimensions	With package: 175.68 × 137.5 × 443.99 mm
Weight	Camera: approx. 6.5 ± 0.5 kg (14.3 ± 1.1 lb)
Power Consumption	< 30 W