FEATURES

- Adopts high-performance CMOS image sensor and processor for in-depth extraction and analysis of vehicle information 24/7

- Embraces deep learning algorithm for accurate recognition of vehicles without license plate, and vehicle model, vehicle logo, vehicle series, vehicle color, and more

- Various signal, data and communication interfaces; supports connecting to extra devices, such as barrier

- Built-in LED illuminator for simplified installation

- Motorized vari-focal lens, easy for installation and commissioning

- Integrated design with low power consumption, and IP67 protection grade

www.mtechnology.biz

TECHNICAL SPECIFICATIONS

Basic	Illuminator Number	6 IR illuminators, brightness adjustable
	Image Sensor	1/2.8'' CMOS
	Image Resolution	1920 × 1080 (OSD black strip excluded)
	Video Resolution	Main stream: 1080P (1920 × 1080)/720P (1280 × 720)
		Sub stream: 720P (1280 × 720)/D1 (704 × 576, 704 × 480)/CIF (352 × 288, 352 × 240)
	Video Frame Rate	PAL: Main stream (1920 × 1080@25fps, 1280 × 720@25fps), sub stream (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps)
		NTSC: Main stream (1920 × 1080@30fps, 1280 × 720@30fps), sub stream (1280 × 720@30fps, 704 × 408@30fps, 352 × 240@30fps)
	Bit Rate	H.264B: 32Kbps–32768Kbps H.264M: 32Kbps–32768Kbps H.264H: 32Kbps–32768Kbps H.265: 32Kbps–32768Kbps MJPEG: 512Kbps–65536Kbps
	Video Compression	H.264B/H.264M/H.264H/H.265/MJPEG
	Picture Encoding Format	JPEG
	Noise Reduction	3DNR
	White Balance	Full auto, auto color temperature range, customized color temperature
	Electronic Shutter Speed	1/50–1/10000, auto or manual
	WDR	96 db
	Edge Enhancement	Yes
	Exposure Mode	Full auto, customized auto, customized
	Iris Control	Auto iris (W: 1.6–T: 3.3)
Intelligence	Vehicle Detection	Vehicle capture rate ≥99%
	Vehicle Recognition	Supports recognizing vehicle type, vehicle logo, vehicle series, vehicle color, license plate, features of driver and front-seat passenger, and vehicle without plate. Vehicle recognition rate ≥95%
	Video Metadata	Yes
	Intelligent Track Frame	Intelligent frame display. Supports displaying vehicle plate and vehicle path
Port	Lens Mount	Φ14
	Analog Output	1
	Network	1 100/1000M Ethernet port (RJ-45)
	RS-485	2
	RS-232	1
	Alarm Input	3, optocoupler input (on-off input)
	Alarm Output	3 ports. 2-channel optocoupler output, 1-channel relay output, which can connect to devices such as barriers
	Audio Input	1-channel RCA port
	Audio Output	1-channel RCA port

Performance	Trigger Mode	Video detection; I/O coil; video detection and I/O coil
	Shutter	Single shutter
	Storage	1 built-in TF card port. Supports Kingston 16G, 32G, 64G, and 128G; Mtechnology 16G, 32G, 64G, and 128G; SanDisk 16G, 32G, 64G, and 128G
	Image Tampering Prevention	Yes. Video/picture can be checked through watermark and verification
	Field of View	Horizontal: 108.1° (W)–30.3° (T); Vertical: 56.3° (W)–17.1° (T); Diagonal: 130.9° (W)–34.8° (T)
	Illumination Distance	12 m (39.37 ft)
	Capture Range	3 m–6 m (9.84 ft–19.69 ft)
	Detected Lane Width	3 m –4 m (9.84 ft–13.12 ft)
	Min Ambient Illuminance	0.002 Lux. Illuminator is designed with the camera for illumination
	Max Speed that the Camera Detects	30 km/h
	Alarm Event	Alarm in the case of no storage card, not enough storage space, storage card error, network disconnection, IP conflict, and illegal access
	Security	Authorized username and password, MAC address binding, HTTPS encryption, IEEE 802.1x, and network access control
	OSD Overlay	Supports overlay of time, address (position of channel), lane (number/direction), plate (number and color), vehicle (speed, color, type)
	Automatic Network Replenishment (ANR)	Yes. Platform/FTP
	Auto Registration	Yes
General	Power Supply	12V DC, 24V AC, PoE+
	Power Consumption	<20W
	Operating Temperature	−30°C to +65°C (−22°F to +149 °F)
	Operating Humidity	10%RH–90%RH (no condensation)
	Casing	Metal and plastic
	Protection Grade	IP67
	Dimensions	296.5 mm×124.3mm×107.7mm (11.67'' × 4.89'' × 4.24'') (L × W × H)
	Net Weight	1.7 kg (3.75 lb)
	Gross Weight	2.3 kg (5.07 lb)
	Installation	Installed with bracket
	Lens	3.2 mm–10.5 mm
Certification	CE, FCC	Yes
	RoHS	Yes

Datasheet rev.A23.3

www.mtechnology.biz