



TS 4MPX-OCR-M

Fixed Cameras

# TS 4MPX-OCR-M

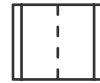
reading plate free flow



Reading plate



streaming video



Double lane



software  
made in Italy

up to  
**99.2%**  
accuracy

OCR of  
**4MPX**  
resolution

up to  
**70°**  
reading angle

## TS 4MPX-OCR-M

Fixed camera with streaming video and simultaneous image capture that allows bright video even at night and reading the license plate. The intelligent OCR system allows the recognition of license plate, type and color of the vehicle of 33 European countries. Possibility of advanced device configuration. Osd, video display and reading of independent plates.

## FUNCTIONALITY

- OCR integrated into the camera
- Free flow reading or with connection. to external devices
- Internal memory up to 128 gb
- Color license plates reading
- Reading Kemler code
- Integrated IR LEDs
- Double FTP
- ONVIF Rtp / Rtsp video stream recording
- Interface for configuration and vision of transits
- Caric. on internal memory of Black and White list
- 8-32 mm motorized lens (with autofocus)
- PoE + power supply



<i>Camera</i>	
Image Sensor	<b>1/1.8" Progressive Scan CMOS</b>
Min. Illumination	Color: 0.001 Lux @ (F1.2, AGC ON), 0.0001 Lux with IR
Shutter Speed	1/25 s to 1/100,000 s
Slow Shutter	Yes
Day & Night	IR Cut Filter
Digital Noise Reduction	3D DNR
WDR	140 dB
<i>Lens</i>	
Focal Length	4 to 11 mm, 8 to 32 mm
Aperture	4 to 11 mm :F1.38, 8 to 32 mm:F1.63~1.8
Focus	Auto
FOV	4 to 11 mm, horizontal FOV 114.7° to 41.9°, vertical FOV 59.4° to 23.6°, diagonal FOV 141.5° to 48.1° 8 to 32 mm, horizontal FOV 39.7° to 15.9°, vertical FOV 22.3° to 9.1°, diagonal FOV 45.8° to 18.1°
Auto-iris	DC drive
<i>IR</i>	
IR Range	4 to 11 mm, Up to 50 m 8 to 32 mm, Up to 100 m
Wavelength	850 nm
<i>Compression Standard</i>	
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	G.711/G.722.1
Audio Bit Rate	8Kbps (G.711) /16Kbps (G.722.1)
<i>Smart Feature</i>	
Recognition	License Plate Recognition
Smart Function	Vehicle model classification, color identification, no-plate vehicle capture, driving direction detection
<i>Road Traffic and Vehicle Detection</i>	

Countries/Regions	<p>Mid-East: Turkey, United Arab Emirates, Qatar, Iran, Iraq, Egypt, Jordan, Kuwait, Saudi Arabia, Tunisia, Palestine, Pakistan</p> <p>Africa: South Africa, Kenya, Nigeria, Tanzania, Mauritius, Morocco</p> <p>Asia-Pacific: Australia, New Zealand, Indonesia, Malaysia, Singapore, South Korea, Thailand, Vietnam, the Philippines, Hong Kong, Macao, Taiwan, Burma, Japan, India, Mongolia</p> <p>America: United States of America, Colombia, Brazil, Ecuador, Peru, Mexico</p> <p>Europe: Croatia, Slovakia, Czech Republic, Bulgaria, Macedonia, Hungary, Greece, Poland, France, Netherlands, Switzerland, Spain, United Kingdom, Ireland, Germany, Italy, Austria, Israel</p> <p>Russian-Speaking Regions: Azerbaijan, Belarus, Kazakhstan, Lithuania, Georgia, Estonia, Latvia, Russian Federation, Ukraine, Moldova, Belarus, Uzbekistan</p>
Accuracy (Under recommended installation and lighting conditions)	Capture rate > 99% Driving direction recognition accuracy > 98.5% Mistaken capture rate < 1.5% (entrance/exit), < 2%
	European and Russian-Speaking Regions: LPR accuracy > 98.5% Country/Region recognition accuracy > 99.4%
No License Plate Detection	Yes
Motorcycle LPR	Yes
<i>Image</i>	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Sub-Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 576, 352 × 288)
Third Stream	50 Hz: 25 fps (1280 × 720, 704 × 576, 352 × 288) 60 Hz: 30 fps (1280 × 720, 704 × 480, 640 × 480)
Image Settings	Rotation mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable via client software or web browser.
SVC	H.264 and H.265 encoding
Day/Night Switch	Auto/Scheduled/Triggered by alarm in
Video Overlay	Logo picture can be overlaid on video with 128 × 128 in 24-bit bitmap format
<i>Network</i>	
Network Storage	microSD/TF card (128 GB), local storage, CVR, NVR, ANR
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), ISAPI, SDK
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users. 3 user levels: administrator, operator, and user
Client	iVMS-4200, Hik-Connect, Hik-Central

Web Browser	IE7+
<b>Interface</b>	
Audio	Yes
Communication Interface	1 RJ45 10M/100M/1000M Ethernet interface, 1 RS-485 interface, Wiegand interface
Alarm	1 input, 1 output, 2 relays
Video Output	Network
On-Board Storage	Built-in microSD/TF card, up to 128 GB
Reset Button	Yes
<b>General</b>	
Firmware Version	V4.2.2
Operating Conditions	Temperature: -30 °C to +70 °C (-22 °F to +158 °F) , -H: -40 °C to +60 °C (-40 °F to +140 °F) Humidity: 95% or less (non-condensing)
Power Supply	12 VDC to 24 VDC $\pm$ 20%, PoE (802.3at, class 4)
Power Consumption	Max.12 W
Protection Level	IP67, IK10
Heater	-H: yes
Material	Aluminum alloy
Dimensions	With package: 428.5 × 120 × 132.8 mm (16.87" × 4.72" × 5.23")
Weight	Camera: approx. 3.12 $\pm$ 0.5 kg (6.88 $\pm$ 1.1 lb)

\* Listed resolutions are only selectable options. It does not mean that all streams can work at their maximum resolution at the same time.

\*-H: Heater supported