ARH M202/402
DAY AND NIGHT MOBILE ANPR CAMERA FOR TRAFFIC, PARKING AND LAW ENFORCEMENT

M202/M402 is a high performance unmanned license plate scanner that truly is on the move. Today’s markets demand hardware and software solutions that can read license plates while the camera itself is in motion. Up until now, with no reliable way to trigger, the processing power needed for these applications ranged from immense to non-existent. With its revolutionary software based triggering algorithm, compact size, discreet design and the world’s most sophisticated ANPR engine, the M202/M402 camera family provides an all-in-one solution to the greatest challenge in ANPR yet: capturing and reading license plates while both the camera and the vehicle are in motion.

EFFICIENT MOBILE ANPR-BASED SURVEILLANCE

MAIN BENEFITS

- Reads license plates from moving vehicles
- Ideal for toll collection, police applications and parking enforcement
- ONVIF compliant device
- Onboard ANPR software (M402)
- Patrol car, roadside, barrier and gate mounting
- Quick and easy installation with single cable connection
- Easy pan/tilt and external mounting on any vehicle
- Optimized for MobilSpot®

TOWARD THE FUTURE IN SAFETY – SINCE 1991
The M202/M402 digital IP camera comes equipped with brightness control settings that are optimized for recognizing license plates at high speeds and under rapidly changing lighting conditions. In addition, M402 is equipped with its own onboard web server and embedded ANPR/LPR. The unit is protected by IP67 rated durable weather-proof housing. The device’s fixed-lens camera module generates ONVIF certified MJPEG videos or JPEG still image outputs.

**IMAGING**

- **Resolution (H x V pixels):** 1280 x 720
- **Sensor:** Global shutter, color CCD
- **Max Frame Rate (at all resolution):** 30 frames/sec
- **Output Format:** JPEG, MJPEG stream, H.264
- **Day/Night Mode:** Configurable day/night mode switching

**ILLUMINATION**

- **Type of LEDs:** High quality SMD IR
- **Wavelength (IP PASS/IR CUT):** IR CUT: 700 nm / IR PASS: 800-900 nm
- **Intensity:** 3 preconfigured modes
- **Operation:** Low power consumption adjustable flash

**EFFECTIVE RANGE FOR ANPR**

<table>
<thead>
<tr>
<th>Character</th>
<th>Lens</th>
<th>Horizontal Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 mm char. size.</td>
<td>3.5 mm lens: 1.0 m – 3.5 m (3.3 ft – 11.5 ft)</td>
<td>16 mm lens: 8.0 m – 14.0 m (26.2 ft – 46.0 ft)</td>
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<tr>
<td>70 mm char. size.</td>
<td>3.5 mm lens: 1.0 m – 3.0 m (3.3 ft – 10 ft)</td>
<td>16 mm lens: 8.0 m – 14.0 m (26.2 ft – 46.0 ft)</td>
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<tr>
<td>50 mm char. size.</td>
<td>3.5 mm lens: 1.0 m – 1.2 m (3.3 ft – 4 ft)</td>
<td>16 mm lens: 6.5 m – 9.0 m (21.3 ft – 30.0 ft)</td>
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**PROCESSING & I/O**

- **Communication Protocol:** ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP
- **Communication Interface:** 1 Gbit/sec Ethernet

**ELECTRICAL DATA**

- **Power requirement:** POE+
- **Power Consumption:** 14 – 25 W

**PHYSICAL CHARACTERISTICS**

- **Operating Temperature:** -30 °C to 55 °C (-22 °F to 131 °F)
- **Startup Temperature:** -20 °C (-4 °F)
- **IP rating:** IP 67
- **Dimensions (L x W x H):** 183 mm x 160 mm x 57 mm (7.2” x 6.3” x 2.2”)
- **Weight (without bracket):** 1.4 kg (3.1 lb)
- **Weight (bracket):** 0.4 kg (0.9 lb)
- **Housing Material:** Aluminum
- **Housing Color:** RAL 9007 / Optional Custom
- **Shield Color:** RAL 9007 / Optional Custom