

# MICROPAK VARIO



High performance, standalone, triggerless and easy to install LPR Camera.

- **All Integrated:** LPR is performed entirely inside the camera, [no LPR server needed](#).
- **High speed:** 20ms to digitalize plates on vehicles moving at speeds up to 155 mph (250 km/h)
- **No Trigger needed:** The fastest option for [frictionless](#) applications.
- **DGPR** (Dangerous Goods Plate Recognition) capability.
- **Adjustable Recognition Distance:** From 5 ft (1.5 m) to 51 ft (15.5 m)
- **Dry contact** To directly control a barrier.
- **CST Ready:** Monitoring tool for validating camera's installation and performance.

## LPR that Commits!

Includes a Contractual Guarantee of Performance.

**Satisfied or Refunded!**

## Applications



PARKING



ACCESS CONTROL



SECURITY



ITS & TOLLING

## LICENSE PLATE RECOGNITION

|   | European (long) plates   | American (short) plates         |
|---|--|---------------------------------|
| Recognition distance (Micropak Short Range) | From 6.5 to 20 ft (2 to 6 m)   | From 5 to 15 ft (1.5 to 4.5 m)  |
| Recognition distance (Micropak Long Range)  | From 13 to 51 ft (4 to 15.5 m)   | From 8 to 35 ft (2.5 to 10.5 m) |
| Coverage width                              | Up to 13 ft (4 m)  | Up to 10 ft (3 m)               |
| Recognition Engine                          | SURVISION REALTIME EMBEDDED AI ENGINE (SREIE)  |                                 |
| Recognition framerate                       | 60 fps   |                                 |
| Recognition direction                       | Both (Rear and Front)  |                                 |
| Max vehicle speed                           | 155 mph (250 km/h)   |                                 |
| Triggering                                  | Free Running (no trigger) - Software Trigger - Hardware Trigger  |                                 |
| Confidence Ratio                            | Yes  |                                 |
| Recognition JPEG                            | Yes (4 different formats), settable quality  |                                 |
| Square plate formats supported              | Yes  |                                 |
| Countries supported                         | All countries supported supplied at once<br>(contact <a href="mailto:sales@survisiongroup.com">sales@survisiongroup.com</a> for up-to-date list) |                                 |
| Other data supplied                         | Coordinates of the plate, Direction, Country, Jurisdiction, Type   |                                 |
| Realtime video flow                         | Yes  |                                 |

## VIDEO AND ILLUMINATION FEATURES

|                    |   |
|--------------------|---|
| Lighting           | 4 strong power pulsed IR (850 nm) or White Light LEDs |
| CMOS               | HD 1.3 MPixels Black&White                            |
| Compression        | H264  |
| Transport Protocol | RTSP  |
| Available settings | Display framerate (up to 30 fps), Bitrate             |

## ELECTRICAL CHARACTERISTICS

|                   |                        |
|-------------------|------------------------|
| Power supply      | 24 V +/- 3 V           |
| Power Consumption | Average 10 W, max 15 W |

## MECHANICAL CHARACTERISTICS

|                                   |   |
|-----------------------------------|---|
| Weight                            | 3.5 lbs (1.58 kg)                         |
| Dimension (LxWxH)                 | 5.12 x 4.53 x 2.76 in (130 x 115 x 70 mm) |
| Material                          | Aluminium                                 |
| Coating                           | Epoxy painting RAL 7031                   |
| Water&Dust protection             | IP67                                      |
| Connectors                        | Amphenol RJ45 + Amphenol DB10 LTW         |
| Operating and storage temperature | From -40 °F to +131 °F (-40 °C to +55 °C) |

## SECURITY, ENVIRONMENTAL AND TECHNICAL CERTIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>Security</b>               | SSL (TLS 1.2), 802.1x, 802.1q   |
| <b>Photobiological Safety</b> | IEC62471  |
| <b>Homologation</b>           | EMC EN 55032, CE Marking, FCC Part 15, ICEES-003, CB Scheme, EN 61000-6-3, EN 61000-6-2 |
| <b>MTBF</b>                   | 70,000 hours minimum  |
| <b>Time Synchronization</b>   | NTP Protocol  |

## DATA OUTPUT AND INPUT

|                      |   |
|----------------------|---|
| <b>TCP/IP</b>        | SURVISION Open Camera Development Kit (CDK)   |
| <b>FTP</b>           | Embedded FTP Client                           |
| <b>Ethernet</b>      | Ethernet 10 / 100                             |
| <b>Serial</b>        | Insulated RS485                               |
| <b>WIEGAND</b>       | Through external board connected to the RS485 |
| <b>IO/IN</b>         | Optocoupler. Tension min 15 V max 30 V        |
| <b>IO/OUT</b>        | Relay Max. 220 VDC, 2A                        |
| <b>Web Interface</b> | REST webservice and WebSocket (SSWS)          |

## ACCESSORIES AND OPTIONS

|                                  |  |
|----------------------------------|--|
| <b>Power cable</b>               | 10, 33 or 98 ft (3, 10 or 30 m)            |
| <b>Power cable + RS485</b>       | 50 ft (15 m)                               |
| <b>Power Cable + Relay + I/O</b> | 98 ft (30 m)                               |
| <b>Power Supply</b>              | 24 VDC 15 W                                |
| <b>Fixation parts</b>            | Pole Mounting Kit and 3D adjusting Bracket |

## PART NUMBERS

|   | <b>Short Range</b> | <b>Long Range</b> |
|---|--------------------|-------------------|
| <b>IR (Black characters)</b>            | MPK3VA156V         | MPK3VA146V        |
| <b>White Light (Colored characters)</b> | MPK3VA256V         | MPK3VA246V        |