



F3™ FIXED AUTOMATIC NUMBER PLATE READER

The F3™ Fixed Automatic Number Plate Reader system is a next-generation solution using Power over Ethernet (PoE) to reduce infrastructure complexity and costs.

Engineered to support in multiple functions including law enforcement, tolling and traffic data collection, the F3 uses advanced digital cameras with LED illumination and built-in processors to read number plates, make comparisons and store data.

F3 data can be compared to law enforcement hot lists or used to validate passing vehicles as part of a tolling or document validation process.

KEY FEATURES

- Can be mounted to structures such as bridges and overpasses, reading plates up to 115 feet (35m) away, day and night, in all weather
- Captures data for each plate read: b/w and colour photo of the license plate and surrounding area, date/time stamps, camera identifier
- Data captured can be stored on the Enterprise Operations Centre server and analysed to aid investigations and meet other data analysis needs
- System offers two digital camera models with built in processors - F3-POE and the F3-AC-Cellular
- Camera wavelengths and focal lengths optimise photograph clarity and resolution
- Uses embedded cellular modem 4G/LTE Verizon/ AT&T/Vodafone
- Engineered with field-terminable Power over Ethernet cables, reducing system cost
- Performs internal data buffering, retaining its ALPR data during power or network outages
- Depending on the camera model and configuration, a full or mini Field Control Unit (FCU) maybe required to house the power and communication controls.
- The FCU houses:
 - A 120 VAC 10A circuit breaker
 - 38VDC power supply
 - Ruggedised Perle POE 5 port switch (fibre connectivity optional)
 - Rugged Brick PC is optional (i5, 8Gb RAM, 2133MHz, extended temp 256Gb)
 - Cellular modem is optional

F3™ PLATE HUNTER

TECHNICAL SPECIFICATION

LPR Camera sensor	Black/White (1280 x 1024 pixels – CMOS 1/1.8")
Colour Overview Camera Sensor	Color overview camera (1280 x 1024 pixels – CMOS 1/1.8")
Optics interface	C-mount
Focal Length (Reading camera)	16mm, 25mm, 35mm, 50mm, 75mm
Focal Length (Overview camera)	12mm, 16 mm, 25 mm, 35 mm, 50mm
Typical Camera Range	7.5m to 35m
IR Illuminator	740, 850, 940nm LEDs available, driven with high current pulses synchronised with the camera shutter
Processing Unit	Processor embedded in the camera housing
Local Non-Volatile memory	128GB SSD (256GB optional)
Communication	1000BASE-T, IEEE802.3ab
Network Interface	x2 RJ45 ports (configurable for dual IP)
Camera Communication Protocol	TCP/IP and UDP/IP; FTP
Triggering	12VDC I/O, or logical signal (ethernet interface)
Overall Dimensions (without sun shield)	165mm x 127mm x 355mm
Weight	3.9 kg
Power	48VDC (POE) 15W

24X7 All Weather	The F3 is able to operate under all lighting conditions, including night-time operation and in all weather conditions
Operating temperature	-30°C to +65°C
Operating humidity	10 - 95% not condensing
Housing Protection	IP 67
Construction	Aluminum
Data packet record	License Plate String Date/Time of detection Camera identifier JPEG compressed Grayscale and color overlay JPEG of the image of the License Plate <i>Only one read for each vehicle transit is given</i>
OCR Training	The OCR shall be configured for optimal performance for license plates in the region of installation
Options	Visor Cables Mounting brackets Encryption
Certifications	CE Mark

