**Vigilant Solutions, LLC**
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MOTOROLA SOLUTIONS

**Prepared For:**
North Texas Sheriffs' Criminal Interdiction Unit Attention: Tully Yount
NTXCIU System Swaps (4)

**QUOTATION - B_G-0031-01**

**DATE: 10-26-23**

# *PROJECT QUOTATION*

We at Vigilant Solutions, LLC are pleased to quote the following systems for the above referenced project:

## Camera Hardware

| Deliverables / Materials / Services | Qty | Sell Price | Amount |
|---|---|---|---|
| **Mobile LPR 2-Camera L5M High-Definition System (Expandable to 4 Cams)** | **2** | **$0.00** | **$0.00** |
| CDM-2-55–L5M | | | |
| Hardware: | | | |
| Qty=2 25mm lens package | | | |
| VLP-5200 Processing Unit | | | |
| Wiring harness w/ ignition control (Direct to Battery) | | | |
| Single point power connection | | | |
| Field installed GPS antenna | | | |
| Hardware: | | | |
| CarDetector Mobile LPR software application for MDC unit | | | |
| LPR vehicle license plate scanning / real time alerting | | | |
| Full suite of LPR tools including video tool set | | | |
| **L5F Fixed LPR Camera with Sun Shield - 50mm Lens with Camera Cable** | **4** | **$0.00** | **$0.00** |
| VSF-050-L5F - *More Info* | | | |
| Dual-lens camera with infrared LEDs for plate illumination | | | |
| 105ft - 125ft capture distance and up to 2 lane coverage | | | |
| Internal trigger for capture of plate alphanumerics, vehicle make and model | | | |
| Camera housing with included sunshield is IP67 rated for reliable use in varied weather conditions | | | |
| 60' camera cable included | | | |
| Includes CarDetector LPR software for local server hosting | | | |
| LPR vehicle license plate scanning / real time alerting | | | |
| Full suite of LPR tools including data analytics | | | |

| | | | |
|---|---|---|---|
| **VLP-5200** | **2** | **$0.00** | **$0.00** |
| VLP-5200F | | | |
| VLP-5200F VEHICLECOMPUTER 16GB 250GB GPS | | | |
| **VLP-5200 Wire Harness** | **2** | **$0.00** | **$0.00** |
| VLP-40-001 | | | |
| VLP-5200 PWR WIRE HARNESS REAPERHD CAM | | | |
| **L5F Camera Cable - 30 FT** | **8** | **$0.00** | **$0.00** |
| L5F-CAMERA-CBL-30FT-THIN | | | |
| L5F Camera Cable - 30 FT | | | |
| **VLP Antenna** | **2** | **$0.00** | **$0.00** |
| VLP-GPS-ANTENNA | | | |
| VLP-5200 GPSANT 2BANDS BeiDouGPSGLONASS | | | |
| **Subtotal Price** | | | **$0.00** |

## Software

| Deliverables / Materials / Services | Qty | Sell Price | Amount |
|---|---|---|---|
| **Vigilant LPR Basic Service Package for Hosted/Managed LPR Deployments** | **2** | **$0.00** | **$0.00** |
| VSBSCSVC-01 | | | |
| Managed/hosted server account services by Vigilant | | | |
| Includes access to all LEARN or Client Portal and CarDetector software updates | | | |
| Priced per camera per year for up to 14 total camera units registered | | | |
| Requires new/existing Enterprise Service Agreement (ESA) | | | |

| | | | |
|---|---|---|---|
| **Vigilant Hosted/Managed Centralized LPR server via LEARN** | **1** | **$0.00** | **$0.00** |

VS-LEARN–H

Vigilant hosted/managed LEARN account

Central repository for all LPR data acquired by each LPR system

Includes Vigilant's suite of LPR data analytics via online web access

Automated CarDetector software update management

Plate searching, mapping, data mining utilities

Stakeout, Associate Analysis and Locate Analysis

Full administrative security with management auditing

Plug-N-Play an unlimited number of CarDetector LPR systems

Requires NO server hardware, NO server maintenance

Requires Vigilant Enterprise Service Agreement contract

| | |
|---|---|
| **Subtotal Price** | **$0.00** |

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| | |
|---|---|
| **Total Price (Excludes sales tax)** | **$0.00** |

**Notes:**

1. This Quote will expire in 90 Days from the date of the Quote.
2. All hardware components to have standard One (1) year hardware warranty.
3. All software to have standard one (1) year warranty for manufacturer defects.
4. MSI's Master Customer Agreement: https://www.motorolasolutions.com/en_us/about/legal.html (and all applicable addenda) shall govern the products & services and is incorporated herein by this reference. Any free services provided under this offer are provided AS IS with no express or implied warranty

**Quoted by: Blake Galloway - Account Manager - 214-551-2709 - blake.galloway@motorolasolutions.com**

# MOBILE LICENSE PLATE RECOGNITION:

## A VISUAL GUIDE

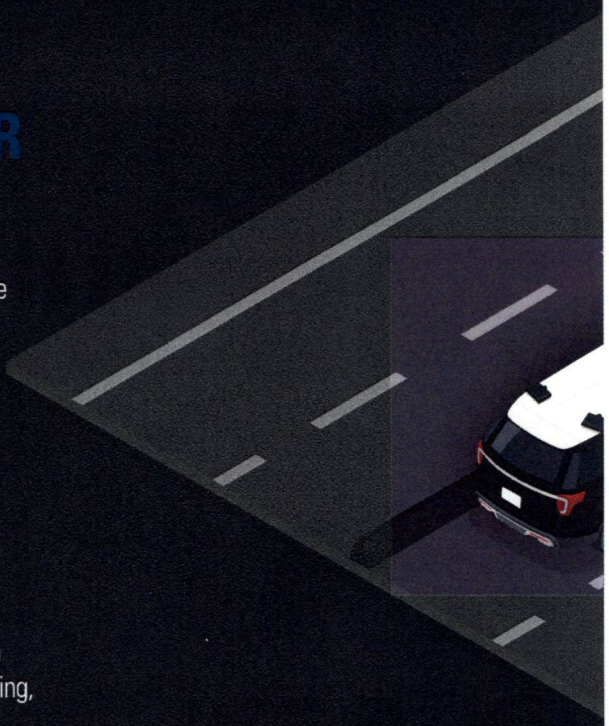
With new solutions entering the market for mobile license plate recognition, we wanted to provide some guidance to help you better understand how they work.

### AI-ENABLED IN-CAR VIDEO SYSTEM

Increase tactical awareness and keep officers safe by enabling license plate scanning with the front-facing camera of the M500 in-car video system.

License plate recognition (LPR) is one of the many artificial intelligence (AI) enabled features available on the M500 that are designed to keep officers safer.

By pairing AI-powered officer safety features with evidence- grade, ultra high-definition video recording, the M500 transforms observation into action.



### MOBILE LPR CAMERA SYSTEM

Enhance situational awareness and improve patrol efficienc at scale with the high-performance L5M camera system pur make and model information to accelerate investigations an

L5M

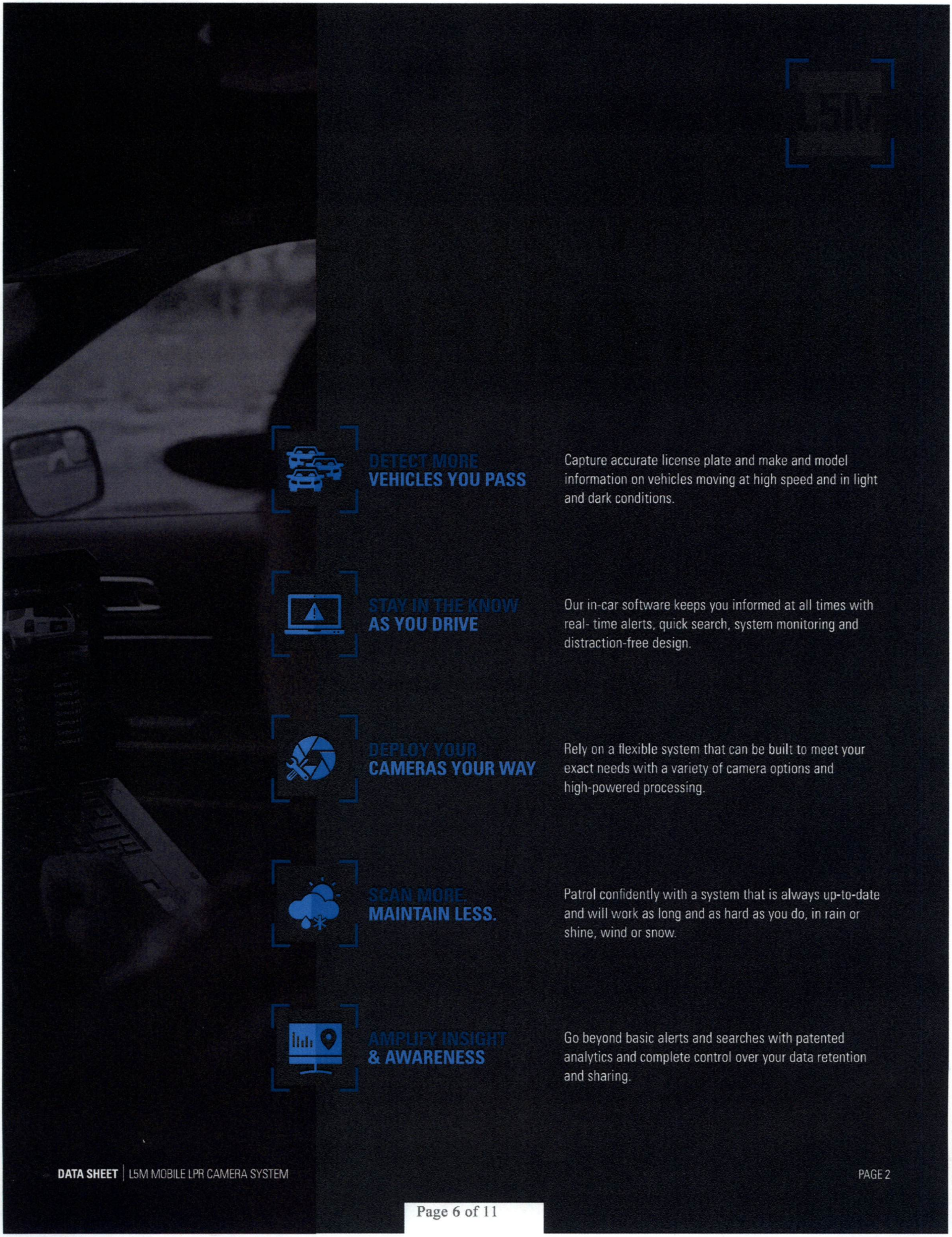
# MOBILE LPR CAMERA SYSTEM

With time at a premium and distractions ever-growing, officer attention needs to be prioritized. The L5M mobile license plate recognition (LPR) camera system is a high-performance solution meant for those who want to maximize detections and data collection to ensure their officers are their safest and most productive while on the road.

With a new, industry-leading image sensor, the L5M provides unprecedented low light performance for accurate license plate and vehicle make and model recognition. A global shutter ensures clear image capture of license plates moving at higher speeds than ever. And our modernized in-car user experience makes all the tools officers need to stay alert and conduct investigations easily accessible.

Paired with the powerful VLP processor, configure your systems with up to four cameras that will continuously and reliably scan day-in and day-out. Even mix and match our previous-generation cameras within a single system for added flexibility or coverage.

Like all of our license plate recognition camera systems, the L5M seamlessly connects with our suite of software solutions, including Vigilant VehicleManager where data can be further operationalized with patented search capabilities and analytics.



## DETECT MORE VEHICLES YOU PASS

Capture accurate license plate and make and model information on vehicles moving at high speed and in light and dark conditions.

## STAY IN THE KNOW AS YOU DRIVE

Our in-car software keeps you informed at all times with real- time alerts, quick search, system monitoring and distraction-free design.

## DEPLOY YOUR CAMERAS YOUR WAY

Rely on a flexible system that can be built to meet your exact needs with a variety of camera options and high-powered processing.

## SCAN MORE. MAINTAIN LESS.

Patrol confidently with a system that is always up-to-date and will work as long and as hard as you do, in rain or shine, wind or snow.

## AMPLIFY INSIGHT & AWARENESS

Go beyond basic alerts and searches with patented analytics and complete control over your data retention and sharing.

# L5M LICENSE PLATE READER

## KEY SPECIFICATIONS

| CAMERA | | |
|---|---|---|
| **Focal Length** | **Optimal Capture Distance** | **Capture Range** |
| 6 mm | 9 ft | 4 - 20 ft |
| 8 mm | 14 ft | 6 - 27 ft |
| 12 mm | 22 ft | 10 - 35 ft |
| 16 mm | 40 ft | 22 - 55 ft |
| 25 mm | 70 ft | 55 - 85 ft |
| **OPTICS** | | |
| Window | Shatterproof window | |
| Resolution | 1440x1080 Monochrome global shutter | 1400x1080 Color global shutter |
| Capture speed maximum | 150 mph (241 kph) | |
| Pulsed LED illumination | Zero lux environments 850nm | |
| **VIDEO STREAMING** | | |
| ONVIF compliant | H.264/H.265, M JPEG | |
| **HOUSING** | | |
| Size | 6.9 x 4.5 x 2 in (175 x 114 x 51 mm) | |
| Color | Matte black | |
| Weight | 3.5 lbs (1.59 kgs) | |

| ENVIRONMENTAL | |
|---|---|
| Environmental protection | IP68 / NEMA4 compliant |
| Operational temperature | -40°F to 140°F (-40°C to 65°C) |
| Connector | IP68 rated |
| **ELECTRICAL** | |
| Power consumption | 12.5W nominal, 25.5W Max |
| Input voltage | POE+ (IEEE802.3 af PD) |
| **CABLE MANAGEMENT** | |
| Cable length | Up to 328 ft (100 m) |
| Type | Cat6 STP 22-24 AWG |
| Connector | 10 pin circular- all-weather, impact resistant |
| **CAMERA ACCESSORIES** | |
| Part # | Contact your sales representative for camera accessories part numbers |
| Description | Magnet mounts, lightbar mounts, and make/model specific roof/trunk mounts |

# VLP PROCESSOR

## KEY SPECIFICATIONS

| SYSTEM | |
|---|---|
| CPU | Intel Gen8 Core i7-8700T (12M Cache 2.4GHz up to 4.0GHz) |
| Memory | 2 x 8GB DDR4 2400 MHz SO-DIMM |
| LAN chipset | 9 x Intel i210-AT and 1 x i219 (iAMT9.5 w/ i5, i7 only) Gb/s Ethernet Controllers Onboard Support PXE and WOL |
| **I/O** | |
| Serial port | 3 x RS 232/422/485 (Auto Direction Control) |
| USB port | 4 x USB 3.0 Ports |
| LAN | 10 x RJ45 Ports for GbE (Optional for M12 connector and 8 x PoE total Max. 120W) |
| Video port | 3 x DP Ports |
| Wi-Fi adapter | 802.11n/g/b |
| 4G LTE / GPS | Sierra Wireless EM7511-Dual Sim Support |
| **POWER REQUIREMENT** | |
| Power input | 12V DC |
| Power protection | Automatic Recovery - Short Circuit Protection |
| Power management | Remote/Ignition connection to toggle power |
| Power off control | Power off Delay Time Setting by BIOS and Software |
| **SOFTWARE** | |
| Operating System | Ubuntu 18.04 64bit |

| GRAPHICS | |
|---|---|
| Graphics | Intel® UHD Graphics 630 |
| Resolution | Max Resolution (DP): 4096 x 2304 @ 60Hz |
| **STORAGE** | |
| Type | 2 x 2.5" Drive Bay for SATA Type HDD/SSD RAID 0, 1, 5 1 x mSATA |
| **ENVIRONMENTAL** | |
| Operational temperature | -40°F ~ 158°F (-40°C ~ 70°C), ambient w/0.6m/s airflow |
| Storage temperature | -40°F ~ 176°F (-40°C ~ 80°C) |
| Relative humidity | 10% RH ~ 90% RH (non-condensing) |
| Vibration (random) | EC60068-2-64, random, 2.5G @ 5~500Hz,1hr/axis with SSD |
| Vibration operating | MIL-STD-810G, Method 514.6, Procedural, Category 4 |
| Shock | Operating: MIL-STD-810G, Method 516.6, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD |
| Certifications | CE, FCC Class A, E13 |
| **MECHANICAL** | |
| Construction | Polycarbonate |
| Mounting | Wall-mount |
| Weight | 11.44 lbs (5.19 kgs) |
| Dimensions | 10.24 x 9.84 x 3.74 in (260 x 250 x 95 mm) |

# CARDETECTOR MOBILE

## KEY SPECIFICATIONS

| | MINIMUM HARDWARE REQUIREMENTS | RECOMMENDED HARDWARE REQUIREMENTS |
|---|---|---|
| **HARDWARE** | | |
| Processor | Intel Core i3-8145U @ 2.10GHz (or 3,847+ PassMark Score). NOTE: x86 CPUs only, No ARM CPUs | Intel Core i7-3632QM Processor (or 6,929+ PassMark Score). NOTE: x86 CPUs only, No ARM CPUs |
| Memory | 8 GB | 16 GB |
| Hard Drive | 256GB+ HDD @ 7200RPM | 256GB+ SSD or NVME |
| Network Adapter | Gigabit USB to Ethernet Adapter. NOTE: Requires USB 3.0 Port | Onboard Gigabit Ethernet Port |
| **SOFTWARE** | | |
| Operating System | Windows 8.1 64-Bit | Windows 10 64-Bit |
| **NETWORK** | | |
| Ports Utilized | LAN: 2000, 3000, 3310, 4000, 5000 \| WAN: 443, 8888 | |

# FOCUS YOUR ENFORCEMENT

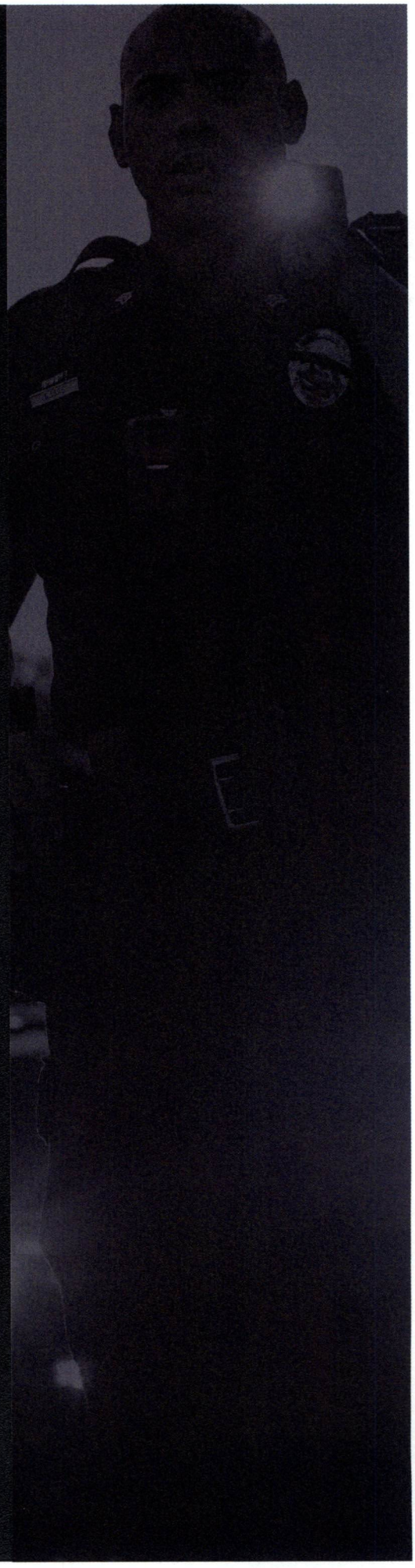
## BUILT TO KEEP COMMUNITIES SAFER

To do license plate recognition well, you need the right tools for the job. We provide the most flexibility and options for capturing license plate data with fixed, mobile, trailer and quick-deploy camera systems, video-based integration and even mobile apps. All of these are equipped with our in-house developed, industry-leading LPR algorithm that is relied upon by law enforcement agencies world-wide.

Beyond ensuring you can collect the data you need, our suite of software solutions, including Vigilant VehicleManager, combines robust hot list management and alerting options with patented search and data analytics to equip your team with the insights they need to close more cases, faster.

Our software also keeps you in complete control of your data and systems with group and user-based access control, agency-defined data retention and broad data sharing options with built in memorandum of understanding (MOU) templates for you and your partners.

Lastly, to ensure your program is most successful, your solution is backed by a team who has built our license plate recognition portfolio to be secure and designed for responsible use from the ground up. You also have access to 24/7 support and free in-person and virtual training from our trainers, all of whom were former users and want nothing more than to help you succeed.



For more information, please visit

motorolasolutions.com/L5M

MOTOROLA SOLUTIONS

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Specifications are subject to change without notice 10-2022 [JP04]

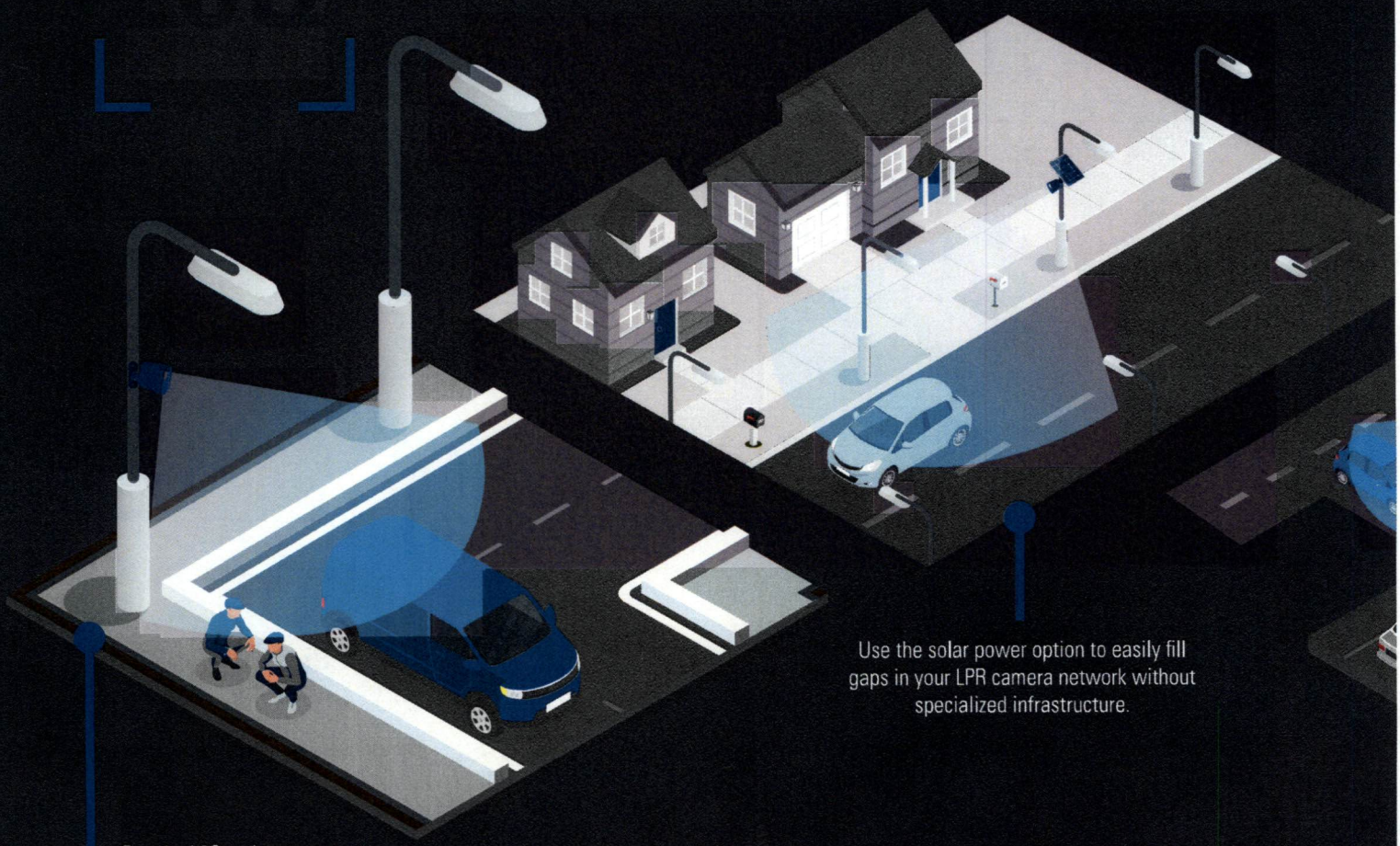
# FIXED LICENSE PLATE RECOGNITION:

## A VISUAL GUIDE

With new solutions entering the market for fixed and quick-deploy license plate recognition, here's some guidance to help you better understand how they work.

### QUICK-DEPLOY LPR CAMERA SYSTEM

Collect targeted, tactical LPR data to a
event or fill gaps in your LPR network
This solar, AC or battery-powered cam
minutes anywhere with cellular covera



Use the solar power option to easily fill gaps in your LPR camera network without specialized infrastructure.

Run the L6Q on battery power and deploy it covertly to gather specific evidence for an investigation.