



FIXED LPR CAMERA SYSTEM

Missed scans mean putting people and investigations at risk. The L5F fixed license plate recognition (LPR) camera system is a high-performance solution meant for those who never want to miss a passing license plate because they never want to let a threat pass undetected, never want to miss a potential lead and never want to see a case go cold.

With a new, industry-leading image sensor, the L5F 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 an extended range of lens lengths means you have more deployment flexibility to scan vehicles at distances near and far.

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 L5F seamlessly connects with our suite of software solutions, including Vigilant VehicleManager where data can be further operationalized with patented search capabilities and analytics.





SCAN MORE. KNOW MORE.



CAPTURE MORE, ACCURATE DATA

Collect license plate, make and model information even on vehicles moving at the highest speeds and in the darkest conditions.



POWER THROUGH HIGH TRAFFIC

With a processor that supports up to four cameras scanning at up to 60 FPS each, you can be confident no vehicle passes unseen.



DEPLOY CAMERAS FAR & WIDE

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.

Stay in the know 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.



L5F LICENSE PLATE READER

DETECT

KEY SPECIFICATIONS

CAMERA

Focal Length	Capture Distance	Capture Range*
8mm	14 ft	6 - 27 ft
16mm	40 ft	25 - 55 ft
25mm	70 ft	55 - 85 ft
35mm	95 ft	85 - 105 ft
50mm	115 ft	105 - 125 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 and 750nm options	

VIDEO STREAMING

ONVIF compliant	H.264/H.265, M JPEG
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HOUSING

Size	6.9 x 6.5 x 2 in (175 x 165 x 51 mm)
Mounting	3-axis precision aim lock
Color	Matte black
Weight	3.5 lbs (1.59 kgs)

ENVIRONMENTAL

Environmental protection protection	IP68 / NEMA4 compliant
Operational temperature	-40°F to 140°F (-40°C to 65°C)
Connector	IP67 rated

ELECTRICAL

Power consumption	12.95W nominal
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	Single Fixed Camera Mount/Bracket



*Up to 2 lanes of traffic coverage in most scenarios.



VLP PROCESSOR

ANALYZE

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 card support

POWER REQUIREMENT

Power input	12V AC
Power protection	Automatic recovery and 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 64-bit
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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
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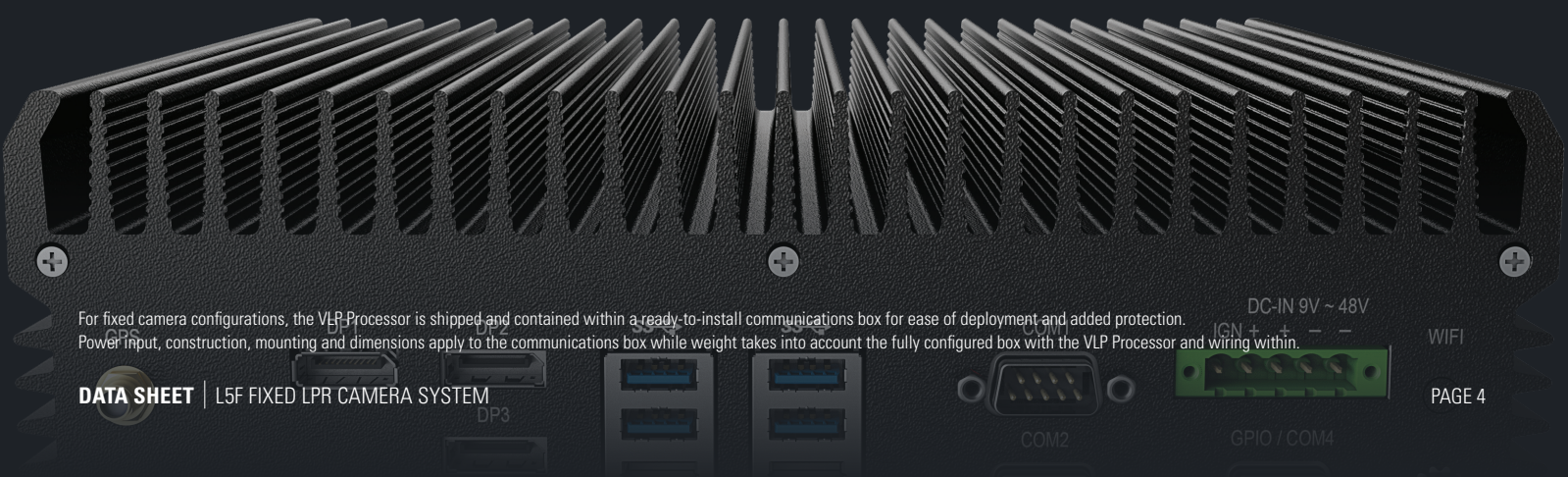
ENVIRONMENTAL

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 or pole mount
Weight	34.5 lbs (15.65 kgs)
Dimensions	14.02 x 12.01 x 7.01 in (356 x 305 x 178 mm)

For fixed camera configurations, the VLP Processor is shipped and contained within a ready-to-install communications box for ease of deployment and added protection. Power input, construction, mounting and dimensions apply to the communications box while weight takes into account the fully configured box with the VLP Processor and wiring within.





TARGET ALERT SERVICE (TAS)

RESPOND

KEY SPECIFICATIONS

	MINIMUM HARDWARE REQUIREMENTS	RECOMMENDED HARDWARE REQUIREMENTS
HARDWARE		
Processor	Intel(R) Core(TM) i3-4150 CPU @ 3.50GHz 3.50GHz	Intel(R) Core(TM) i7-4770 CPU @ 3.40GHz 3.39GHz
Memory	8GB	16GB
Hard Drive	256GB	500GB
SOFTWARE		
Operating System	MS Windows 10 (Professional Version – 64 bit), Win 8.1, Windows Server 2012 RC2, 2016, 2019	MS Windows 10 (Professional Version – 64 bit), Windows Server 2012 RC2, 2016, 2019
NETWORK		
Ports Utilized	CDFS Socket: 1234 LEARN, CDMS: TCP Port 80, 443 (Wireless to LEARN)	CDFS Socket: 1234 LEARN, CDMS: TCP Port 80, 443 (Wireless to LEARN)
Network Card	1.0 Gbps integrated NIC (no USB adapter)	1.0 Gbps integrated NIC (no USB adapter)



*Dependencies required to run TAS Client:
 Microsoft .NET Framework 4.5.2 full
 Microsoft Visual C++ 2005 SP 1 Redistributable Update (x86)
 Microsoft Visual C++ 2008 SP 1 Redistributable Update (x86)
 Microsoft Visual C++ 2015 Update 3 Redistributable Package (x86)



**SCAN MORE
KNOW MORE**

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 - a part of the LEARN platform, 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 camera management, 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, on-demand and virtual training from our expert trainers, all of whom were former users and want nothing more than to help you succeed.

For more information, please visit:

www.motorolasolutions.com/L5F

