CT-45

Powerful All-In-One LPR Camera for Vehicle Access Management and Control

KEY FEATURES:

- Dual lens camera – Infrared & Color
- Captures plates as close as 10 feet
- Supports PoE++ and redundant DC power
- Auto-Focus & Motorized Zoom
- Software and Hardware trigger
- Wiegand interface to 3rd party security systems
- Wi-Fi capability for easy setup
- Video stream provided in real time (RTSP)
- Powerful on-board LPR processing

The CT-45 camera is optimized for multi-ranged LPR applications such as:

- Car Wash
- Parking garages
- Gated communities
- Airports
- Hospitals
- Mixed use lots
- Vehicle access control
- Free-flow, Gateless applications
- Industrial Applications
- And many more…

High Quality Imaging:

The CT45 camera provides HD video for high-accuracy LPR for vehicle access control systems.

The 2MP sensor provides detailed images of passing license plates. The high resolution enables capture of the most challenging plates. It supports both Color and IR images, and the system is designed so that the camera and infra-red illumination work in conjunction to provide high quality pictures of the license plates on a 24-hours basis.

The camera is based on a powerful quad core 1.2GHz processing platform and uses Linux operating system for maximum stability and robustness.

Powerful onboard OCR Recognition Engine utilizing deep learning:

All the HD video is processed inside the camera housing by the Jet Recognition Engine using our latest advances in deep learning, with no need to send high bandwidth video across the network to high-powered external process PCs. The engine is supported full-time by our in-house development team.

Vehicle Access Control Tracking Software:

When combined with the optional Access Control Tracking software, users are able to experience a complete vehicle management and access control system. The system allows:

- Space counting
- Automated access / barrier control
- LED sign integration
- Alarm management
- Ticketing integration

Part No. Information:

CT45 LPR Camera   10-82 ft range (IR) and OV

Technical Information

License Plate Recognition

Recognition Distance	:	From 10 ft to 82 ft (motorized lens for zoom and focus control)
Coverage Width	:	Up to 23 ft
Recognition Engine	:	TagMaster Jet Recognition Engine - a Linux based embedded real-time AI
CPU	:	Quad core Cortex A35 processor @ 1.2GHz
Recognition Framerate	:	25 fps
Recognition Direction	:	Both (Front and rear)
Max Vehicle Speed	:	Up to 40mph
Triggering	:	Free running (no trigger) – Software Trigger – Hardware Trigger

Video and Illumination Features

Lighting	:	10 strong IR LEDs (850nm)
CMOS	:	HD 2MPixels 1/2.8" sensor
Compression	:	H.264 or MJPEG
Transport Protocol	:	RTSP (over http), TCP/IP and FTP

Electrical Characteristics

Power Supply	:	24-48V DC, or Power Over Ethernet (recommended PoE++, IEEE 802.3bt)
Power Consumption	:	Average 25W

Mechanical Characteristics

Weight	:	6.5 lbs.
Dimensions	:	4.0 x 7.0 x 11.4 inches (H x W x D) - (incl. sunshield)
Material	:	Aluminum
Coating	:	Traffic grey, RAL 7043
Water & Dust Protection	:	IP66
Connectors	:	Amphenol RJ45, Amphenol 8-pin M12, SMA connector for Wi-Fi antenna
Operating & Storage Temperature	:	-40°F to +140°F (-40°C to +60°C), 0%-95% Relative Humidity

Security, Environmental and Technical Certifications

Security	:	HTTPS
Photobiological Safety	:	IEC 62471
Homologation	:	IEC 62368-1, Electrical Safety General
		IEC 60950-22, Electrical Safety Outdoor
		EN 55022:2010, Emissions
		EN 55024:2010, Immunity
		IEC 60068-2-27 Ea, Shock
		IEC 60068-2-64 Fh, Vibration
		UL94 HB, Flammability
		2002/95/EC, 2011/65/EU, 2015/863, RoHS/RoHS2/RoHS3
Time Synchronization	:	NTP protocol

Data Input and Output

TCP/IP	:	Yes
HTTP	:	Yes
FTP	:	Yes
Ethernet	:	10/100Mbps Ethernet interface, PoE++, Wi-Fi for easy setup
Wiegand	:	Built-in support for Wiegand
Input	:	1
Output	:	2 relay dry contact
Other Protocols	:	REST, XML, JSON and other formats through templates

The information in this document is subject to change without prior notice.

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