ADVANCED ENGINEERING UK TECHNOLOGY

vantage
keeping you safe

ENTRANCE MANAGEMENT SYSTEM

VV-VM403EBLPS-R/LPMSK6
ANPR CAMERA WITH INTEGRATED BARRIER GATE



FEATURES

- Integrated design combines 5MP ANPR camera, automatic barrier gate, 12.1-inch LCD display and dual supplementary lights in single unit
- Embedded video analytics with manufacturer-stated average vehicle detection and licence plate recognition rates exceeding 99% across all-weather conditions
- Continuous image capture technology improves vehicle capture performance
- Motorised 2.7–13.5 mm autofocus lens with software-controlled adjustment
- Supports WDR, strong-light suppression, 3D noise reduction and automatic supplementary lighting for clear image capture
- LCD displays licence plate numbers, entry/exit times and parking amount information
- Built-in speaker supports audio announcements
- Supports video-based or vehicle-detector triggering
- Barrier arm automatically reverses upon encountering resistance during closing

CE FC RoHS

TECHNICAL SPECIFICATIONS

VV-VM403EBLPS-R/LPMSK6

ANPR Camera	Image Sensor	1/2.7” electronic rolling-shutter sensor
	Camera Resolution	5MP; 2560 × 1944 pixels
	Lens	2.7–13.5 mm motorised autofocus
	Capture Lane Width	≤4.0 m
	Vehicle Detection Rate	>99% average across all-weather conditions
	Licence Plate Recognition Rate	>99% average across all-weather conditions
	Image Enhancement	WDR, strong-light suppression, 3D noise reduction, white balance and night-time enhancement
	Exposure / Gain	Automatic exposure and automatic gain control
	Supplementary Lighting	Automatic control according to ambient brightness
	Video Compression	H.264 / H.265
	Operating Noise	≤65 dB
	Image Format	JPEG
	Trigger Method	Video stream or vehicle detector
	Output Information	Licence plate colour, licence plate number and vehicle image
Display & Audio	Display	12.1” LCD
	Display Resolution	1920 × 1080 pixels
	Display Brightness	Automatic adjustment according to ambient light
	Display Supply	DC 12 V
	Display Information	Parking amount, licence plate number and entry/exit time
	Speaker	8 Ω / 10 W
Controller & Interface	Processing Module	Raspberry Pi CM4; CM4002016
	RAM	2 GB
	Storage	16 GB eMMC
	Carrier Board Dimensions	109.9 × 68.9 mm
	Interfaces	4 × USB, HDMI and Type-C 5 V power input
	Network Interface	10/100 Mbps auto-adaptive RJ45 Ethernet
	Vehicle Access Management	Whitelist and blacklist
Barrier Gate	Opening Time	1.5–6 seconds, depending on arm configuration
	Opening Direction	Left or right
	Remote Control Distance	≤30 m
	Obstruction Response	Automatic arm reversal upon encountering resistance during closing
Supplementary Lights	Quantity	2 built-in lights
	Supply Voltage	DC 12 V
	Power Consumption	≤4 W / ≤20 W for the two listed lights
	Control Modes	Intelligent / snapshot-triggered / continuously on
Power & Environment	Input Voltage	AC 100–240 V
	Maximum Power Consumption	≤248 W
	Operating Temperature	-30°C to +70°C
	Operating Humidity	<95%
	Cooling	Fan-assisted; DC 12 V, 4800 rpm
	Cabinet Dimensions	376 × 320 × 1243 mm (L × W × H)

*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Product image, weights and measurements are approximate and may vary.

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BARRIER ARM CONFIGURATIONS:

OPERATING TIME BARRIER ARM TYPE	MAXIMUM ARM LENGTH
2 seconds Round-section straight / articulated arm	3.5 m
3 seconds Round-section straight / articulated arm	4.5 m
4 seconds Oblong-section straight arm	5.0 m
5 seconds Oblong-section straight arm	5.5 m
6 seconds Two-fence arm	4.5 m
6 seconds Oblong-section straight arm	6.0 m

VANTAGE INTEGRATED SECURITY SOLUTIONS LIMITED

(AN ISO 9001 : 2008, ISO 14001 : 2004 CERTIFIED COMPANY)

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