

IZA9000RT Technical Datasheet

ALPR All-in-one Camera System

Rev. A1



Key Features and Benefits

- ✓ Designed for Tolling, ITS and Traffic Enforcement Applications
- ✓ Powered by Windows 11 IoT Enterprise LTSC 2024
- ✓ Dual sensor provides multiple paths to perfect ALPR reads
- ✓ High resolution sensors for outstanding image quality
- ✓ Multi-shutter technology for greater read accuracy and capture under all conditions
- ✓ Zoom lens - the key to optimized tuning
- ✓ Anti-glare technology for all lighting environments
- ✓ Wide temperature range - operating from -22°F to 140°F [-30°C to 60°C]
- ✓ IP67 ingress protection against extreme moisture
- ✓ IK10 vandal-proof casting for efficient, worry-free operation
- ✓ NDAA Section 889 compliant



Specifications

Item		Specification
Supported Analytics	LPR Analytics	Plate Recognition, State Identification, Plate Type Classification
Field of View (FOV)		16 ft (H) x 10 ft (V) [4.9 m x 3.0 m]
Max Vehicle Speed		Up to 120 mph [193 km/h]
LPR Capture Distance* (for U.S.A. plates)		<ul style="list-style-type: none"> S - Short distance, 16-39 ft [5-12 m] L - Long distance, 33-65 ft [10-20 m]
LED Illumination	Wavelength	<ul style="list-style-type: none"> DR - Deep Red IR - Infrared
	Beam Angle	<ul style="list-style-type: none"> S - 40°x16° L - 15°x15°
LPR Camera OV Camera	Shutter Type	Global
	Sensor	Sony IMX264
	Resolution	3.8 MP - 2466 (H) x 1536 (V) 0.0 Lux for LPR camera
	Lens	12-50 mm; Manual Zoom and Focus
Processor	CPU	Intel ATOM x6000
	RAM	8 GB
	Data Storage	20 GB
	Operating System	Windows 11 IoT Enterprise LTSC 2024 (10 years Long-Term Support)
Environmental	Ingress Protection	IP67
	Operating Temperature	-22°F to 140°F [-30°C to 60°C]
	Storage Temperature	-22°F to 158°F [-30°C to 70°C]
	Humidity	0% - 90% RH, non-condensing

Item		Specification
Certifications	EMC	FCC Part 15, subpart B; CE
	RoHS	RoHS
	Impact Protection	IK10-rated casting (Vandal-proof)
	Eye Safety	IEC62471 Group 1
	NDAAs	NDAAs Section 889 compliant
Physical	Dimensions	(W x H x D): 6.7" x 4.7" x 17.7" [171 mm x 119 mm x 451 mm]
	Weight	9.7 lbs [4.4 Kg]
	Color	White
	Front Window	Water and dust repellent glass with AR coating
Interface	Ethernet	Ethernet 100/1000 BaseT
	Connectors	LAN - Waterproof outdoor RJ-45 connector
		Power/Signals - Waterproof outdoor M12 connector
Digital Outputs	<ul style="list-style-type: none"> LPR Strobe (+/-): 5V isolated OV Strobe (+/-): 3.3V non-isolated RS485 (A/B) 	
Power	Input Voltage	24 VDC +/- 10%, Class 2 Low-Voltage
	Power Consumption	25 W
Accessories Included		Sunshade
		Waterproof outdoor RJ-45 cable connector**
		15 ft LAN Cable (IZCAB-ORT-LAN)***
		Waterproof outdoor M12 cable connector**
		15 ft Power/Signals Cable (IZCAB-ORT-PAS)***

Item	Specification
Accessories Available	DIN Rail Mount Power Supplies (IZPWR)
	Digital I/O Controller (IZIO)
	LAN Cable for IZA900ORT System (IZCAB-ORT-LAN) - different lengths
	Power/Signals Cable for IZA900ORT System (IZCAB-ORT-PAS) - different lengths
	Different mount options available
	External Illuminator (IZS Series)

* LPR Capture distance is measured from camera to plate along the road

** For part numbers IZA900ORT-X-XX

*** For part numbers IZA900ORT-X-XX-CAB15F

Ordering Information

Part Number****	Description*****
IZA900ORT-S-DR	16-39 ft (5-12 m) range, Deep Red illumination
IZA900ORT-S-DR-CAB15F	16-39 ft (5-12 m) range, Deep Red illumination, 15 ft cable set
IZA900ORT-S-IR	16-39 ft (5-12 m) range, Infrared illumination
IZA900ORT-S-IR-CAB15F	16-39 ft (5-12 m) range, Infrared illumination, 15 ft cable set
IZA900ORT-L-DR	33-65 ft (10-20 m) range, Deep Red illumination
IZA900ORT-L-DR-CAB15F	33-65 ft (10-20 m) range, Deep Red illumination, 15 ft cable set
IZA900ORT-L-IR	33-65 ft (10-20 m) range, Infrared illumination
IZA900ORT-L-IR-CAB15F	33-65 ft (10-20 m) range, Infrared illumination, 15 ft cable set

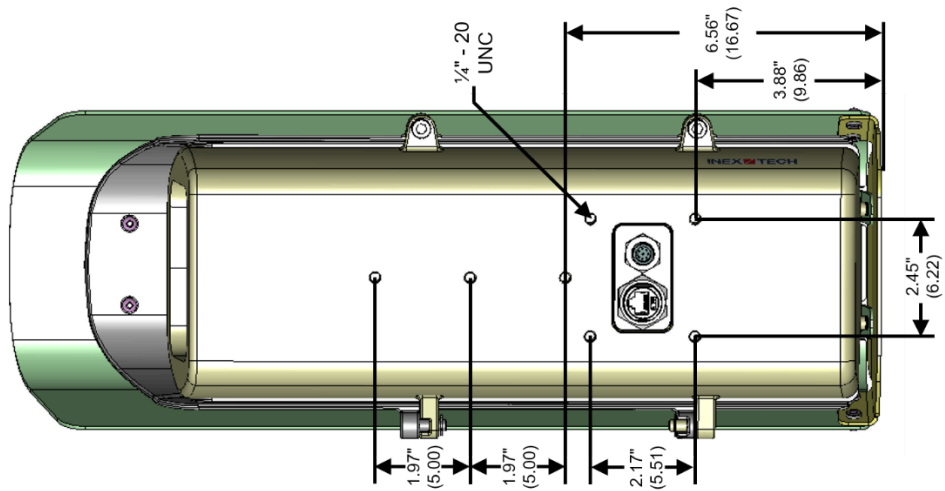
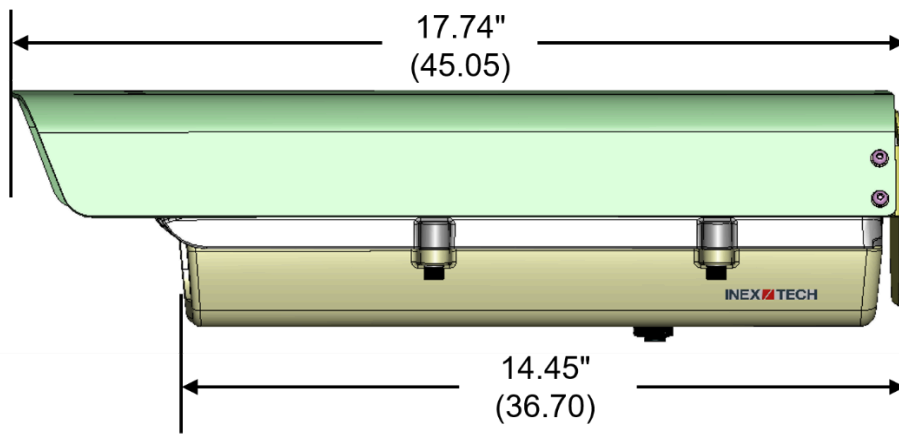
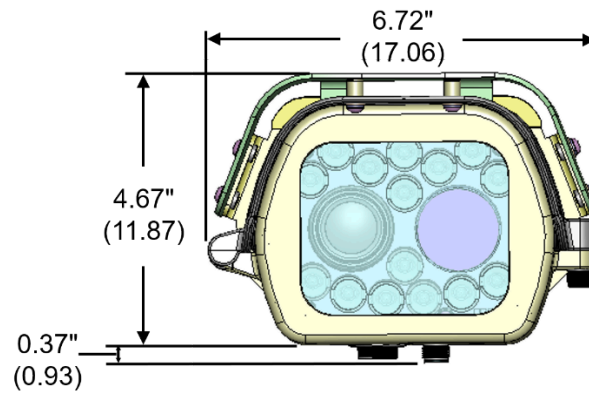
**** All models have a zoom lens

***** All models have 24 VDC input voltage; different IZCAB-ORT-LAN and IZCAB-ORT-PAS cable lengths can be ordered

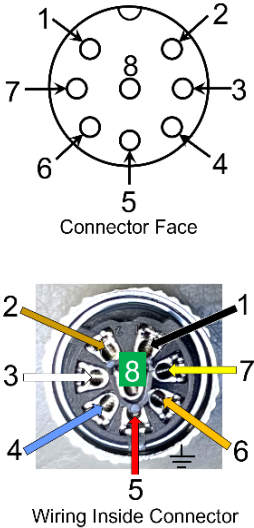

Standard Package Contents

- IZA900ORT ALPR All-in-one AI Camera System
- LAN cable or field-mountable cable connector
- Power/Signals cable or field-mountable cable connector
- Mounting adapter plate with screws to attach the plate

Dimensions (inches/cm)



Power/Signals Cable Connector Pinout

 <p>The diagram shows the connector face with pins 1 through 8 labeled. Pin 1 is at the top left, 2 at the top right, 3 at the right, 4 at the bottom right, 5 at the bottom, 6 at the bottom left, 7 at the left, and 8 in the center. Below this is a photograph of the connector's interior with wires connected to the pins: Pin 1 (Black), Pin 2 (Brown), Pin 3 (White), Pin 4 (Blue), Pin 5 (Red), Pin 6 (Orange), Pin 7 (Yellow), and Pin 8 (Green). A ground symbol is shown near pin 5.</p>	Pin	Power/Signal	Wire Color
	1	24 VDC (-) / GND	Black
	2	LPR Strobe (+)	Brown
	3	OV Strobe (-)	White
	4	LPR Strobe (-)	Blue
	5	24 VDC (+)	Red
	6	RS485 (A)	Orange
	7	RS485 (B)	Yellow
	8	OV Strobe (+)	Green
	Shield (Connector Body)	---	

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