IZA500GDFC Rev. F5 Technical Datasheet

Driver Face Capture (DFC) System

Key Features and Benefits

✓ Designed for Access Control and Security

✓ Captures detailed vehicle interior views

✓ Overcomes window reflective glare by day, and darkness at night

✓ ONVIF video recordable by any VMS

✓ Integrated with Inex LPR systems

✓ Integrated with IZCloud

✓ NDAA Section 889 compliant

IZA500GDFC General System Specifications

Item	Specification
Face Camera Capture Distance (F)	10-26 ft (3-8 m)
LPR Camera Capture Distance (D)	8-24 ft (2-7 m)
Installation Height	5 ft (1.5 m)
Vehicle Speed	Up to 30 mph (48 km/h)
Video Output	ONVIF compatible

Note: Dark coated glass decreases system performance

Typical Lane Design
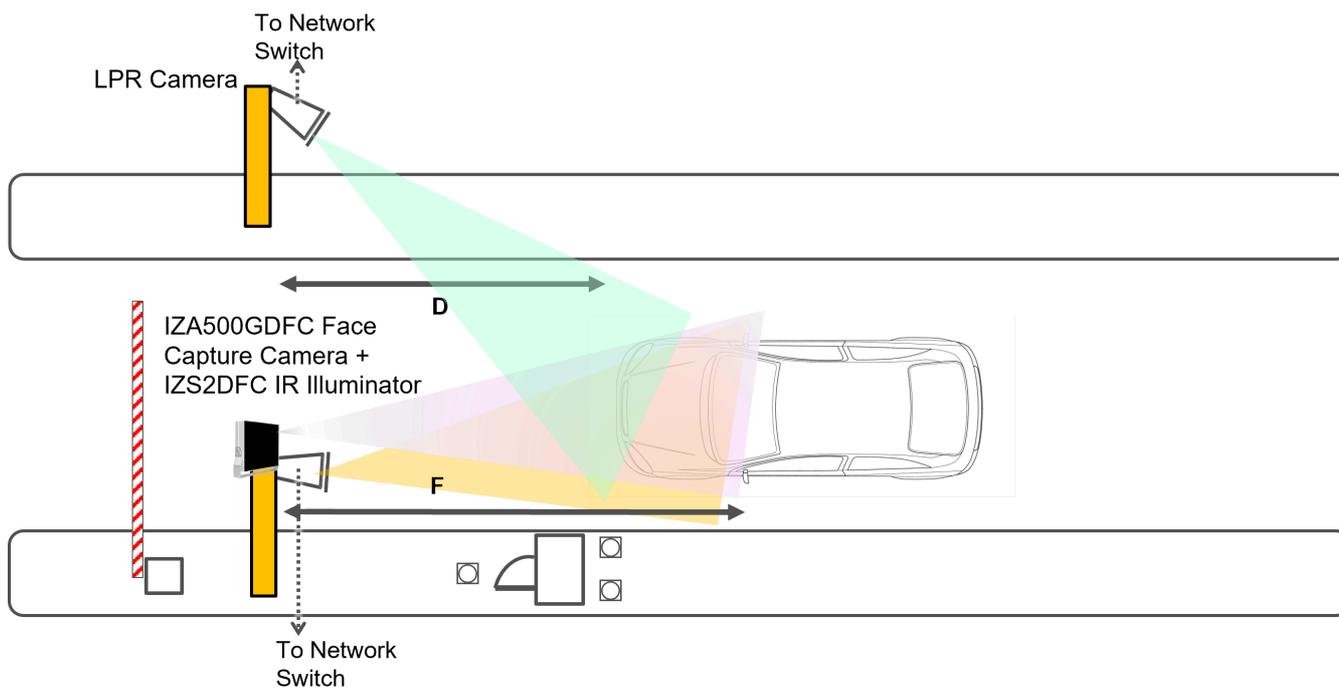
D: LPR Capture Distance: 8-24 ft

F: Face Capture Distance: 10-26 ft

IZA500GDFC Camera System Specifications

Item		Specification
Field of View (FOV)		12 ft (H) x 8 ft (V) (3.7 x 2.4 m)
LPR Illumination	Number of LEDs	15 high power LEDs
	Wavelength	Deep Red (DR)
	Beam Angle	40°x16°
LPR Camera	Shutter Type	Global
	Sensor	Sony IMX265
	Resolution	2 MP - 1920 (H) x 1080 (V)
	Lens	6-22 mm; Motorized Zoom and Auto-focus
	Video Compression	MJPEG, H.264, H.265
	Video Streaming	RTSP Protocol
OV Camera	Shutter Type	Rolling
	Sensor	Sony IMX290
	Resolution	2 MP - 1920 (H) x 1080 (V)
	Lens	5-50 mm; Motorized Zoom and Auto-focus
	Video Compression	MJPEG, H.264, H.265
	Video Streaming	RTSP Protocol
AI Processor	GPU	NVIDIA Maxwell architecture with 128 CUDA® cores
	CPU	Quad-core ARM Cortex-A57 MPCore processor
	RAM	4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s
	System Storage	SSD, 64 GB
	Data Storage	SSD, 64 GB** ** 64 GB minimum guaranteed
	Operating System	NVIDIA Jetson Linux (L4T), JetPack 4.6.6
	RTC Battery	Maintains real-time clock date and time for 4-6 hours
		Rechargeable; Full charge-up time: 12 hours

Item		Specification
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% - 95% RH
Certifications	EMC	FCC Part 15, subpart B; CE
	Interoperability	ONVIF compliant, Profile S
	RoHS	RoHS
	Impact Protection	IK10-rated casting (Vandal-proof)
	Eye Safety	IEC62471 Group 1
	NDAA	NDAA Section 889 compliant
Physical	Dimensions	(W x H x D) 6.7" x 4.7" x 17.7" (171 x 119 x 451 mm)
	Weight	9.0 lbs (4.1 kg)
	Color	White
Interface	Ethernet	GigE Ethernet (10/100/1000M)
	Cables	LAN - 6.6 (2 m) cable included with camera, terminated with a male RJ-45 connector; can be extended with: CAT 6, shielded Ethernet cable, 4 pairs, 22 AWG, max. length 328 ft (100 m), OD 5.5-7.9 mm
		Power/Signals (PAS) - 6.6 (2 m) cable included with camera; can be extended with: 22 AWG, OD 3.0-7.3 mm • 3-wire power cable, shielded with a polyethylene jacket; ends terminated with metal rings • Digital input (trigger) signal wires and strobe output connections (see next items)
	Digital Inputs (Trigger)	• Trigger Dry: White (+), Green (-) • Trigger Wet: Green (+5-12 V), Blue (GND)
	Strobe Output	• Strobe Output: Orange (+), Brown (-)
Power	Input Voltage	24 VDC +/- 10%, Class 2 Low-Voltage
	Power Consumption	25 W
Accessories Included		Sunshade

IZS2DFC Illuminator Specifications

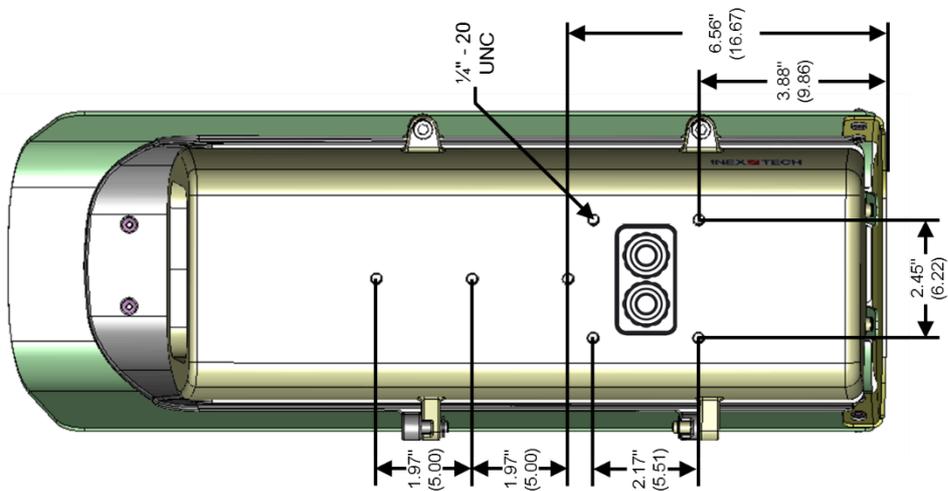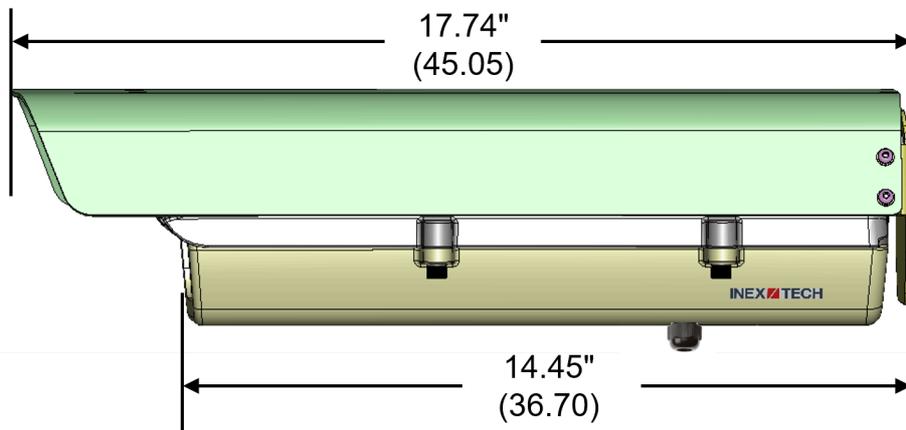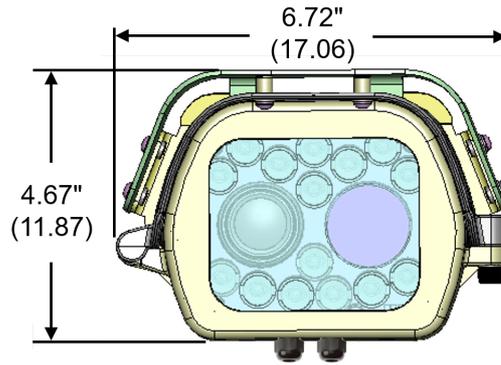| Item		Specification
LED Illumination	Type	High power LEDs
	Flash Activation	Activated by strobe input (3.3 - 24 VDC, opto-isolated)
	Wavelength	Deep Red (DR)
	Number of LEDs	60
	Beam Angle (HxV), degrees	H10xV10
Environmental	Ingress Protection	IP66
	Operating Temperature	-13°F to 140°F (-25°C to 60°C)
	Humidity	0% to 90% RH
Certifications	EMC	FCC Part 15, subpart B; CE
	RoHS	RoHS
	Eye Safety	IEC62471: • DR wavelength model: Group 1
	NDAA	NDAA Section 889 compliant
Physical	Dimensions (W x H x D)*	11.7 x 10.7 x 3.6 in (296 x 271 x 91 mm)
	Unit Weight*	6.8 lbs (3.1 kg)
	Material	Anodized Aluminum
	Color	Silver
Interface	Configuration Communication Protocol	RS485
	Connectors	Power - 2-pin male connector
		Signals - 6-pin male connector
	Strobe Input	3.3 - 24VDC, opto-isolated

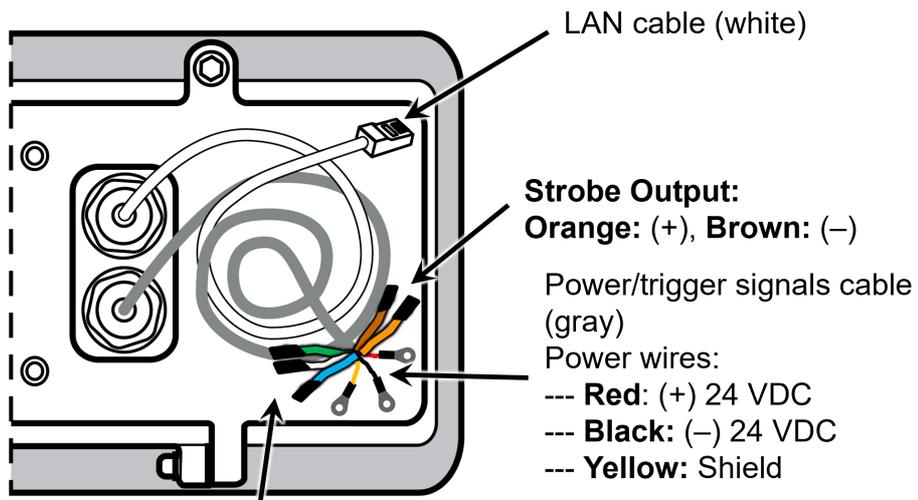| Item		Specification
Power	Input Voltage	24 VDC
	Power Consumption (measured with 0.5 ms pulse width; 24 VDC input)	• 50W at 60 Hz • 25W at 30 Hz
Accessories Included		2-axis outer pan/tilt adjustment bracket
		Power cable, 15 ft (4.6 m)
		Signals cable, 15 ft (4.6 m)

* Including outer pan/tilt adjustment bracket

Ordering Information

Product	Available Part Numbers	Product Description
IZA500GDFC-1L	IZA500GDFC-1L	All-in-one AI Driver Face Capture (DFC) camera kit for single-lane use. Includes: • IZA500GDFC Camera System: AI-enabled camera for precise driver face capture • IZS2DFC Strobe Illuminator: Windshield-penetrating illumination for vehicle interiors • Mounting Hardware (x2): Dual sets for camera and illuminator installation • Power Supply: A power source for the camera and illuminator
IZCLOUD-DFC-1S or IZCLOUD-DFC-1C	IZCLOUD-DFC-1S or IZCLOUD-DFC-1C	IZCloud SaaS Subscription; select one of these options: • IZCLOUD-DFC-1S: 1 year IZCloud Driver Face Capture (DFC) Video License, provided as SaaS; Free 14-day history in cloud storage; Pricing based on number of parking spaces • IZCLOUD-DFC-1C: 1 year IZCloud Driver Face Capture (DFC) Video License, provided as SaaS; Free 7-day history in cloud storage; Pricing based on number of video channels

IZA500GDFC Dimensions (inches/cm)

6.72"
(17.06)

4.67"
(11.87)

17.74"
(45.05)

14.45"
(36.70)

INEX▨TECH

¼" – 20
UNC

6.56"
(16.67)

3.88"
(9.86)

2.45"
(6.22)

1.97"
(5.00)

1.97"
(5.00)

2.17"
(5.51)

INEX▨TECH

IZA500GDFC LAN and Power/Signals Cable Details

LAN cable (white)

Strobe Output:
Orange: (+), **Brown:** (−)

Power/trigger signals cable (gray)
Power wires:
--- **Red**: (+) 24 VDC
--- **Black:** (−) 24 VDC
--- **Yellow:** Shield

Camera trigger wires (shipped with insulated ends)
--- **Trigger Dry:** White (+), Green (-)

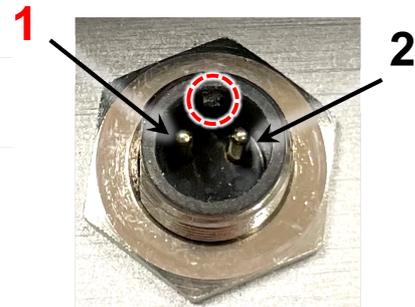--- **Trigger Wet:** Green **(**+5-12 V), Blue (GND)
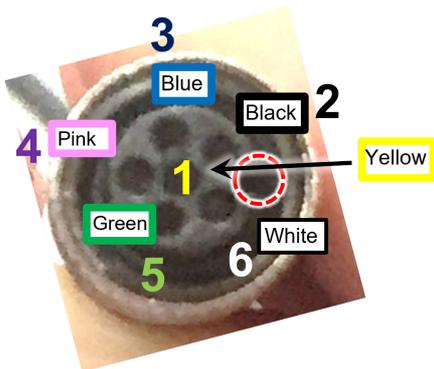
IZS2DFC Dimensions (mm)
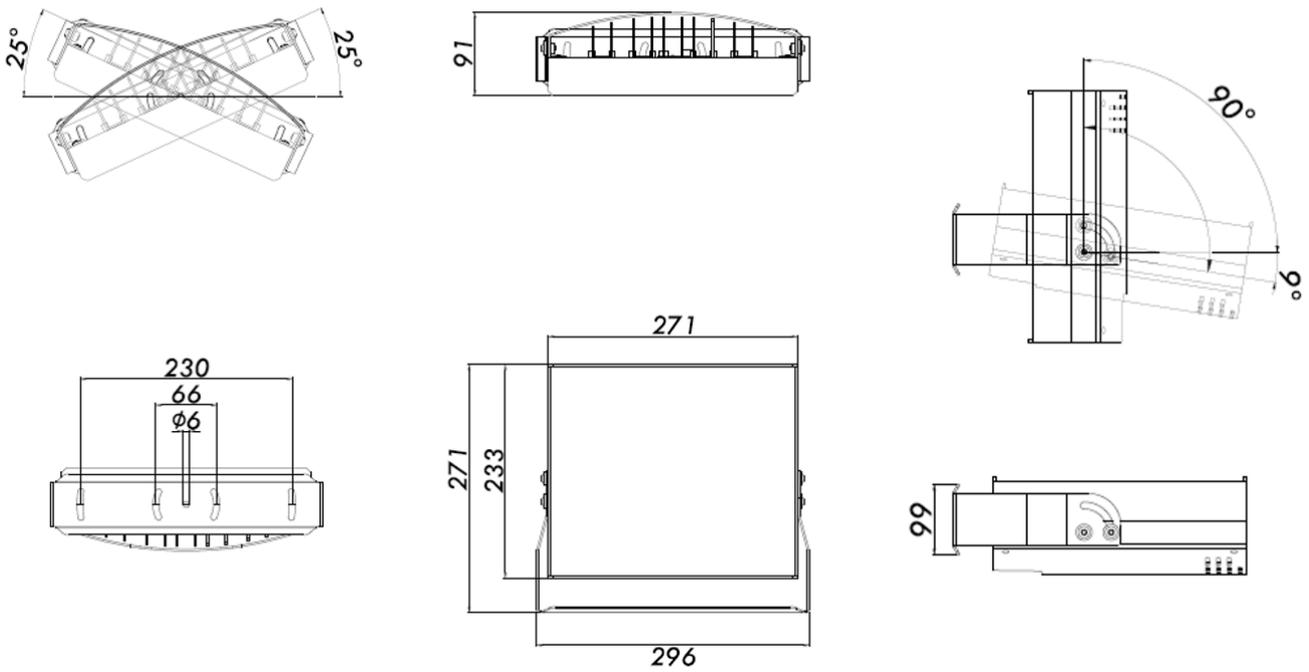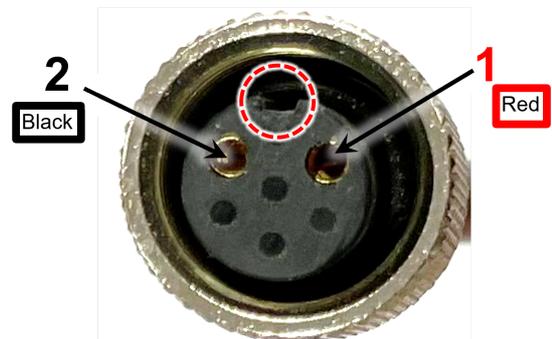

IZS2DFC Connector Pinouts
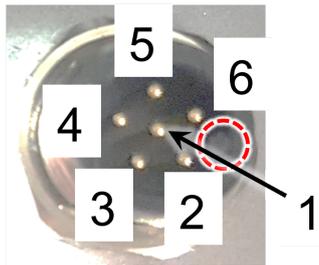
Connector notches indicated by ⊙

Pin1 : RED : 24 VDC input
Pin2 : BLACK : Power GND

Pin1 : Yellow : RS485 (+) Input
Pin2 : Black : RS485 (-) Input
Pin3 : Blue : Strobe Input GND
Pin4 : Pink : Unused
Pin5 : Green : Unused
Pin6 : White : Strobe Input (+)

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