

# IZA500GDFC Rev. F5 for Security: 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

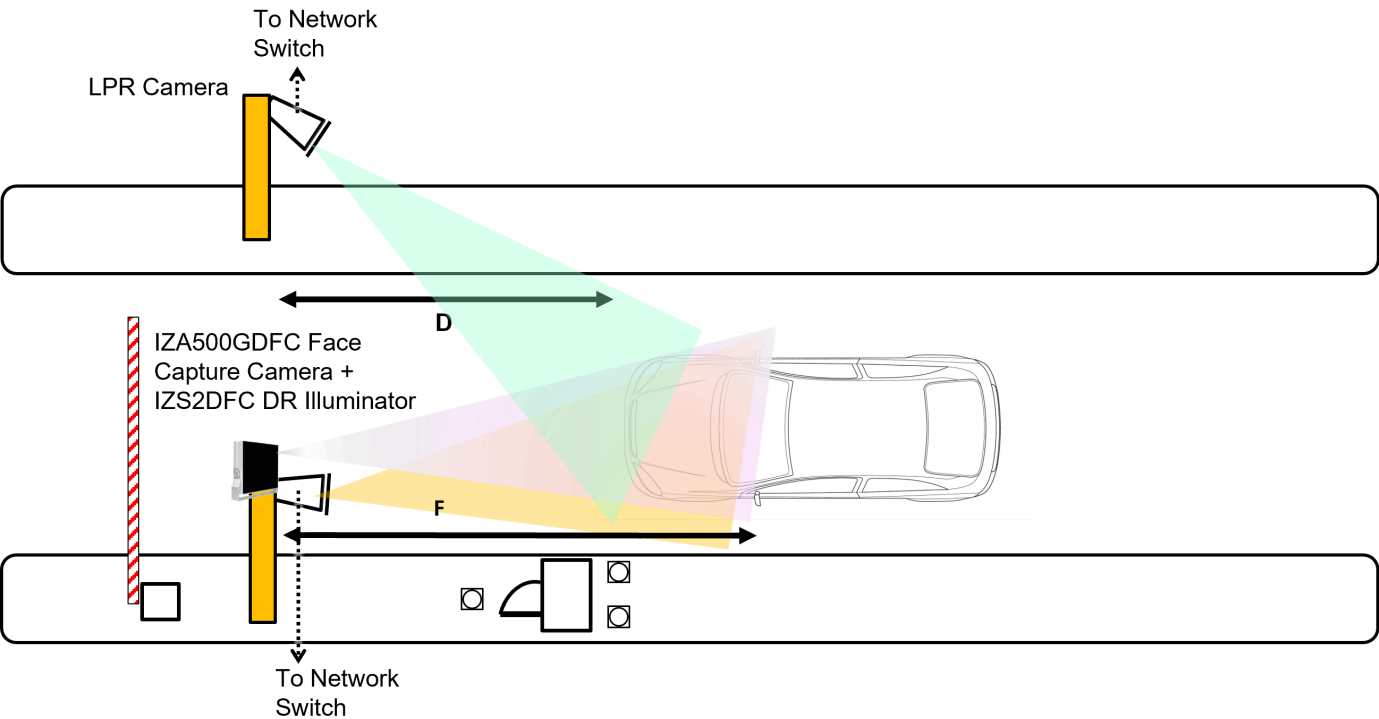


# IZA500GDFC General System Specifications

| 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                          |

| Item           |                       | Specification                                         |
|----------------|-----------------------|-------------------------------------------------------|
| 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**<br>** 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           |
| 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                                                 |

| Item                 |                          | Specification                                                                                                                                                                                                                                                                                                                                    |
|----------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:<br>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 <ul style="list-style-type: none"> <li>3-wire power cable, shielded with a polyethylene jacket; ends terminated with metal rings</li> <li>Digital input (trigger) signal wires and strobe output connections (see next items)</li> </ul> |
|                      | Digital Inputs (Trigger) | <ul style="list-style-type: none"> <li>Trigger Dry: White (+), Green (-)</li> <li>Trigger Wet: Green (+5-12 V), Blue (GND)</li> </ul>                                                                                                                                                                                                            |
|                      | Strobe Output            | <ul style="list-style-type: none"> <li>Strobe Output: Orange (+), Brown (-)</li> </ul>                                                                                                                                                                                                                                                           |
| 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                                            |

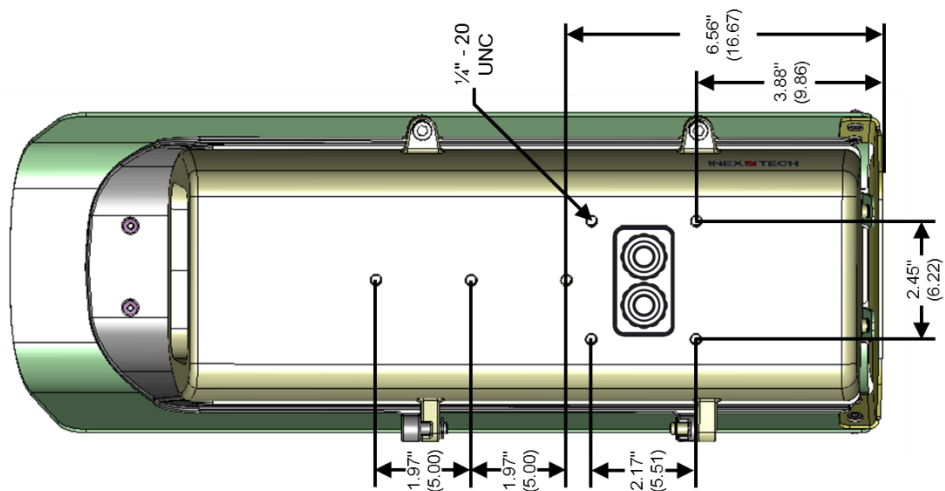
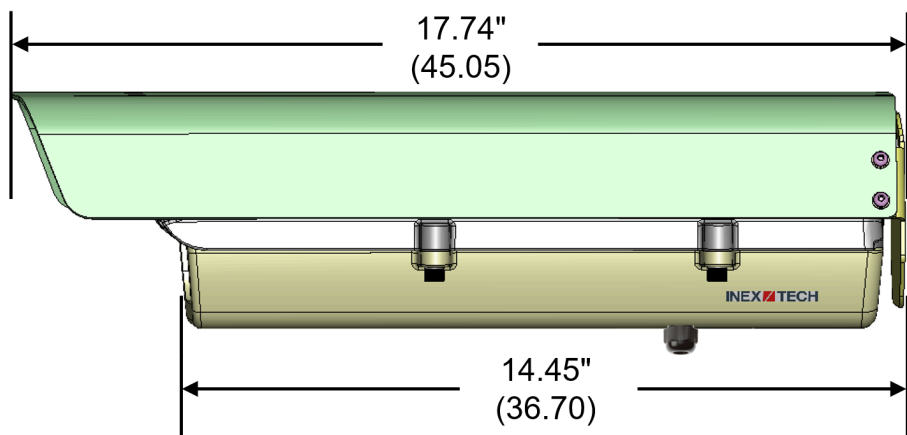
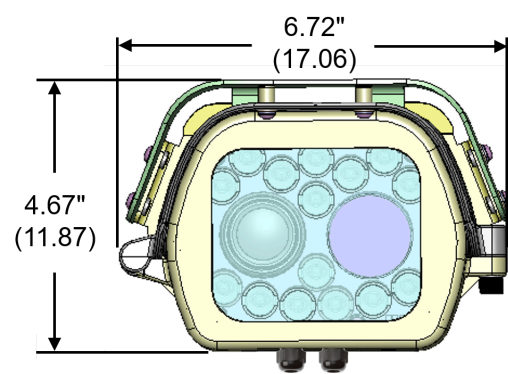
| Item                 |                                                                    | Specification                                                                            |
|----------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Certifications       | EMC                                                                | FCC Part 15, subpart B; CE                                                               |
|                      | RoHS                                                               | RoHS                                                                                     |
|                      | Eye Safety                                                         | IEC62471: <ul style="list-style-type: none"> <li>DR wavelength model: Group 1</li> </ul> |
|                      | 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                                                               |
| Power                | Input Voltage                                                      | 24 VDC                                                                                   |
|                      | Power Consumption (measured with 0.5 ms pulse width; 24 VDC input) | <ul style="list-style-type: none"> <li>50W at 60 Hz</li> <li>25W at 30 Hz</li> </ul>     |
| 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

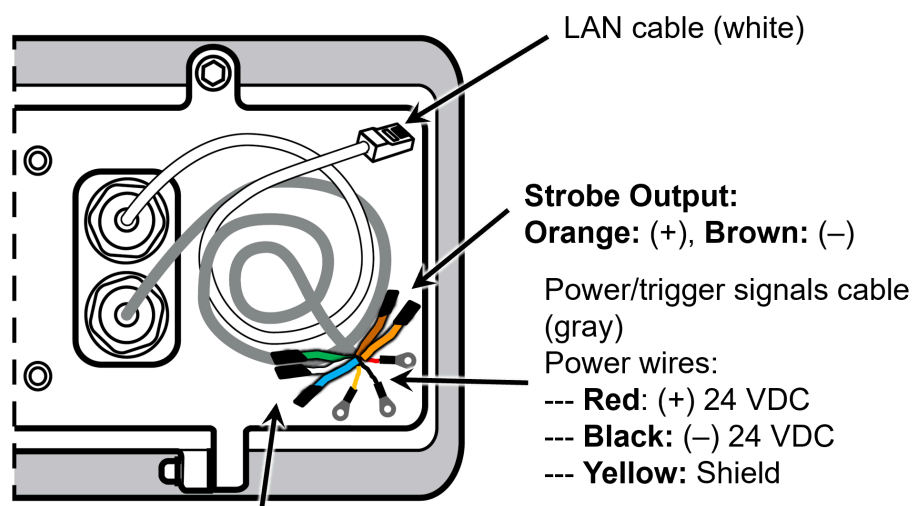
| Product                                | Available Part Numbers                 | Product Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IZA500GDFC-1L                          | IZA500GDFC-1L                          | <p>All-in-one AI Driver Face Capture (DFC) camera kit for single-lane use. Includes:</p> <ul style="list-style-type: none"><li>• IZA500GDFC Camera System: AI-enabled camera for precise driver face capture</li><li>• IZS2DFC Strobe Illuminator: Windshield-penetrating illumination for vehicle interiors (quantity: 1)</li><li>• Mounting Hardware (x2): Dual sets for camera and illuminator installation</li><li>• Power Supply: A power source for the camera and illuminator</li></ul> |
| IZCLOUD-DFC-1S<br>or<br>IZCLOUD-DFC-1C | IZCLOUD-DFC-1S<br>or<br>IZCLOUD-DFC-1C | <p>IZCloud SaaS Subscription; select one of these options:</p> <ul style="list-style-type: none"><li>• 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</li><li>• 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</li></ul>                  |

IZA500GDFC Dimensions (inches/cm)





## IZA500GDFC LAN and Power/Signals Cable Details

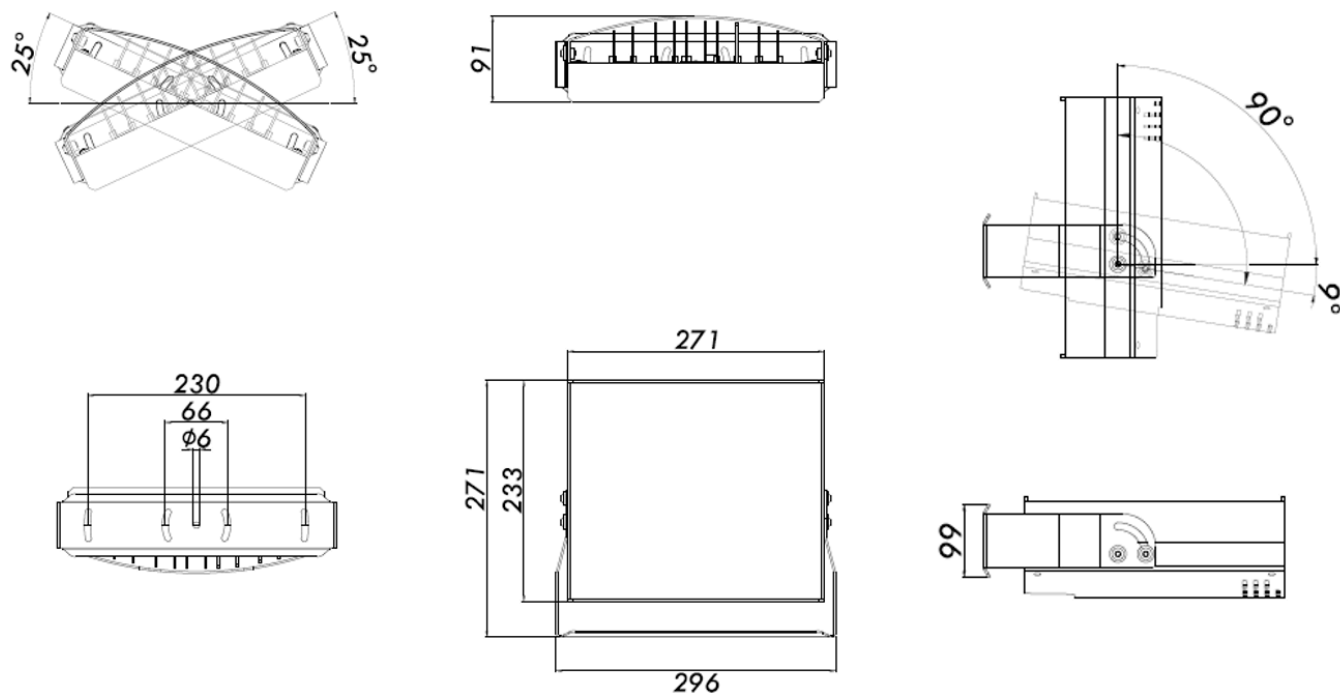


Camera trigger wires (shipped with insulated ends)

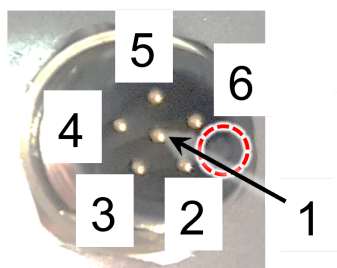
--- **Trigger Dry:** White (+), Green (-)

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

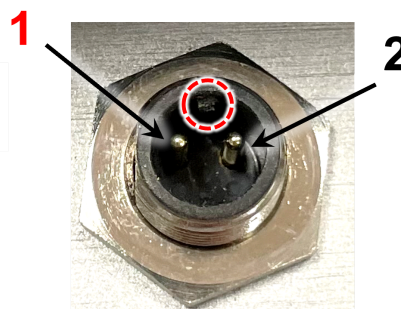
## IZS2DFC Dimensions (mm)



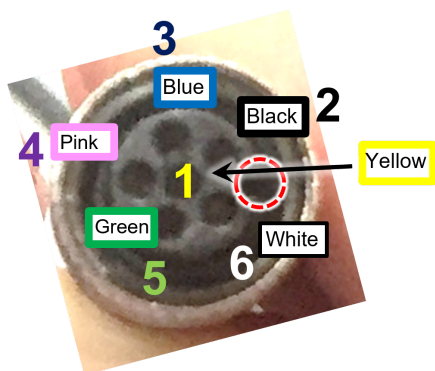
## IZS2DFC Connector Pinouts



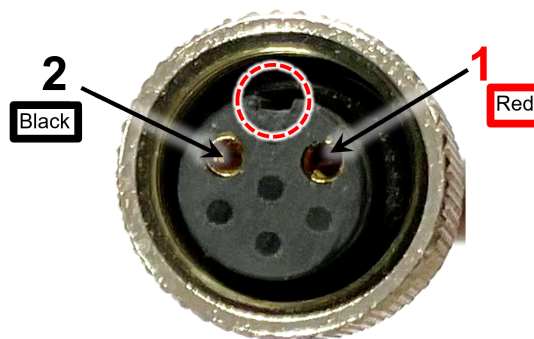
Connector notches indicated by



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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