

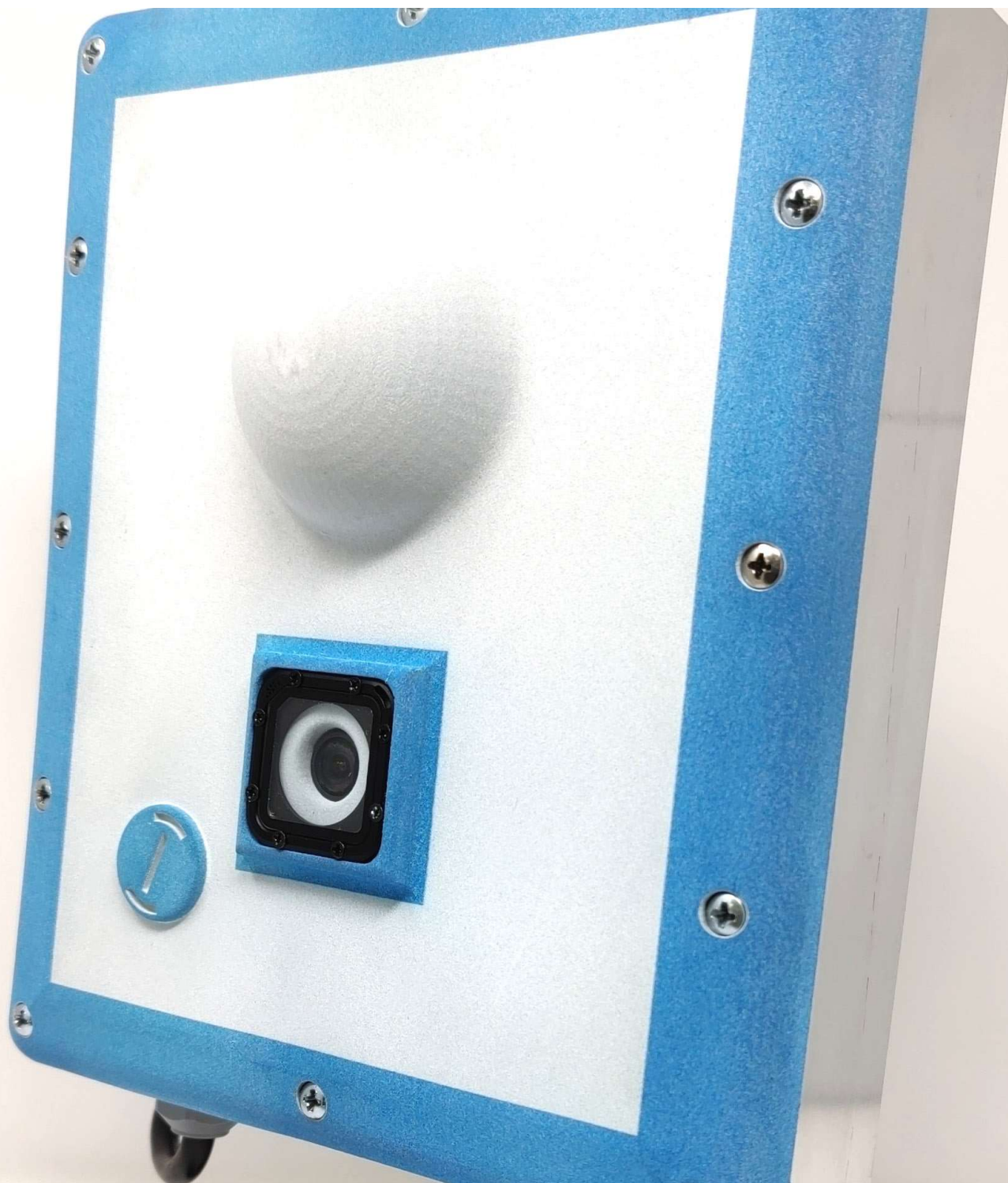


INTEGRITY
COMMUNICATIONS SOLUTIONS



OUR MISSION IS TO 'ADVANCE HUMANITY THROUGH INNOVATIVE SOLUTIONS'

Integrity Communication Solutions is an innovative engineering and technology company headquartered in Colorado Springs. Established in 2009 by US Veteran Mike Tipton, the company has formed valuable partnerships with renowned organizations such as NASA, the US Space Force, and the US Air Force. Integrity Communication Solutions has earned an exceptional reputation for unlocking and maximizing the potential of these and other public and private entities. We take pride in the trust our clients put in us, and we are honored to provide them with cutting-edge technological and engineering solutions.



ARTIFICIAL INTELLIGENCE RADAR CAMERA

Integrity's Artificial Intelligence Radar Camera is radically innovative and allows you to measure and gain control over motorized, industrial or even human behavior with millimeter precision.



VEHICLES

AIRC has the capability to monitor and track vehicles and trailers during their journeys on the road. The advanced sensor technology installed in the AIRC system can swiftly identify, recognize and log various vehicles and freight even in extreme weather conditions. The remarkable ability of AIRC sensor technology to accurately guide drivers or autonomous vehicles, irrespective of size or adverse weather, to safely park with millimeter precision, is truly commendable. With AIRC, efficient and seamless transport logistics is guaranteed.



CUSTODY

AIRC is designed to address and mitigate the risk of deaths in custody. Through advanced pulse and alertness recognition, as well as temperature monitoring capabilities, we can ensure the safety and well-being of detainees. Additionally, the system employs millimeter precision technology to measure physical contact between officers and detainees, providing protection to both parties. The system is designed to respect the privacy of detainees, as it doesn't rely on visual recording. Our sensors are capable of recording and measuring every activity that takes place in a custodial setting, reducing the likelihood of civil litigation. Rest assured that with AIRC, we can confirm whether an incident occurred or not, providing definitive answers in challenging scenarios.



SHIPPING

AIRC has the capability to identify any vessel present in the harbor or at sea, providing accurate information on its size, height, approximate weight and maneuverability. In harbor environments, AIRC assists vessels in docking, ensuring there is sufficient space to load and unload cargo and optimizing the available space. When functioning at sea, AIRC effectively deconflicts radar detections with The Automatic Identification System (AIS), highlighting any anomalous vessels or instances of 'dark ships'. The system's sophisticated features thus enable it to provide detailed insights and data for efficient and informed decision-making. AIRC's reliable and advanced functionality enhances maritime safety, security, and efficiency.

KEY FEATURES

- Can sense objects day or night in any weather condition
- Scalable
- Full identification with privacy protection
- Identification and classification
- Simple power connect
- Small, light-weight, and easy to install

AFFORDABLE & ADAPTIVE

Affordable sensor system that operates in any weather condition day or night, with or without lighting. Easy to install and hook-up. Powerful and adaptable sensor for many monitoring, safety and traffic applications.

SPECIFICATIONS

Dimensions

End point: 247.5 x 167.5 x 81mm

Base station: 52.5 x 237 x 246.5mm

Weight

End point: 2.2 lbs.

Base station: 1.8 lbs.

Humidity

10 to 90 % non-condensing

Operating Temp

-20°C to 70°C

Weather Conditions

Weather Conditions: tested

Snow: Yes

Fog: Yes

Rain: Yes

Camera View: 100m, $\pm 38^\circ$, $\pm 35^\circ$

Radar View: Beam Forming: 100 m, $\pm 45^\circ$, $\pm 0^\circ$

MIMO: 50 m, $\pm 60^\circ$, $\pm 15^\circ$

Power Requirements

Operating Voltage: 120/240V (STD US/UK)

Power Consumption: 25W (End point)

Power Output: Within FCC Approved Power Levels for Emitter

Interfaces

Data: N/A

USB: End point: 0 Base station: 2

Power: End point - standard wall plug

Power: Base Station: 19V AC Adapter

Computing Resources

CPU: End point - Graphics Processing Unit

CPU: Base Station - 6 Core NVIDIA ARM®v8.2 64 bit

CPU 6 MB L2 + 4 MB L3

RAM: End point: 1GB

RAM: Base Station: 8GB 128 bit LPDDR4x @

OS: End point: Linux

OS: Base station: Aarch64 Ubuntu 18.04

ADDITIONAL FEATURES

The ability to operate in offline or cloud-based mode, GPS, easy installation, and a robust and non-descript enclosure make this system applicable in a variety of scenarios.

- Built-in end point GPS for remote and/or mobile sensing applications.
- Image AI is configurable - user can tune 'confidence' parameters to minimize erroneous identification.
- Complete control over end points for debugging purposes.
- Radar Classifier for object detection—includes track, velocity, and location.
- Can be configured to run in a variety of capture modes; e.g., manual, continuous.
- Built-in data viewing and control GUI on each base station.



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**Please contact us for further details
and pricing structures**

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