ZENDUiT

ZenCAM Cargo Specification

AI AI Cargo Monitoring

✓ Security Protection

Multi-Network

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Overview

ZenCAM Cargo is built to simplify and enhance cargo monitoring for fleet operators. Designed to provide clear visibility into cargo status and loading conditions, it helps improve operational efficiency, reduce losses, and ensure goods are transported safely. With smart video capabilities and real-time insights, ZenCAM Cargo supports better decision-making across logistics and transportation environments.

KEY HIGHLIGHTS

- **Dual-Channel Video:** 4K interior & 1080p exterior cargo monitoring.
- **AI Recognition:** Real-time cargo loading analysis.
- **Local Storage:** Up to 512GB Micro SD support.
- **Efficient Compression:** H.265/H.264 for optimized storage.
- **Wireless Connectivity:** Wi-Fi & BT5.1 for seamless operation.
- **Mobile Network:** 3G/4G with Nano SIM support.
- **Solar Charging:** Compatible with external solar panels.
- **GPS Tracking:** Real-time location monitoring.
- **Power-Saving Modes:** Low power & sleep modes for efficiency.
- **Smart Cargo Management:** AI-based monitoring & anomaly alerts.

AI FEATURES

ZenCAM Cargo transforms trailer transport with AI-powered video and data insights. It monitors cargo volume and loading rates in real time, enabling smarter, more efficient operations. With AI cameras, precision sensors, and door tamper detection, it boosts visibility, enhances security, and helps reduce transport costs.

Cargo Loading Rate
(Volume Measurement)

Loading/Unloading
Timeout

Video Obstruction

Specifications

Basic Information	
Product Model	ZenCAM Cargo
Operating System	Embedded Linux System
Maintenance App	Veyes
Language Support	- Default Language: English - Optional Languages: Simplified Chinese, English, Spanish, Portuguese, French, Japanese, Russian, Traditional Chinese, Turkish
CARGO INTERIOR CAMERA PARAMETERS	
Resolution	2160*3840
Frame Rate	10fps
Field of View (FOV)	Vertical FOV (VFOV): 125°, Horizontal FOV (HFOV): 67
Focal Length	3.7 mm
Aperture	F1.7
Shutter Speed	1/30s-1/10000s
Minimum Illumination	0 Lux (supports white light supplement in low-light or no-light environments)
Blacklight Technology	Supported

CARGO DOOR CAMERA PARAMETERS	
Resolution	1920*1080
Frame Rate	25fps
FOV	Vertical FOV (VFOV): 83°, Horizontal FOV (HFOV): 152°
Field of View (FOV)	2.19mm
Aperture	F2.45
Shutter Speed	1/30s-1/10000s
Minimum Illumination	0 Lux (supports white light supplement in low-light or no-light environments)
Blacklight Technology	Supported

LED INDICATOR STATUS

| Indicator Light	Icon	Off	On ⬤ / Flashing ◯
Wifi Status Indicator	(wifi icon)	In Disable or Client mode	🟢 In AP Mode 🔴 WiFi error
Network Status Indicator	(globe icon)	In sleep or low-power mode	🟢 Server connection successful 🔴 Server connection error
GPS Signal Indicator	(satellite icon)	In sleep or low-power mode	🟢 Positioning successful 🔴 Positioning error
Power Indicator	(power icon)	In sleep or low-power mode	🟢 Power supply normal 🔴 Power disconnected. Battery level above 10% ◯ Power level below 10%

RECORDING PARAMETERS	
Video Compression Format	H.264/H.265（default H.264）
Image Quality	Adjustable, supports multiple levels from level 1 (best quality) to level 8 (lower quality)
Recording Mode	Power-on recording, manual recording, time (scheduled) recording, alarm event recording
Pre-record Time	0-60min
Post-record Time	0-30min
LOCAL PREVIEW	
Preview Channel	Supports local single-channel and dual-channel preview
LOCAL PLAYBACK	
Playback Channel	Supports local single-channel playback
Playback Mode	Supports playback by time, channel, or event
SENSOR	
Accelerometer	Built-in 6-axis inertial sensor
INTERFACES	
RS232	1 channel
I/O Port	2 input channels, 1 output channel
USB	1 × mini-USB port

NETWORK	
Wi-Fi	2.4G: Supports 802.11 b/g/n/ax protocols 5G: Supports 802.11 a/n/ac/ax protocols
4G	**North America:** LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5 **Europe and Asia:** LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 **Latin America:** LTE FDD: B1/ B2/B3/B4/B5/B7/B8/B28 LTE TDD: B40 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8 **Mainland China:** LTE-FDD：B1/B3/B5/B8 LTE-TDD：B34/B38/B39/B40/B41 WCDMA：B1/B5/B8 Requires industrial-grade Nano SIM card (MP2). Standard- grade Nano SIM cards (MP1) are prohibited. The company is not responsible for any issues arising from the use of standard-grade SIM cards.
POSITIONING FUNCTION	
GPS	Supports location tracking, speed detection, and time synchronization functions
STORAGE	
Micro SD Card	1 Micro SD card slot, supports up to 512GB storage capacity
POWER	
Power Input	DC 10-36V
Vehicle Charging	Maximum 16W
Solar Charging Power	Maximum 7W

Battery Capacity	Built-in 10.2Ah/73.44Wh battery
Typical Maximum Power Consumption	5.5W
Sleep Mode Power Consumption	0.2W
ENVIRONMENTAL PARAMETERS	
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Operating Humidity	8~95% non-condensing
Storage Humidity	8~95% non-condensing
Protection Rating	IP69K
DIMENSIONS AND WEIGHT	
ZenCAM Cargo Dimensions	198mm × 191mm × 42mm
ABS Battery Box Dimensions	244mm × 236mm × 27mm
Door Sensor Dimensions	**Door Sensor Detector**：106mm × 53mm × 29mm **Door Sensor Magnet**：80mm × 28mm × 20mm
ZenCAM Cargo Weight	1.19kg (Including bracket)
ABS Batter Box Weight	2.12kg (Including bracket)
Door Sensor Weight	0.13kg

Note: Actual dimensions and weight may vary slightly due to product differences, manufacturing processes, and testing methods

PACKAGING INFORMATION (Includes ZenCAM CARGO, battery box, door sensor, and other accessories)	
Units per Box	2Pcs
Individual Product Package Dimensions	455mm (L) × 390mm (W) × 160mm (H)
Individual Product Package Weight	4.34kg
Outer Box Dimensions	475mm (L) × 338mm (W) × 410mm (H)
Full Box Dimensions	9.56kg

Product Image

Product Dimensions (mm)

ZE

ABS Baterry Box
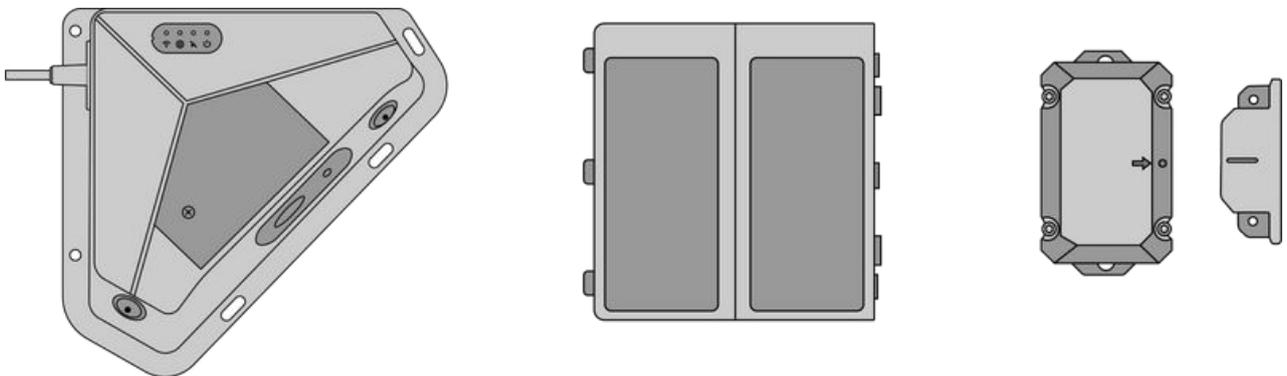
Product Dimensions (mm)
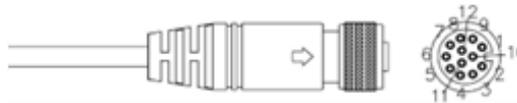
Door Sensors (Detector)
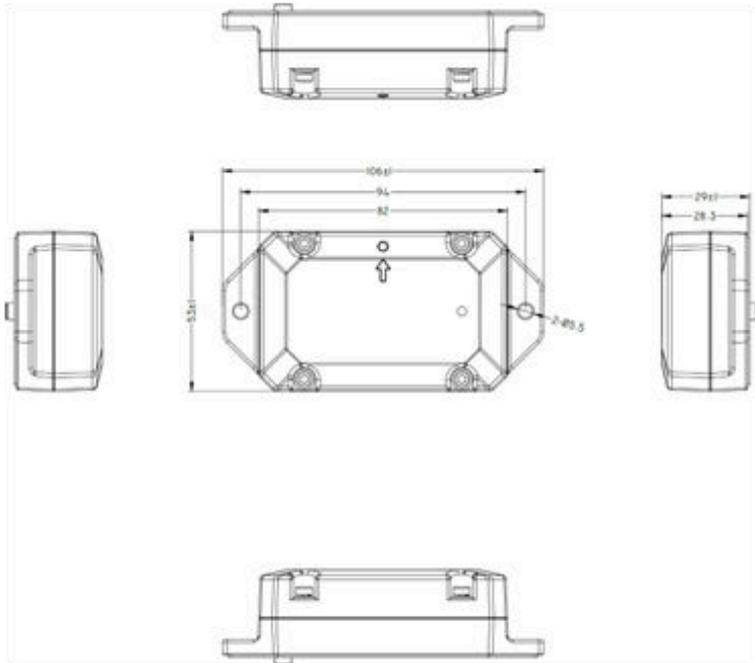
Door Sensors (Magnet)
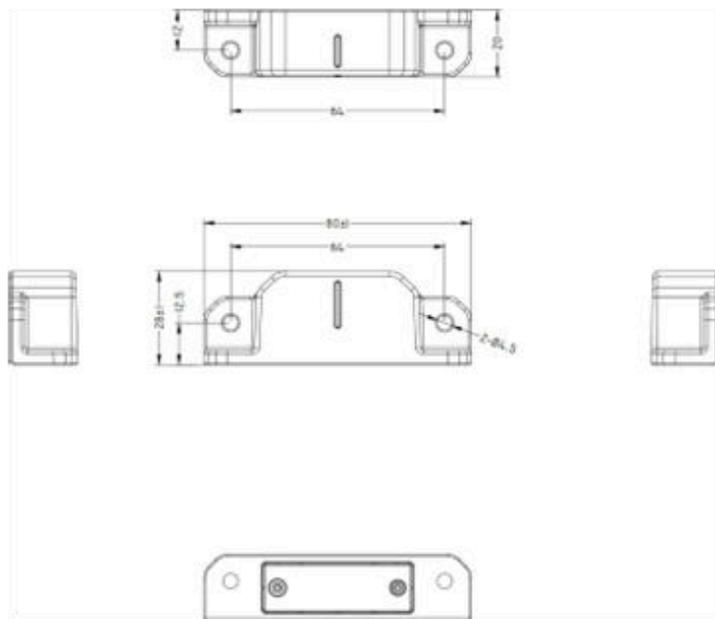
System Connection Diagram
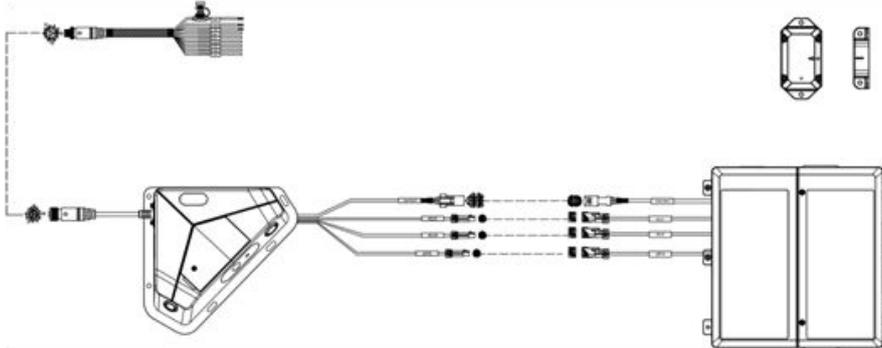
Cables

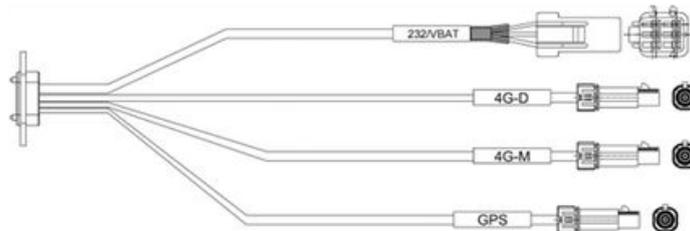## ZenCAM Cargo Tail Wire (Signal Output A)

ZenCAM Cargo Tail Wire (Signal Output B)