

datasheet: Advanced tracker & cargo monitoring sensor LANA VISION



LANA[™] Vision is a cargo occupancy sensor fusion platform consisting of two cameras and a Time-of-Flight ultrasonic sensor which provides improved cargo sensing capabilities where traditional ultrasonic-based cargo sensors fail to provide accurate cargo capacity utilization information.

By implementing direct 3D imaging, LANA[™] Vision eliminates image noise from light and shadows increasing cargo measurement accuracy. The camera pair acts as a stereo vision sensor and the ultrasonic sensor provides short range Time-of-Flight data in case the stereo vision is blocked by very close cargo.

For qualitative review, "thumbnail" style low data cost trailer images are available for upload. LANA[™] Vision is another example of CallPass's dedication to provide state-of-art and innovative products that continue to improve asset visibility, reduce costs and improve overall operational efficiencies.

KEY FEATURES

- Stereo Vision Occupancy Sensing
- Time-of-Flight Distance Sensing
- Solar Panel and 12VDC Recharging
- 15 Ah Rechargeable Battery
- Dual CAN Bus, One-Wire Bus
- LTE Cat 4, Penta-band 3G and GSM (with Dual SIM-Carrier support)
- GNSS support: GPS/GLONASS
- Bluetooth 5 and Bluetooth 4.1 Radios
- 2.4GHz Wi-Fi 802.11a/b/g/n
- Light Sensor, Temperature Sensor
- Accelerometer
- External and Internal BT5 and Wi-Fi Antennas
- External Cellular and GPS Antennas

USE CASES

- Trailers
- Containers
- Dry van

LANA VISION SPECIFICATIONS:

MECHANICAL	
Dimensions	6.25" x 8.81" x 1.75" (15.87 x 22.38 x 4.45 cm)
Weight	24 oz. (680 g)
Case Material	PC+PBT
IP Rating	IP 65
PHYSICAL CONNECTION	ONS
Operating Temperature	-40°F to 158°F (-40°C to 70°C)
Harness Connector	Dual CAN bus, 1-wire bus
Serial Interface	RS232, CAN
POWER REQUIREMNE	NT
DC Power	DC 8 to 28V
Power Source	Internal 15Ah rechargable battery (with solar recharge)
GPS SPECIFICATIONS	
Acquisition	-146dBm Cold
	-158dBm re-acquisition
Tracking Sensitivity	-160 dBm
Accuracy	2.5 meters at CEP-50%
TTFF Cold Start	32 Seconds
TTF Hot Start	2 Seconds
CERTIFICATIONS	·
FCC, IC, GCF, PTCRB, AT&T, Verizon, Rogers, T-Mobile, Bell, Telus	

CELLULAR SPECS: LTE CAT 4, PENTA-BAND 3G, AND GSM AT&T & VERIZON

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AND GSMIAT&T & VERIZON	
4G LTE FDD Bands	1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 28
3G UMTS Band	1, 2, 4, 5, 8
2G EGPRS Bands	PCS (Band 2), GSM (Band 5)
Supported Regions	United States
SMS Support	MT/MO
Comm. Interfaces	LTE Cat 4, 3GPP release 13, 3G UMTS, 2G GSM
Power Class	3 (23 dBm)



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