

Zebra UWB Vision Reader



The Zebra UWB Vision Reader provides robust presence detection for inventory and personnel access control. Utilizing patented, short-pulse, Ultra-wideband (UWB) technology, the UWB Vision Reader offers a detection level that exceeds the capabilities of other Radio Frequency Identification (RFID) technologies. It is offered with three standard integrated antenna models (High-Gain, Mid-Gain, and Omni) to optimize the footprint of the presence detection region. Each UWB Vision Reader can simultaneously receive thousands of signals emitted by Zebra's active UWB Tags with a read range up to 200m (650ft) with the High-Gain model.

In addition, Zebra's UWB Vision Reader is the world's first UWB Reader that is compliant with the new International Ultra-wideband Standard, IEEE 802.15.4.f, as well as the ISO 24730-61 International Standard. Compliance to international standards secures your infrastructure investment by making it compatible not only with Zebra, but also other standards-compliant UWB Tags.

The UWB Vision Reader can be used either as a stand-alone solution or as the perfect complement to Zebra MotionWorks Location Solution. The UWB Vision Reader is able to detect Zebra's UWB Tags in high multi-path, dense metallic environments, making it an ideal presence detector.

The UWB Vision Reader is fully weatherproof (IP67 rating) with an operational temperature range of -40°C to +55°C, suitable for demanding indoor and outdoor industrial environments.

The UWB Vision Reader is powered by standard IEEE 802.3af Power-over-Ethernet (PoE). The UWB Vision Reader supports the transport of the received UWB Tag messages via Ethernet or via its integrated 802.11b/g Wi-Fi Client Adapter (Wi-Fi antennas sold separately). This presence data is delivered in an easy to use format for further integration into RFID edgware solutions available from Zebra and a variety of vendors.

The UWB Vision Reader offers unique features that allow you to deploy and implement a robust RFID solution. The UWB Vision Reader provides software controlled attenuation, allowing the creation of localized presence zones by dialing in the read range from centimeters to hundreds of meters.

The Benefits of Zebra UWB Vision Reader

- Long Range Active RFID
- High Tag Throughput
- Adjustable Range
- Ease-of-Installation
- Global Acceptability
- Robust UWB RFID
- Weatherproof Enclosure

PRODUCT SPECIFICATIONS

PHYSICAL	
Size	UWD-1000-A-01BA: 279mm x 171mm x 108mm (11.0in x 6.75in x 4.25in) UWD-1000-A-02BA: 279mm x 171mm x 108mm (11.0in x 6.75in x 4.25in) UWD-1000-A-03BA: 381mm x 171mm x 108mm (15.0in x 6.75in x 4.25in)
Weight	2.6kg (5.8lbs)
ENVIRONMENTAL	
Operating Temperature	-40°C to +55°C (-40°F to +131°F)
Environmental Sealing	IP67 (Dust & Direct Water Spray Protection)
POWER	
Power Consumption	Standard 802.3af PoE (37-57VDC), 12.0W
Power Supply	• Provided by 802.3af PoE Network Switch, Up to 100m Ethernet Cable
PERFORMANCE	
Frequency Range	Ultra-wideband (6.35GHz to 6.75GHz)
Antenna Gain	• UWD-1000-A-01BA (High-Gain): 13.8dBi • UWD-1000-A-02BA (Mid-Gain): 6.5dBi • UWD-1000-A-03BA (Omni): 5.0dBi
NETWORK COMMUNICATIONS	
Ethernet or WiFi	10/100BaseT, RJ-45, 802.3af PoE-compliant IEEE 802.11b/g, 2.4GHZ to 2.483GHz, 20dBm EIRP
REGULATORY APPROVALS	
Europe	• EN 300 328, EN 301 489-17 • EN 60950-1
North America	• FCC Part 15 Subpart B & C • Industry Canada ICES-003 • UL60950-1, CAN/CSA-22.2 No. 60950-1-07 • UL60950-22, CAN/CSA-22.2 No. 60950-22
South America	• Chile CRC • Colombia SUBTEL • Mexico NOM
Worldwide	• Australia & New Zealand • Singapore

PART NUMBERS

Part Number	Description
UWD-1000-A-01BA	Zebra UWB Vision Reader with High-Gain Antenna
UWD-1000-A-02BA	Zebra UWB Vision Reader with Mid-Gain Antenna
UWD-1000-A-03BA	Zebra UWB Vision Reader with Omni Antenna

PRODUCT ACCESSORIES

- WiFi 802.11b/g Antenna
- UWB Vision Reader Mounts
- UWB Vision Reader Adapter Cables
- 802.3af PoE Midspan Injector



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