

# 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 -40OC to +55OC, 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 DATASHEET**

LOCATION SOLUTIONS ZEBRA UWB VISION READER

# 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
<b>UWD-1000-A-01BA</b>	Zebra UWB Vision Reader with High-Gain Antenna
<b>UWD-1000-A-02BA</b>	Zebra UWB Vision Reader with Mid-Gain Antenna
<b>UWD-1000-A-03BA</b>	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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