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 edgeware 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

PRODUCT ACCESSORIES

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

PART NUMBERS

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>UWD-1000-A-01BA</td>
<td>Zebra UWB Vision Reader with High-Gain Antenna</td>
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