

HDR - High Definition Receiver™

Raising the bar for RTLS performance - the Sonitor High Definition Receiver (HDR) has been developed in response to the growing need for an indoor RTLS technology which provides reliable 100% room-level or sub-room level location accuracy with simple and flexible deployment and Wi-Fi or Ethernet network connectivity.

Flexible deployment: The HDR is equipped with Wi-Fi, built-in PoE and daisy chaining capability.



Multiple Zones with one unit

The High Definition Receiver can be configured to resolve several sub-zones within the same room from a single unit.

Flexible connectivity

The High Definition Receiver is equipped with technology which enables easy and flexible deployment:

- Wi-Fi support
- Built-in Power over Ethernet (PoE) with power forwarding
- Daisy chaining capability
- DHCP assigned IP addresses

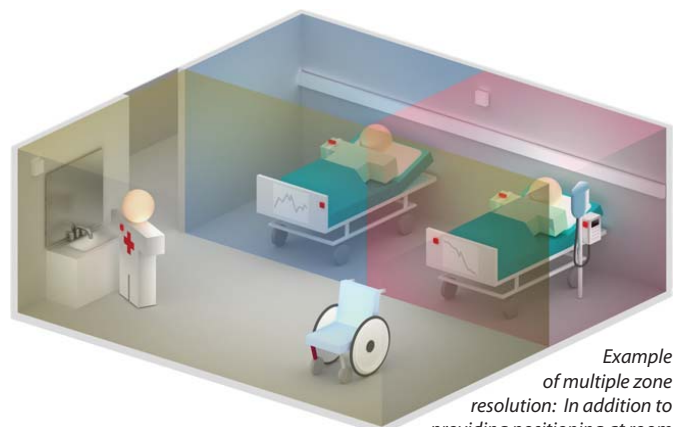
Wi-Fi

Built-in Wi-Fi support enables the Sonitor HDR to leverage existing Wi-Fi network. The Wi-Fi module supports IEEE 802.11b/g with WPA/WPA2 security as well as several other common and advanced security protocols.

Functionality

The HDR microphones detect ultrasound messages from Sonitor Tags. These messages, containing the unique Tag-ID, are processed by the HDR using Sonitor's patented Digital Signal Processing (DSP) algorithms. The processed information is then transferred to the Sonitor IPS server over an existing Wi-Fi or Ethernet local area network.

A customer selected third-party application software interfaces with the Sonitor server software, and presents the accurate real-time location of the ultrasound Tags to the application user.



Example of multiple zone resolution: In addition to providing positioning at room level, one HDR is able to report in which bed a patient is, and which mobile equipment units that are placed in the patient zones.

Daisy chaining

The HDR has two RJ-45 Ethernet connectors which enable daisy chaining of multiple HDR's. Using daisy chaining, existing Ethernet drops can be shared with other standard Ethernet compliant devices.

Built-in Power over Ethernet

The HDR has built-in Power over Ethernet (PoE) with power forwarding for Ethernet. Up to four HDR's can be daisy chained end-to-end.

Microphones with Waveguides

HDR microphones are equipped with waveguides to obtain the desirable sub-room level location zones.



Specifications for High Definition Receiver

Order numbers

- High Definition Receiver	REC-A100
Options for High Definition Receiver	
- Wi-Fi adapter for HDR	WIF-A100
- Power Supply	PWR-A0610-US, PWR-A0610-UK, PWR-A0610-EU, PWR-A0610-AU
- Turret Microphone circular, 8D	MIC-A0008
- Turret Microphone circular, 12D	MIC-A0012
- Turret Microphone rectangular, 9Wx12L	MIC-A0912
- Fixed Microphone	MIC-B100
- Analog Satellite Receiver	REC-A200
- HDR - ASR Adapter	ADP-A100

Dimensions

6.7 x 4.9 x 1.5 in. 171 x 124 x 39 mm (L x W x H)

Weight

7.41 oz. 210 gr.

Power

Input voltage

Current consumption

PoE powered HDR	n/a	PoE standard IEEE 802.3af
Non-PoE powered HDR	6 VDC regulated	1000 mA maximum

Ultrasound communication

Frequency range	from 35 to 45 kHz	
Typical range (office conditions)	40 feet	12 meters
Max range	60 feet	18 meters

Supported standards

Wi-Fi	IEEE 802.11b/g with WEP or WPA/WPA2 and more
Power over Ethernet (PoE)	IEEE 802.3af

Environmental

Recommended operating temperature	+50 to +113°F	10 to +45°C
Storage temperature	-4 to +158°F	-20 to +70°C
Operating and Storage Relative Humidity	17 to 90% (non condensing)	

Mounting

Screws (four mounting holes under protective cover)

Color

Light grey (Pantone 427C)

*Any information contained herein is subject to change without notice.
Please contact your Sonitor representative for updates and other information.*

