

VER-5820 Wireless IR 3.0 Sensor

The Wireless IR 3.0 Sensor is the location element of the third-generation Wireless IR Sensory Network, installed in all areas where precise room-certain locating coverage is needed. Entirely wireless, battery-operated and easily mounted, the sensor receives infrared (IR) signals from compatible Midmark RTLS badges and tags.

The Wireless IR 3.0 Sensor sends IR location and badge status data to BLE Sensors or BLE-capable Wireless Access Points (APs) over a one-way wireless Bluetooth® Low Energy (BLE) signal.



COMPATIBILITY NOTES

Wireless IR 3.0 components are fully compatible with standard Midmark RTLS IR badges and tags. For more information on sensory network design, please refer to the Wireless IR Sensory Network 3.0 Diagram.

INSTALLATION

The attached mounting plate is designed to be installed directly on a hard ceiling surface. Or, it can be easily mounted and secured to a suspended ceiling grid with the included Grid Clip.

FEATURES

- IR modulation provides compatibility with high frequency fluorescent lighting and other IR interference sources
- Inconspicuous white housing blends into ceiling tile
- Battery powered, no wiring required though line power can be used
- Multi-color LED
 - Green=Received valid IR data
 - Red=Low battery
 - Orange=Received valid IR data and sent low battery signal (with red and green LEDs)

SHIPS WITH

- Grid Clip

REQUIRED SEPARATELY

- BLE Plug-in Sensors (VER-5810) or compatible Wireless APs
- CareFlow™ RTLS BLE Telemetry Server
- 3 D Cell batteries*

OPTIONAL - SOLD SEPARATELY

- Wireless IR 3.0 Sensor Focus Kit (VER-6097)
- Wireless Sensor Bracket (VER-6720)

TECHNICAL SPECIFICATIONS

Size

6"W x 5"D x 2.625"H

Weight

22.16 oz with batteries
7.52 oz without batteries

Housing

Durable ABS

IR Coverage Radius

15 ft max/3 ft min

Radio Frequency

2.402 - 2.480 MHz
2 MHz Channel Spacing (BLE)
+4 dBm Output Power

Voltage

2.5-5.5 V

Current Consumption

Average 1 mA

Battery

3 D Cell*

Horizontal Coverage

360 degrees

Vertical Coverage

168 degrees

RF Operating Range

50 ft typical†

Operating Environment

0 to 40C (32 to 104F)
0-95% RH, noncondensing

Storage Environment

-18 to 60C (-0.4 to 140F)
0-95% RH, noncondensing



*Use caution when handling alkaline batteries. Should fluid from the battery accidentally get into your eyes, there is a threat of loss of eyesight; do not rub them. Immediately rinse your eyes with clean tap water and then consult a physician immediately.

†A room's geometry and RF propagation characteristics will influence the actual range experienced. Placement of a unit in the room will impact the system range. Interference from other transmission sources may also decrease the actual range experienced.



Wireless IR 3.0 Sensory Network

FCC STATEMENT:

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

INDUSTRY CANADA STATEMENT:

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with Canada's radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement doit être mis en place dans un environnement favorable à l'environnement. Ce matériel devrait être installé et se dérouler avec une distance minimale de 20cm entre les deuxRadeateur et votre corps.

