

## CenTrak Monitor IT-313\*



IT-313 CenTrak Monitor



IT-313 Mounted to Ceiling

- CenTrak Gen2IR™ Technology for accurate room-level location and 2-way communication with Star base stations
- Battery Operated – Standard 5+ years typical
- Battery Operated – Extended Life Option 10+ years typical
- Can be configured and monitored by central server for superior control
- Simple to install ceiling tile mounting bracket, no in-room wiring required

The Monitor is an IR (infrared) signaling unit used with IR-enabled tags to provide a method of locating tagged assets or people. Each Monitor transmits an infrared pulse pattern containing a unique location code. The CenTrak proprietary IR protocol achieves a marked improvement over conventional IR protocols that were designed for remote control applications. It provides superior resilience to fluorescent and other common indoor interference sources. Coverage zones are limited by solid physical structures such as walls; however, contrary to popular belief, IR does not need line of sight for effective communication. IR signals bounce effectively from structures and walls flood the entire room including locations that are not in direct line of sight to the Monitor.

The battery operation and the extremely simple mounting mechanism allow for the quick and low cost installation of the monitor.

### About CenTrak Gen2IR™ Technology

Second Generation Infrared (Gen2IR) Monitors can be positioned wherever accurate location data is needed including rooms, hallways, and even bays. Similar to light, Gen2IR will not pass through walls, and it does not suffer from traditional infrared and ultrasound line-of-sight limitations. Therefore, when a tag reads a room number, there are no errors. This is certainty-based RTLS, a requirement for today's healthcare automation and workflow applications.

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*\*IT-313 is for use with the CenTrak 2.0 system. Order IT-311 for use with the 1.0 system.*



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## CenTrak Monitor IT-313\*

### Technical Specifications

#### Operation

FCC Operating Frequency Range	902-928 MHz (Model #IT-313)*
CE Operating Frequency Range	868-870 MHz (Model #ITEU-313)*
Power Control	Local on/off, Remote IR on/off
Default Setting	Factory set location code marked on Monitor
Indicators	None

#### Reach

Maximum Room Size	20' square rooms (with single monitor)
Maximum Range	Up to 60'

#### Enclosure

Diameter	6.5 in (165.1 mm)
Height	2.25 in (57.15 mm)
Weight (without batteries)	21 oz (.6 kg)
Case	PC
Mounting	Ceiling tile clip, wall-mount, desktop operation
Monitor Mounting Plate	ITA-352

#### Environmental

Operating Temperature	-20 C to +70 C
Storage temperature	-25 C to +80 C
Operating Humidity	Splash resistant or optional weatherproof case

#### Power

External Power	External power adapter capability (optional) contact CenTrak for details
Battery type	Pre-installed Lithium <i>Standard:</i> 5+ years typical <i>Extended Life Option:</i> 10+ years typical

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THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES AND INDUSTRY CANADA LICENSE-EXEMPT RSS STANDARD(S). OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION. Modifying or tampering with the transceiver's or receiver's internal components can cause a malfunction, invalidate the warranty, and will void FCC authorization to use these products. This product or its systems are covered by one or more of the following U.S. patents: 5,917,425, 7,061,428, 7,378,964, 7,619,532.

L' utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l' utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

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## CenTrak Monitor IT-313\* Accessories



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### Ceiling Attachments



ITA-361 Monitor Metal Ceiling Attachment (9/16 inch)



ITA-362 Monitor Metal Ceiling Attachment (15/16 inch)



ITA-363 Monitor Metal Ceiling Attachment (5/16 inch)



ITA-353 Ceiling Tile Attachment (standard)



ITA-352 Monitor Mounting Plate (standard)

### Power



ITA-356 D Cell Lithium Battery (2) (for illustration purposes only)

ITA-351 Monitor Power Adapter

### Enclosure



ITA-374 Monitor Weather- Proof Protective Dome (Monitor not included)

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