

# **Tech Spec**

RoboTRAK Presenter Tracking System North America: 999-7270-000 Europe and UK: 999-7270-001 Australia and New Zealand: 999-7270-009

### Features

- IR-based presenter tracking for medium to large rooms
- Designed for educators, in consultation with educators, using Vaddio's proven, industry-leading technology
- Reliable tracking: Move around, turn your head, invite others to the front of the room... the camera stays on you
- Switch between tracking and preset positions
- Camera sold separately use with the RoboSHOT<sup>™</sup> camera of your choice

### **IR** Camera

- Simple configuration and administration using the Vaddio web interface
- Adjust the system's tracking behavior to match the presenter's style
- Operational range of 12 to 50 ft (3.7 to 15.2 m), any height from 6 to 15 ft. (1.8 to 4.6 m)

### **IR Source Lanyard**

- No belt pack comfortable, highly wearable design that does not interfere with clothing
- Up to 40 hours of battery power; 25 hours typical
- Recessed switch for full power-down Conserve battery life during storage; no risk of accidental actuation

#### Connectors



- 12 VDC, 3.0 Amp power connector Connect only the PoE splitter shipped with the camera.
- Network/PoE+ 10/100 Ethernet/PoE+ port allows the RoboTRAK<sup>™</sup> IR camera to control the video camera, and provides access to the web interface.
- **DIP switches** Factory use only.

### What's Included

Each RoboTRAK presenter tracking system is shipped with these items:

- RoboTRAK IR camera with dual-camera wall mount
- RoboTRAK IR source lanyard
- 5 VDC USB charger with cable
- PoE+ injector with AC cordset(s) and Cat-5e cable
- PoE splitter with cables
- Quick Start Guide



## How It Works

Elements of the tracking system:

- IR source The presenter wears an infrared signal source on a lanyard.
- **IR camera** Follows the lanyard and directs the video camera.
- Video Camera (sold separately) Follows the IR camera. Any RoboSHOT camera may be used as the video component of the RoboTRAK system.

## Basic Connection Diagram





## Specifications

#### **IR Camera**

| Operational Distance | 12 to 50 ft (3.7 to 15.2 m) | Peak IR Sensitivity | 850 nm                    |
|----------------------|-----------------------------|---------------------|---------------------------|
| Horizontal range     | ±90°                        | Vertical Placement  | 7 to 15 ft (2.1 to 4.6 m) |
| Max. Vertical Offset | 20°                         | Position Presets    | 10                        |
| Communication        | 10/100 Ethernet             | Power               | 12 VDC, 3.0A              |
| Height               | 6.3 in (163 mm)             | Depth               | 5.5 in (145 mm)           |
| Width                | 6.1 in (155 mm)             | Weight              | 3.0 lbs (1.36 kg)         |

**IR Source Lanyard** 

| Battery Life | Up to 40 hrs (25 typical) | Charging time  | About 4 hrs    |
|--------------|---------------------------|----------------|----------------|
| Diameter     | 2 in (51 mm)              | Depth          | 1.0 in (25 mm) |
| Weight       | 3.2 oz (91 g)             | Lanyard length | 24 in (610 mm) |

#### System Mounting Weight

| Mounted to Wall                                   | 15.3 to 16.4 lbs (6.95 to 7.45 kg) | Mounted to Ceiling | 16.7 to 17.8 lbs (7.55 to 8.05 kg) |  |
|---|------------------------------------|--------------------|------------------------------------|--|
| Weight varies depending on the video camera used. |                                    |                    |                                    |  |

#### **Environmental and Room Requirements**

| Operating temperatute | 0 °C to +24°C (32°F to 75°F)  | Storage temperature | -5° to +60° C (23°F to 140°F) |
|-----------------------|---|---------------------|-------------------------------|
| Operating humidity    | 15% to 80% RH   | Storage humidity    | 20% to 80% RH                 |
|                       | (non-condensing)  |                     | (non-condensing)              |
| Lighting Restrictions | No natural or halogen-based lighting, no IR-based communication systems |                     |                               |

#### Video Camera - see specifications for the purchased camera

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