# LightSpeed™ R50



*Automated link finding tracking interface*

*Primary building*

*Hotspot/WLAN/ celluar backhaul*

*Telco Bypass/Voice/PBX connectivity*

*Campus/Event connectivity*
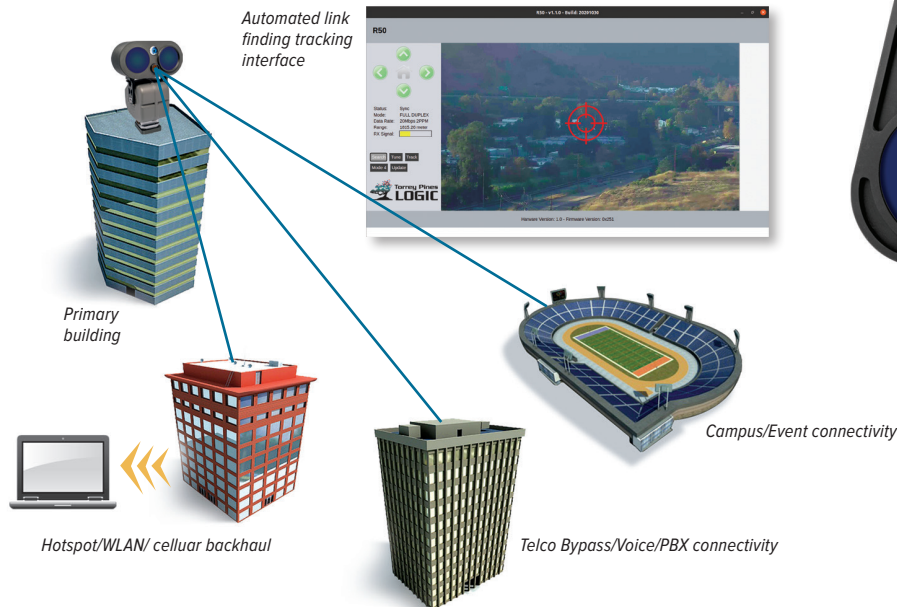
The LightSpeed™ R50 units are the latest generation of the LightSpeed™ optical communication system, incorporating the latest technology in a handheld package. The eye-safe IR LED (no laser) used by R50 allows non-visible communications between units at distances at extended range. Using the supplied headsets, R50 provides full-duplex voice communication. The units also function as an Ethernet link to a remote computing device or to another system via a standard Ethernet connection. In situations where a hardwire connection is unavailable or undesirable, R50 are the perfect alternative to cables.

• Most secure communication technology on the market

• Bi-directional data, voice, and video

• Point-to-point LAN extension

• Auto signal tracking system built into R50 on pan/tilt

• 100% eye-safe IR LED communications

• Perfect for emergency and temporary communications

• Tripod mounted for ease of use

• Best alternative to cables

• Perfect performance even in fog at distances 5-6 times the visibility limit

## Specifications

| | |
|---|---|
| **Voice Communication** | 16 - 64 Kbps |
| **Data Communication** | Up to 20 Mbps |
| **Data Interface** | 100 Base-T (RJ45) |
| **Operating Distance** | 10+ km |
| **Transmitter** | IR LED (no laser) |
| **Field-of-View** | 1.5° |
| **Headset** | Included |
| **Size** | 9 x 8 x8 in to 12 x12 x10 in depending on configuration |
| **Weight** | 6-13 lbs depending on configuration |
| **Mounting** | Tripod or special mount |
| **Power Supply** | 5-12V DC, 5-20W depending on configuration |
| **Operating Temperature** | -20° to +60° C |
| **Storage Temperature** | -40° to +80° C |



**Computer Network**

**Camera Network**

**Building Network**

**Field Network**

**Human Voice**