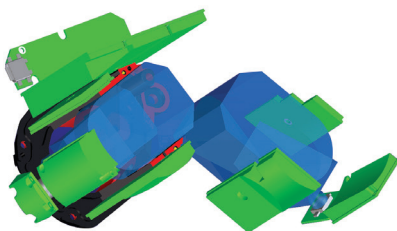# LightSpeed™ B22

Non-RF, Covert, Optical Communications System

The LightSpeed™ B22 unit is the latest generation of the LightSpeed™ optical communication system, incorporating the latest technology in a handheld package. B22 is built on the award-winning Geovid 8x56 BRF binocular platform by Leica. The eye-safe IR LED (no laser) used by B22 allows non-visible communications between units at distances up to 3.2km. Using the supplied headsets, B22 provides full-duplex voice communication. The unit also functions as a network link to a remote computing device or to another system via USB network connection. In situations where a hardwire connection is unavailable, B22 is the perfect alternative to cables.

- Highly secure, extremely LPI/LPD, anti-jammable communication system

- Enables bi-directional data, voice, and video
- Can act as a point-to-point LAN extension
- Built upon the highest quality Leica optical binocular system
- 100% eye-safe IR LED communications
- Wide field-of-view
- Perfect for emergency and temporary communications
- Handheld or tripod mounted for ease of use
- Provides a flexible alternative to cables
- Operates even in fog at distances 5-6 times the visibility limit

Internal prisms and electronics

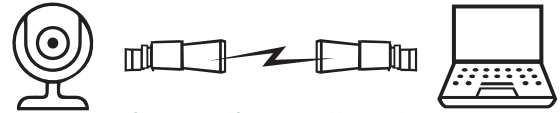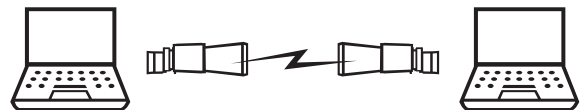**B22 controls**

Fog and environmental testing

LightSpeed

Specifications

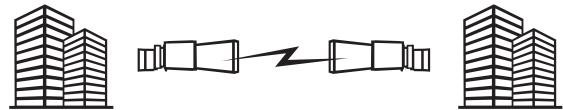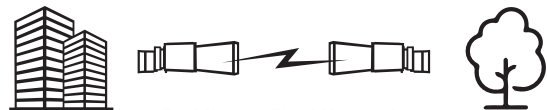|	
Voice Communication	16 - 32 - 64 Kbps
Data Communication	Up to 1 Mbps
Data Interface	USB
Operating Distance	Up to 2 mi (3.2 km)
Transmitter	IR LED (no laser)
Optical Spectral Band	Custom from 300 nm to 2000 nm
Field-of-View	6.8°
Headset	Any COTS
Size	153 x 80 x 182 mm
Weight	1,230 g
Mounting	Handheld, tripod
Power Supply	3 AA batteries or 5V DC, 2.5W
Operating Temperature	-20° C to +60° C
Storage Temperature	-40° C to +80° C
Magnification	8X
Front Lens Diameter	56 mm
Exit Pupil	7 mm
Field-of-View	118 m at 1,000 m
Eye Relief	18.5 mm
Close Focusing Distance	5.6 m
Diopter Compensation	+-3.5 diopters

Human to Human Voice

Camera to Computer Network

Computer to Computer Network

Building to Building Network

Building to Field Network

For more information email us at info@tplogic.com