



Laser Listening System

FGLD-700 SERIES



850 nm
5 Watts IR Laser System

www.fusionsgroup.com



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The Laser Listening Surveillance System (FGLD-786) is very sophisticated and sensitive electro optical equipment. It has to be used when access to a voice of more than 60 dB in a room is desired, which is otherwise impossible to hear. The laser transmitter, with its invisible 4.9 Watts infrared beam, has to be precisely directed at the angle of 180° to a clear glass window of 3 to 5mm thick at a distance of 20 meters to 1000 meters, of the room to be monitored. A portion of the laser beam will be reflected by the window pane.

The receiving part of the FGLD-786 picks up the reflected laser and converts it into pulses which, after filtering, and amplification can be fed into headphones and/or recording devices.

The Laser Listening Surveillance System (FGLD-786) can listen the sounds of more than 60 dB from a long distance up to 1000 Meters Line of Sight (LOS) from a Precisely Focused Window in ideal conditions, but distance can be reduced by the natural and environmental factors like dust, snow, fog, uneven window surface, color glasses of the window and other optical interfaces like direct sunlight or due to flashlights etc. It is recommended to use this system in night time or in low light to achieve the maximum efficiency.

The FGLD-786 has more function, it has a built in solid-state micro optical stabilizer for high immunity against vibrations. It also has a special high powered lens from SIGMA Japan 680-850nm for Cancellation of Ambient Optical Noise.

The laser transmitter and receiver are built in a special splash-proof mono block, allowing the system to be operated in inclement weather conditions. The state-of-the-art semiconductor laser is extremely mechanically robust and, due to its low power consumption, a running time of approximately 7 hours can be achieved by each battery (Depend upon the volume). The weight of the Total system including Tripod, with packaging is approximately 25 KG. The FGLD-786 is a standalone unit and placed on a tripod and can be hand held for short time of use.

GPS Navigator is the integral part of FGLD-700 Series. This feature allows to the user to place the system on exact location as marked through the Digital map like Google® Map etc. For Using the GPS, system should be placed where Sky Visibility is 100% like play grounds or roof tops. A thick 3 to 5mm Aluminum rugged casing is designed especially for military & tactical applications for the operating temperature range of -10 C to +55 C.

However the system is simple in operations but it needs very high degree of skills to tune properly. By understanding these issues “FG” offers at site trainings to the end-users, clients and organizations worldwide for its operations and handling in cost-effective way. For your training related inquiries please contact us at: support@fusionsgroup.com or Fax: +92-21-35206558.

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Technical Specifications:

Laser Receiver Model: FGLD-786

Laser Type: PIN-Diode

Wave Length: 850nm

Lens: 600 mm Double Reflex

Power Supply: 12 V

Battery Life: 6-12 hours (depending on the volume)

Amplifier unit: Digital Laser Receiver Amplifier

Amplification: adjustable

Connections: Headphone, Speaker

Voice Filter: Digital Equalizer

Mechanical

Dimensions: 645 x 400 x 295mm

Weight: 15 kg with batteries and tripod



Packaging:



IR Laser Lens Assembly

Main Lens 600mm

FGLD-786 Laser Listening System



	<p>FRAGILE KEEP DRY</p>