









#### Use of Parabolic Reflector

With the Parabolic Reflector connected to the **PD-SGS**, the reflector should be pointed at the HV equipment being inspected.

Look through the view finder with both eyes open and line up the red dot visible through the view finder with the centre of the inspection area.

The PD-SGS instrument should be operated in AE Mode (See PD-SGS Operation Manual) and it will register a dB reading on the user display. It will also generate an audible output according to the level of activity detected.

It is recommended that when using the Parabolic Reflector out of doors, the head phones are worn in order to minimise interference from outside noise sources.

Owing to the nature of acoustic PD detection and natural variations caused by environmental conditions, it is recommended that PD levels identified are appraised according to their relative values when compared with other similar plant and not in absolute terms.



#### Maintenance and Servicing

- If necessary, clean the equipment with a damp cloth. Do not use solvents as this may damage the surface.
- After use, the equipment should be disassembled and stowed in the carrying case.
- Replace low batteries immediately with a new cell of the type CR2032
   3V. The battery box is situated on the lower surface of the red dot sight.

## **Technical Specification**

### Parabolic Reflector

The parabolic dish works with the existing electronics used in our PD instruments, so conforms to the same specification. The unit is passive and so the signal processing and interpretation is done by the main units.

Measurement	
Measurement Distance	100 metres
Measurement Range	-6dBμV to +70dBμV
Measurement Gain	With suitable detection distance, measurement gain is 18 to 20 dB
Resolution	1dB
Accuracy	±1dB
Transducer Centre Frequency	40 kHz
Transducer Sensitivity	-65dB min at 40 kHz (0dB = 1 volt/ $\mu$ bar RMS SPL)
Recommended Load Impendence	$1M\Omega$
Transducer Diameter	16 mm
Hardware	

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Hardware		
Aiming	Laser pointed heads up display	
Laser Power	Yes	
Laser Spot Size	2 mm	
Dish External Diameter	258 mm	
Dish Nominal Diameter	258 mm	
Kit Weight	1.56 kg	
Operating Temperature	-10 to 55°C	
Humidity	0 – 95% RH non-con	
IP Rating	54	
Output Connector	3.5 mm or 6.35 mm TRS (Stereo Jack)	
Coupling	N/A - Hand held instrument	
Calibration	The unit is supplied fully calibrated	
Designed and manufactured in the United Kingdom		

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The Parabolic Reflector can be use with:
PD-SGS
PD Detector

