

Optical Contact Microphone (3082)



The Optical Contact Microphone is ideal for tactical through-wall listening operations. It is highly sensitive for real time listening and provides high intelligibility through its built-in DSP based noise canceling feature. A stand alone unit, battery powered solution intended for special task forces in hostage scenarios or any other covert applications. The sensor head is protected against high level of impact making it ideal for large range of deployment scenarios. A special needle allows listening through false walls. The Optical Contact Microphone gives users the ability to monitor audio in closed rooms or places where there is no access to install a standard microphone. The Optical Contact Microphone enables listening through: concrete walls, plaster walls, doors and windows without the need to be inside the place.

Key optical sensor signal parameters are:

- high sensitivity
- wide frequency response
- high signal-to-noise ratio (SNR)
- wide dynamic range
- durability and stability

The Optical Contact Microphone has a built in battery to enable tactical operation without external power.

The noise reduction solution, implemented via DSP, can be applied per need by a simple push of a button. It will filter ambient noise when operated e.g. air conditioner etc.

The system includes: headphones, 9V battery and external power supply (when external power source is available) and a 5 meters cable.

Goldman Trades Surveillance and Security Equipments
57 Charing Cross Road
London
WC2H 0NE
United Kingdom

Registration No: 05871589
VAT: 911405858
Tel: +44-2072873621
Fax: +44-2072873621
admin@goldmantrades.com
<http://www.goldmantrades.com>



Intelligibility through concrete wall Up to 80cm in thickness
Frequency response (+ 10dB) 200-5000Hz
Line-out sensitivity (@1mg) >10 mV rms
Gain control range >45 db
Self noise (RMS) <30 μ g rms
Noise reduction >12 dB
Supply Voltage 9-15 V DC or 9V battery
Power consumption <0.5W
Output impedance 3.5 mm plug <100 Ω
(standard line output)
Operating Temperature range -20 C to + 60 C
Cable length 5 meters (standard) or more
Dimensions, OCM head Height: 20mm
Diameter: 35mm
Weight: 16g
Dimensions of Electronic unit Height: 27 mm, Width: 57 mm, Length: 110 mm

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