

Datasheet

Scylla Underwater Loudhailer



Description

Scylla is an optional module for the Sonardyne Sentinel Intruder Detection Sonar, which adds an underwater audible warning and deterrent capability.

Scylla comprises an underwater speaker and a surface Loudhailer Drive Unit (LDU).

The LDU can be housed in a standard 19" IEC 60297 rack and is 4U high, its housing has been designed so that it can easily be fitted to the rear of the standard Sentinel Sonar Processor (Type No. 8161-002-001). The LDU has a standard mains power connector – with switchable 115/230VAC supply – that can be supplied by the Sonar Processor PDU (620-0035) and an additional Sonar Power Connector, which is connected to the Sonar Cable Reel. The standard Sonar Cable Reel power cable connects to an input socket on the LDU.

All lengths of Sentinel underwater cable can be accommodated by means of a set of four cable-select switches, which prevent overdriving the underwater speaker.

Control of the Scylla system is fully integrated into the Command Workstation application for Sentinel allowing automatic or manual playback of pre-recorded messages or near real time "Push to Talk" messaging, via a standard microphone, at ranges of up to 600 metres.

Proprietary signal shaping algorithms are applied to the transmissions to enhance clarity, even at long ranges.

The Scylla system has been designed such that the maximum source level does not exceed 195 dB re 1µPa @ 1 metre. Trials and modelling have shown this sound pressure level is to be disorientating but not dangerous to humans even if divers approach to within one metre of the underwater speaker.

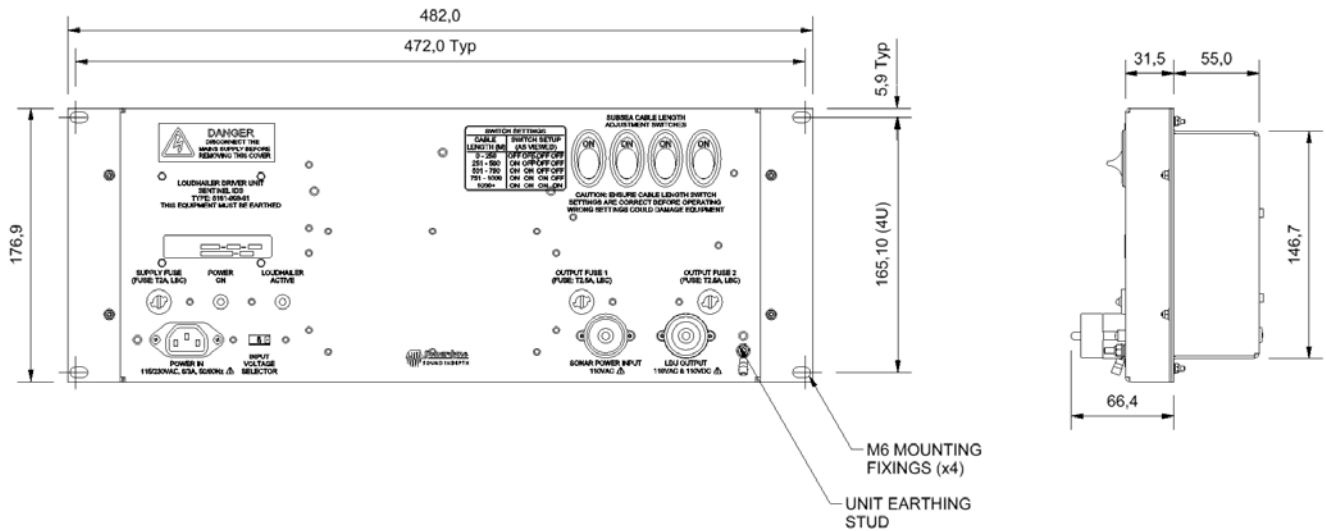
The Scylla can be co-located with the Sonar Head and controlled via the standard 75 metre or 300 metre sonar cable or deployed remotely via a dedicated cable, allowing easy over-the-side use.

Key Features

- Scylla Underwater Loudhailer contains LDU (620-0120) and Underwater Speaker (620-0121)
- Fully integrated software solution
- Easy installation to existing Sentinel Sonar Processors
- Hailing ranges of up to 600m
- Proprietary signal-shaping for enhanced clarity at long range
- 360° coverage
- Can be fitted to each of the sonars in a multi-head system
- Automated message transmission
- Manual messaging override
- Non-lethal diver deterrent
- Safe for marine life

Specifications

Scylla Underwater Loudhailer



Feature Type 8165-022-01

Loudhailer

Frequency Response	250Hz to 20kHz
Source Level	195 dB re 1 μ Pa @ 1 metre (Max)
Loudhailer Dimensions	\varnothing 230mm x 150mm
Loudhailer Weight	5.4kg
Maximum Operating Depth	15 metres

Loudhailer Driver Unit (LDU)

Dimensions	482mm (19") x 176.9mm (7") x 86.5mm (3.4")
Unit Weight	4kg
Power Requirements	115/230VAC, 6/3A, 50/60Hz
Loudhailer Power Out	110VDC