

# CM2 SIDESCAN SONAR TRANSCEIVER (STR) SPECIFICATION

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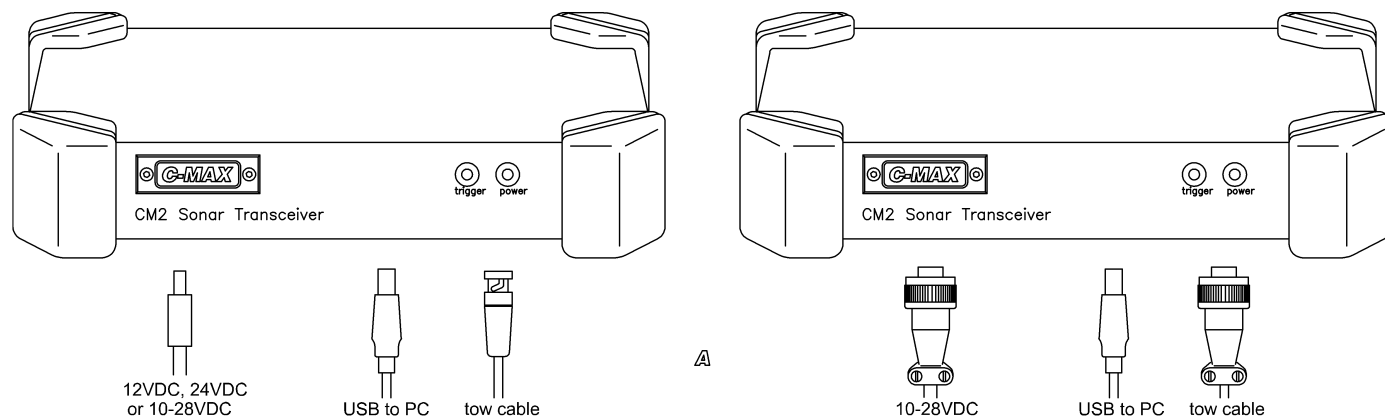
## 1. GENERAL

The C-MAX CM2 Sonar Transceiver Unit (STR) allows the CM2 digital towfish and digital tow cable telemetry to be interfaced to any host PC running MaxView sonar data acquisition software or acquisition software from third-party suppliers. The sonar appears to the host PC simply as a USB peripheral; the USB link combining sonar data, status and control. The advantages of the USB interface are that the data remains digital throughout and that no extra hardware is needed to interface to any computer, including laptops.



As well as transmitting the sonar data and status to the host PC, the STR also supplies power and control commands to the towfish. Power is not extracted from the USB link.

The standard interface uses a 2.5mm DC power socket and a BNC connector for the tow cable. The optional interface uses MIL-C-5015 for compatibility with the CM2 C-Shell waterproof enclosure.



## 2. INTERFACES

- Tow cable
- USB (slave, peripheral to acquisition computer)

### 3. DATA HANDLING, COMMANDS AND STATUS MESSAGES

Consult C-MAX for detail of the handling of the digitized echo signal, and the commands and status messages between the STR and the towfish. A DLL is available for developers of third-party interfaces.

### 4. PANEL DISPLAY

The STR is fitted with a red Power LED and a green Trigger LED. The trigger LED flashes at the ping rate.

### 5. POWER

Power input; 12VDC at 3A peak, or optionally specified to accept 24VDC at 1.8A peak. Later units accept 10 - 28VDC if so marked on the rear panel.

An auto-ranging external power adaptor is also supplied so that the STR may be powered from any 110/230VAC supply.

### 6. MECHANICAL

The STR is protected by a robust stainless steel splashproof enclosure (297 x 204 x 60mm), with rubber corners.

### 7. ENVIRONMENT

0 to +45°C; 10 to 90% RH; 40G, operating  
-10 to +55°C; 2 to 95% RH; 40G, non-operating  
IP64

The above specifications may be changed without notice.

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