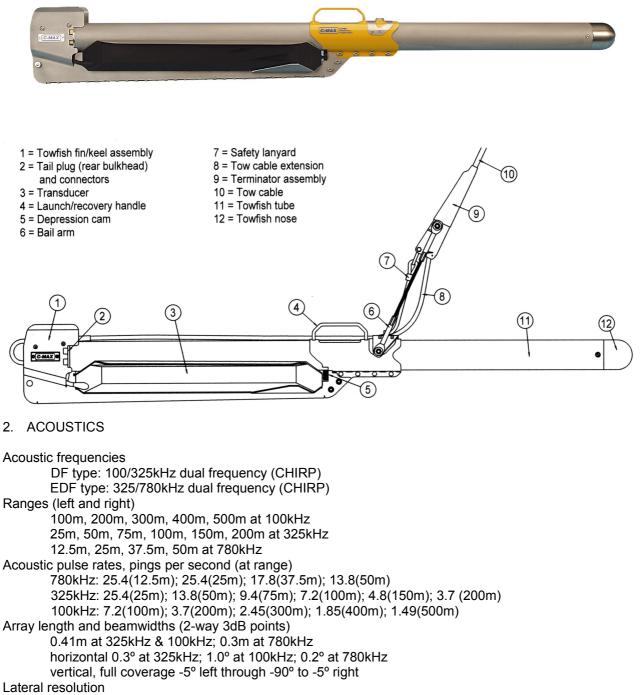
Specification '

CM2 TOWFISH SPECIFICATION Issue 12, July '17

1. GENERAL

The CM2 towfish is the instrument that acquires the data from which the sonar image is derived. It is towed, and provided with power and digital telemetry services, by a reinforced or armoured 2-conductor tow cable. CM2 towfish are available in two different dual-frequency versions, both inter-operable with all CM2 data acquisition subsystems. A DeepTow version is also available (see CM2 DeepTow Specification).



18mm at 780kHz; 39mm at 325kHz (18mm at 25m range); 78mm at 100kHz

C-MAX

Specification .

Beam depression (of maximum sensitivity axis) 10° or 20°, adjustable without tools

3. OTHER SENSORS

Towfish altitude, from integral echo sounder, 78mm resolution Water temperature Heading (option) Depth (option)

4. MAGNETOMETER INTERFACE

Optional interface to Marine Magnetics Explorer and SeaSpy magnetometers, allowing the magnetometer towfish to be powered from the CM2 towfish and utilise the CM2 tow cable telemetry; this avoids the need for the magnetometer to use a separate tow cable.

5. WING DEPRESSOR

Optional CM2 Wing Depressor can be fitted to increase towing depth by up to 50% for the same cable length and towing speed.

6. SAFETY FEATURES

Breakaway mechanism, using standard C-MAX breakable washers, releases to give tail-first towing if tow force exceeds a nominal 0.75kN (75kg)

7. ENVIRONMENT

Operating depth

0-2000m

Operating speed

1-8 knots (but note that the physical limitations of cable drag and layback may limit operating speed) Maximum towing speed

12 knots

8. MECHANICAL

Construction stainless steel (no aluminium) Towfish dimensions and weights 1.24m length DF type: 18.0kg in air, 12.2kg in seawater EDF type: 17.1kg in air, 11.3kg in seawater Towfish temperature range -5 to +45°C operating -30 to +80°C non-operating

C-MAX Ltd, 9 Hybris Business Park, Crossways, Dorchester, Dorset DT2 8BF, U.K. Tel: +44 1305 853005, fax: +44 1305 852136, email: <u>sales@cmaxsonar.com</u>, web: cmaxsonar.com

