## **FSI MCR-554 ECHO ANGLER**

## Multi-Channel Directional Pinger Receiver / Locator System

# Detects Up to 16 Individual Industry-Standard Acoustic Source Frequencies

The **Falmouth Scientific MCR-554** is 16-channel acoustic receiver used for relocating acoustic sound sources. Using the latest in underwater acoustic technology, the MCR-554 allows the tracking and recovery of acoustic Pingers which emit industry standard acoustic frequencies.

Designed for the offshore environment, the MCR-554 Multichannel Receiver can accurately track up to 16 different Pingers to within 1 meter (3 feet). The MCR-554 passively listens for pings corresponding to 16 different channel frequencies between 27 kHz and 38.25 kHz and can provide relative signal strength and bearing info on all 16 sources.

Long life rechargeable batteries in the MCR-554 allow the operator to locate and track Pingers for up to 8 hours between charges. Using sealed switches on the splash-resistant deckbox front panel the operator can select and display the corresponding channel for the Pinger to be located.

An optional towed omnidirectional hydrophone can be added to the system for large area search of pinger sources. After the general source area is identified the operator switches to the standard directional hydrophone to pinpoint its location.

#### **APPLICATIONS**

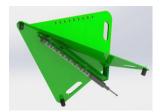
- Relocation of Assets such as equipment, instrumentation, and autonomous underwater vehicles (AUVs)
- Flight Data Recorder Recovery
- Emergency Location of In-water Personnel
- Location of FSI ELPF-553 Flash Pingers (optional)

#### **FEATURES**

- 1 to 16-channel acoustic receiver used for relocating industry-standard acoustic sound sources
- RS-232 serial data port for transmitting received Pinger signal strength and bearing information, and for accepting user commands for system setup and configuration
- System includes MCR-554 Receiver deck box, system test cable, directional hydrophone with 100 meter cable, and battery charger
- Optional Towed Omnidirectional Hydrophone for large area search operation



FSI MCR-554 Echo Angler with standard directional hydrophone



Optional Echo Angler Towed Hydrophone



Optional ELPF-553 Combination Acoustic Pinger and Flasher



### **SPECIFICATIONS**

#### MCR-554 Multi-Channel Receiver

#### SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

#### **Acoustic**

Receive Frequencies (16 Channels) 27-38.25 kHz in 750 Hz increments

Acoustic Range 300m (1000ft) @ Sea State 0,

Actual range dependent on acoustic environment

Acoustic Bearing Range 360 Deg., Resolution 1 Deg., Accuracy +/- 5 degrees

Optional Towed Omnidirectional

Hydrophone

Omni across track, 4.5 degrees along-track

#### **Electrical**

Display Organic Light-Emitting Diode (OLED) 128x64

User Controls Piezoelectric Switches, RS232 command interface

Audio Interface Speaker, 3.5mm Phono Jack

Serial Communications RS-232, 9600bps, N-8-1, No Flow Control

Power Source Rechargeable NiMH Battery 3600mAH

External Power Supply 110-240VAC to 12VDC

Battery Charger 100-240VAC, 50/60Hz, 1.8A

Operating Life on Battery Power 12 hours

#### **Mechanical**

Directional Hydrophone 316 Stainless Steel

Deck Box Housing Material UK613 Case

Deck Box Dimensions 35.5cm (L) x 26.5cm (W) x 15cm (H)

14 in (L) x 10.5in (W) x 6.0in (H)

Hydrophone Deck Cable PU Jacket, 100M length

Weight Deck box: 4.4kg (9.5 lbs.)

Staff Assembly with Hydrophone: 6.6kg (14.5 lbs.)

Accessories Battery charger, External Power/Communication test cable,

User's manual

Optional Towed Vehicle with Omnidirectional Hydrophone Aluminum housing, approximately 30x30x20 inches

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