

SCHEDA IMBARCAZIONE “MEDMA”



NOME:	MEDMA - RR.NN.MM.GG Trapani n° TP2262 uso speciale “ricerche oceanografiche”
ARMATORE:	MEDMA TOURING S.R.L. - TRAPANI, ITALIA
BASE OPERATIVA:	TRAPANI - ITALIA
LUNGHEZZA FT:	16.90 m
LARGHEZZA:	5.00 m
PESCAGGIO:	1.20 m
SISTEMI DI NAVIGAZIONE:	G.P.S. + RADAR 50 NM
SISTEMI DI COMUNICAZIONE:	RADIO VHF
PROPULSIONE:	2 x 270 Hp AIFO
VEL CROCIERA:	10 NODI
VEL. SURVEY:	VARIABILE, MIN 3.0 NODI
LIMITI OPERATIVI:	FORZA 4/5, ALTEZZA D'ONDA 2 m
NAVIGAZIONE:	NAZIONALE COSTIERA
LABORATORI:	12 m ² LABORATORIO ASCIUTTO + 12 m ² AREA DISPONIBILE.
SPAZIO IN COPERTA	30 m ² CIRCA
ALIMENTAZIONI ELETTRICHE:	1 x ONAN 6.5 Kw - 12 /24 VCC e 220 VAC STAB.
ALTRI SERVIZI:	A-FRAME PNEUMATICO A POPPA PER LA MESSA A MARE E RECUPERO DI STRUMENTI: 2-7.5m PER 2000- 2500 KG; VERRICELLO IDROGRAFICO PER SSS CON 500 METRI DI CAVO ARMATO COASSIALE. STRUTTURA ESTERNA PER L'INSTALLAZIONE DI TRASDUTTORI MULTIBEAM E SINGLE BEAM.

OmniSTAR

3200LR12 DGPS Receiver



The OmniSTAR 3200LR12 DGPS receiver combines high performance GPS reception with OmniSTAR's real time sub-metre accuracy in a single, lightweight, durable and robust housing. This compact receiver can easily be mounted to a Belt system or belt holder or to any standard GIS backpack or can also be easily installed in a vehicle. The 3200LR12 is compatible with a wide range of data loggers.

OmniSTAR Applications

- Airborne geophysics
- Mapping & boundary marking
- Precision Farming
- Aerial Applications
- Search & Rescue
- Vehicle location & Positioning
- Navigation
- Environmental Monitoring
- GIS data acquisition
- Defence applications
- Asset Monitoring
- Aviation
- Photogrammetry
- Surveying

Features

- Compact, lightweight portable receiver
- Robust design using high quality components
- Minimal power requirements (reverse page)
- Real time performance indicators
- Single and multiple output rates NMEA message in all formats (user selected)
- Remote access facility (via satellite link)

- Compatible with most common antenna systems
- Quality Control Statistics available to the user

The OmniSTAR 3200LR12 DGPS receiver can be configured in different modes with various options including data output, multiple output rates and timing outputs.

OmniSTAR DGPS services

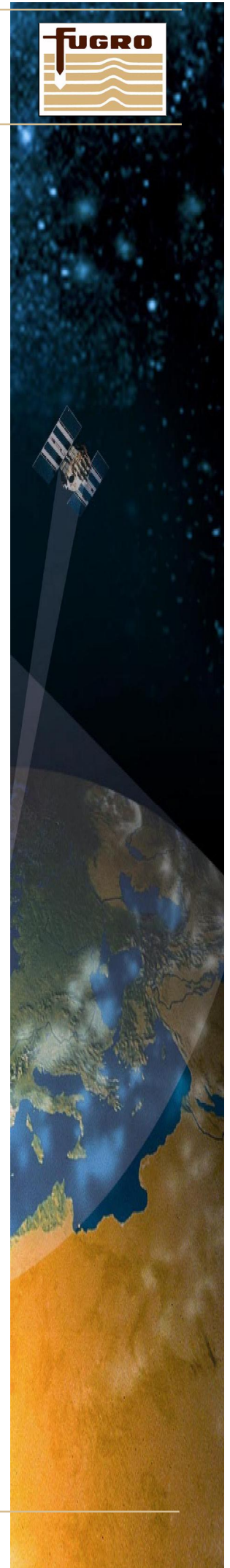
OmniSTAR transmits Differential GPS correction data world wide using a global network of reference stations to measure errors in the GPS system and generate corrections.

This reference data is gathered at a Network Control Centre (NCC) where it is checked for integrity and reliability and up-linked to a series of geo-stationary satellites, which distribute the data worldwide. The OmniSTAR service is available by subscription.

VBS – Virtual Base Station

OmniSTAR's Virtual Base Station (VBS) Service is a unique, worldwide high accuracy service with sub-metre performance throughout the coverage area (subject to the antenna used).

The high level of reliability is made possible by processing all of the data from the available reference stations and processing this information using a weighted, least squares solution. The corrections are adjusted for the users specific position giving an optimal solution.



OmniSTAR's VBS services features

VBS provides a consistent accuracy over a wide area. It is highly reliable because it is not dependent on any single reference station. There are no position jumps due to switching from one reference station to another. All reference stations have dual data connections to their network control centre. The European service uses two up-links (primary and backup) and is covered by several satellite services.

OmniSTAR Global Coverage

OmniSTAR corrections are available around the world. OmniSTAR operate a global network of reference stations, controlled by two global Network Control Centres. These Network Control Centres also provide free of charge, 24-hour technical support to OmniSTAR users if required.



Specifications

Receiver Frequency

Automatic scanning: 1525 MHz to 1559 MHz

Environmental

Operating Temperature: - 20° to 60° C
 Non-Operating: - 40° to 85° C
 Humidity: 95% non-condensing
 Vibration: 3G/30 Hz/ x, y & z axes
 Shock: Max 7G, 5-20 msec zero rebound

Dynamics

Altitude: -400 m - + 18,000 m MSL
 Velocity: <515 m/s
 Acceleration: <4 g

Approvals

Complies with European and USA EMI/EMC Directives.

Data inputs and outputs

Serial Ports: 2
 Data Rates: 600 – 38,400
 Output Message type: NMEA 0183 version 2.3, ALM, GBS, GGA, GLL, GRS, GSA, GST, GSV, RMC, VTG, ZDA

Connectors

RF input to receiver: TNC
 Power: EN3C3M

Power

Power Supply: 10-32 Vdc
 Power Consumption: 410mA @12Vdc
 LNA Power: 5 Volt

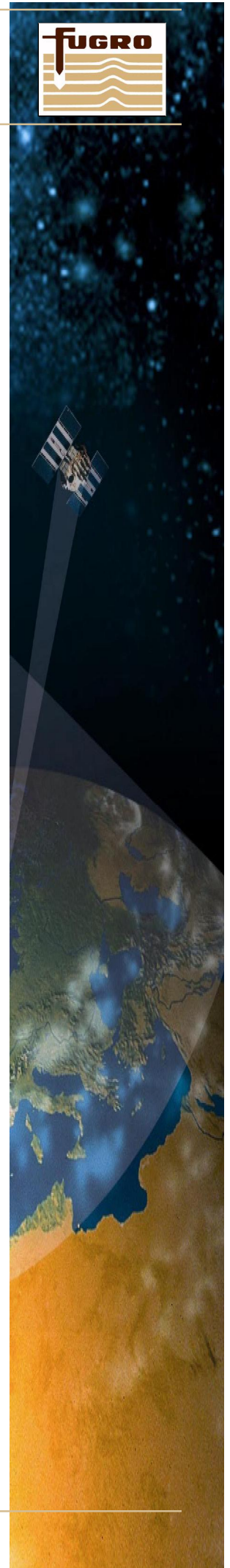
Physical Characteristics

Weight (g) (approx.): 870
 Display: 3 LED indicators
 Size (mm) (L x W x H): 194 x 112 x 67
 Control: Power Switch

OmniSTAR B.V.

P.O. Box 113 - 2260 AC Leidschendam
 The Netherlands
 Phone +31 70 31 70 900, Fax +31 70 31 70 919
 E-mail info@omnistar.nl
www.omnistar.nl

Or contact your local distributor:



Gyro, Surface TSS Meridian

- RS232 Output
- 24V DC Supply
- Speed & Latitude Compensation



DESCRIPTION

The SG Brown Meridian is an accurate Gyro Compass which is easy to use and simple to integrate into navigation systems. Outputs include RS232, RS422, 20mA Current Loop, Stepper and Synchro. Latitude and Speed compensation can be entered either by the top panel controls or from a navigation computer via the RS232 interface. The Meridian is also IMO Wheelmark and HSC certified.

SPECIFICATIONS

Static Accuracy	0.05 degrees RMS sec Latitude
Settle Point	0.1 degrees sec Latitude
Settling Time	<40 Minutes to within 0.7 degrees
Follow Up Speed	200 degrees per second
Latitude Compensation	80 degrees North to 80 degrees South
Speed Compensation	0 to 90 Knots
Serial Output Strings	NMEA 0183
Serial Interface Types	RS232, RS422, 20mA
Stepper Output	TTL Level 1/6 degree resolution
Synchro Output	26v 400Hz reference
Power Requirements	24VDC @ 2 Amps
Dimensions	344mm x 267mm x 440mm
Weight	15.5 Kg



SeaTronics

A Member of the Geac Group

Open Ocean Survey Vehicle



Phantom[®] HD2

- Dependable ROV for offshore inspection and light work tasks
- For use in moderate currents to depths of 1000 ft (300 m)
- Accommodates cameras, sonar, tracking, manipulators and custom tooling

The Deep Ocean Advantage

- Well established company with over 20 years of experience & supply to the ROV industry.
- Over 450 ROV systems delivered.
- Broad international customer base, with clients in over 30 countries.
- Applications:
 - Military, customs & police.
 - Search & recovery.
 - Nuclear & hydro-electric plant integrity.
 - Offshore oil & gas
 - Scientific research
 - Underwater filming
- Strong, resilient and rugged system design.
- Dedicated customer service & support.
- Internationally acclaimed products.
- Ability to integrate tooling & sensor packages

Phantom[®] HD2 Applications

- Outfall/Intake inspections.
- Jack-up and template inspections.
- NDT inspections.
- Mooring and anchor chain monitoring.
- Telecommunication cable inspection.
- Mine countermeasures.
- Body and evidence recovery.
- Oceanographic survey.
- Fisheries research.
- Environmental surveys.
- Marine archeology.

Features

- Superb video quality, $\pm 90^\circ$ camera and light tilt
- Hardwired Phantom control system — easy to troubleshoot and add accessories
- Shock-mounted full perimeter stainless steel crash frame for rugged protection and durability
- Interchangeable components with DOE Phantom Spectrum vehicles
- Enhanced vehicle stability with low center of gravity and torque-balanced horizontal thrusters
- Can be simply up-graded to **Phantom HD2+2**



Specifications

General

Weight:	91kg	(200lb)
Operating depth:	300m	(1000')
Overall length:	1400mm	(55")
Overall width:	686mm	(27")
Maximum height:	673mm	(26.5")

Performance - forward thrust

Normal:	25kg	(56lb)
Full:	36kg	(80lb)
Lateral thrust:	7kg	(15lb)
Vertical thrust:	7kg	(15lb)
Payload (with lateral thruster fitted)	4kg	(10lb)

Power requirements

Input Voltage:	100-250vac
Frequency:	50/60Hz
Power Rating:	4.5kva
User Power Available	
– Instrumentation:	24vdc @ 6A
– Auxiliary Power:	80vdc @ 0.6A

Lights: Tungsten-halogen 2 X 250 Watt. 3 settings

Camera

DOE 18:1 optical zoom high-resolution color camera.
PAL/NTSC >470 Lines— 1/3" CCD.
Sensitivity 1 Lux @ f1.4
Auto-iris, wide angle lens, viewing angle 7–58°
Auto/Remote focus select.
External motorized camera tilt $\pm 90^\circ$
Built-in video switch for 2nd Camera
1,000 m rated, recessed and hardened port

Instrumentation

Fluid-gimbaled fluxgate compass: Accuracy: $\pm 3^\circ$
Electronic depth gauge: Accuracy: $\pm 1\%$ fsd.
Auto heading, auto depth: Standard
Audio feedback of ROV condition.
Leak detector.
Onscreen graphic video display.

Standard Umbilical Tether

Lengths: 169m (550'); 338m (1100'); 646m (2100')
Diameter: 20mm (0.8")
Weight in fresh water : Neutral

Options

- Easy up-grade to HD2+2. Thrust:91kg/200lb.
- Sonar
- Navigation and tracking systems
- Additional cameras & lights.
- Set additional buoyancy. +3kg/6.6lb payload.
- Customized versions available.
- DOE single function manipulator.
- Sensor packages.
- Additional components on request