HYDROBALL™

HydroBall™ Buoy

The HydroBall™ buoy is a fully-autonomous solution for bathymetric data acquisition. Its spherical design and robust shell casing have been engineered to make the HydroBall™ buoy most effective in perilous whitewater areas (e.g. river gorges, high-flowing river, very shallow water). The 40cm spherical shell encloses* a singlebeam echosounder, a GNSS receiver and a digital compass.

* See behind for detailed specifications

MULTI ÉLECTRONIQUE

TECHNICAL SPECIFICATIONS

	HydroBall™	HydroBall™-Pro
DIMENSIONS	Diameter: 0.4m (16 inches)	Diameter: 0.4m (16 inches)
WEIGHT	13kg (28 pounds)	13kg (28 pounds)
POWER CONSUMPTION	1.5V D-cell (x8)	6V gel-cell (x6)
BATTERY LIFE (in operation)	24h	24h
CONNECTION	RS-232	USB
GPS	**Standalone mode** 15m (95%) **DGPS (SBAS) mode** <3m (95%) Update Rate: 1Hz	**Standalone mode** 2.5m (95%) **DGPS (SBAS) mode** 0.6m (95%) **Post-Processed (PPK) mode** 0.02m (95%) Update Rate: 10Hz
DIGITAL COMPASS	**Heading** Level: 1.0° 0° to ±30°: 3.0° ±30° to ±60°: 4.0° **Pitch, Roll** 0° to ±30°: 0.4° ±30° to ±60°: 1.0° Update rate: 8Hz	**Heading** Tilt < ±20°: 0.5 **Pitch, Roll** Tilt < 20°: 0.4° Tilt > 20°: 0.6° Update rate: 10Hz
DEPTH SOUNDER	Frequency: 235kHz Beam width: 12° Range: 0.5m to 100m Update rate: 1Hz	Frequency: 500kHz Beam width: 6° Range: 0.3m to 50m or 0.1m to 10m Depth Resolution: 0.025% of depth Update rate: 10Hz
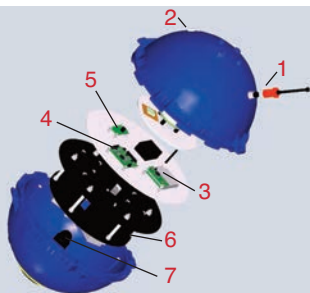
1-Communication antenna
2-Light indicator (LED)
3-GNSS receiver
4-ME processor and datalogger
5-Digital compass
6-Battery pack
7-Depth sounder

APPLICATIONS

TRADITIONAL HYDROGRAPHIC SURVEY

Its fast deployment makes the HydroBall™ buoy an efficient alternative to classical pole-mounted single beam echosounder used in traditional hydrographic surveys.

ULTRA-COASTAL ZONE SURVEY

Mounted on an amphibious vehicle, the HydroBall™ buoy can produce continuous land-sea profiles for integration of continuous land and sea data.

DEALER

MULTI ÉLECTRONIQUE
www.multi-electronique.com

1, 8ème Avenue
Rimouski (Québec) – Canada - G5L 2L9
418-724-5835

TECHNOLOGY
DEVELOPED BY

www.cidco.ca

CIDCO