



PORPOISE

SINGLE CHANNEL UNDERWATER ACOUSTIC MONITORING

The PORPOISE underwater noise recording & signal processing system has taken all the processing power and real-time data streaming capabilities of its big brother the ORCA, and compressed that into a compact and streamlined single-channel package.

With highly configurable sampling rates, intelligent on and off scheduling, configurable hydrophone settings, and real-time data processing, PORPOISE is truly the smartest single-channel system available.



turbulentresearch.com

Today, more than ever, pipelines need to be safer & more efficient.

Turbulent Research pipeline solutions includes world class intelligent pig tracking & communications technologies combined with simple, easy to use, powerful data collection and software visualization and analysis tools.



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The Porpoise Mini

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SPECIFICATIONS	PORPOISE	PORPOISE MINI
POWER	Internal Power: Alkaline D Cells (user replaceable). External Power: 10-30 V DC.	Internal Power: Alkaline D Cells (user replaceable). External Power: 10-30 V DC.
ANALOG INPUT CHANNELS	Number of Channels: 5 - Standard (more available on request). ADC Number of Bits: 16 - Standard (24 bit version available on request). Sampling Rates Supported: 24 KHz, 48 KHz, 96 KHz, 192 KHz, 384 KHz, 768 KHz	Number of Channels: 5 - Standard (more available on request). ADC Number of Bits: 16 - Standard (24 bit version available on request). Sampling Rates Supported: 24 KHz, 48 KHz, 96 KHz, 192 KHz, 384 KHz, 768 KHz
HYDROPHONE OPTIONS	Universal micro circular connectors for most hydrophones. Hydrophones mounted on end cap, or connected with custom cable lengths. Customized sensitivities and bandwidths available on request.	Universal micro circular connectors for most hydrophones. Hydrophones mounted on end cap, or connected with custom cable lengths. Customized sensitivities and bandwidths available on request.
MEMORY	2x 512 GB SD Card and up to 2 TB SSD. Configurable recording, schedule and duty cycling.	2x 512 GB SD Card and up to 2 TB SSD. Configurable recording, schedule and duty cycling.
COMMUNICATIONS	Ethernet - Programming & Live Streaming. High Speed USB for Download. RS422.	Ethernet - Programming & Live Streaming. High Speed USB for Download. RS422.
ENVIRONMENTAL	200m or 1000m depth rated (deeper available on request). Operating Temperature: -10°C to +50°C.	200m or 1000m depth rated (deeper available on request). Operating Temperature: -10°C to +50°C.

**INTERNAL 2TB
RECORDING**

**REAL TIME STREAMING
AUDIO AND
SPECTROGRAM**

**EXTREMELY
LOW POWER**

✓ Interesting Face or Key Feature goes here

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TRAC

View and analyze your data within minutes of recovery.

Every transmitter sold includes free analysis and visualization software, PigView-Analytics, for easily viewing and processing embedded sensor data such as 9 axis IMU (3D acceleration, 3D Gyro, 3D Compass) and Pressure/Temperature Profiles.



BUILDING INTELLIGENT TECHNOLOGY.

Turbulent Research is a high technology company built on the talent in engineering, signal processing, and product development of its employees.

Founded in 2013, Turbulent Research began by building a broad range of underwater acoustic products for subsea use in oil & gas, underwater construction and ocean science.

In 2015, Turbulent Research teamed up with Propipe Ltd., a major player in the design & manufacture of pipeline pigs in the UK to develop new subsea acoustic pig tracking products.

turbulentresearch.com

North American Sales:

sales@turbulentresearch.com
1 (902) 417 2015

Outside Sales:

groupsales@propipe.co.uk
+44 (0) 1429 872927