DIGITAL SCIENTIFIC ECHOSOUNDERS

BioSonics, Inc. – World Leader in Digital Scientific Echosounder Technologies

DT-X

DIGITAL SCIENTIFIC FISHERIES ECHOSOUNDERS

- **Fish and Marine Life**
- **Submerged Aquatic Vegetation**
- **Bottom Classification & Bathymetry**

DT-X Series Features

- Rack-mountable for larger vessel installations
- Advanced multiplexing capabilities
- BioSonics renowned digital transducers, split beam and single beam available in:
  18, 38, 70, 120, 200, 333, 420 kHz, and 1 MHz
- DGPS, integrated orientation and other external sensor inputs

Applications

- Mobile surveys to assess fish and marine life,
- Determine fish population and total biomass
- Species discrimination with multi-frequency observation
- Assess and map submerged aquatic vegetation
- Seafloor substrate classification
- Bathymetric mapping

Performance Features

- System Noise Floor: Extremely quiet -140dB
- Dynamic Range: Greater than 160dB
- Ping Rates: Selectable from 0.01 to 30 pps
- Pulse Duration: Selectable from 0.1 to 1.0 ms
- Range Settings: User selectable to +1500 m
- Transmit Power: User selectable from 100 to 1000 Watts rms

BioSonics Visual Acquisition™ Software

- Real time data acquisition, visualization, storage and playback.
- Multiple echograms, Windows-based
- Target bulls eye and oscilloscope tools

BioSonics

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BioSonics, an authorized reseller of the Panasonic TOUGHBOOK

DT-X Series Technical Specifications and Features

Dimensions

- DT-X Echosounder Fits Standard 19” Rack
- Height: 3 U (rack units)
- Adjustable depth sizes available (16”- 24”)

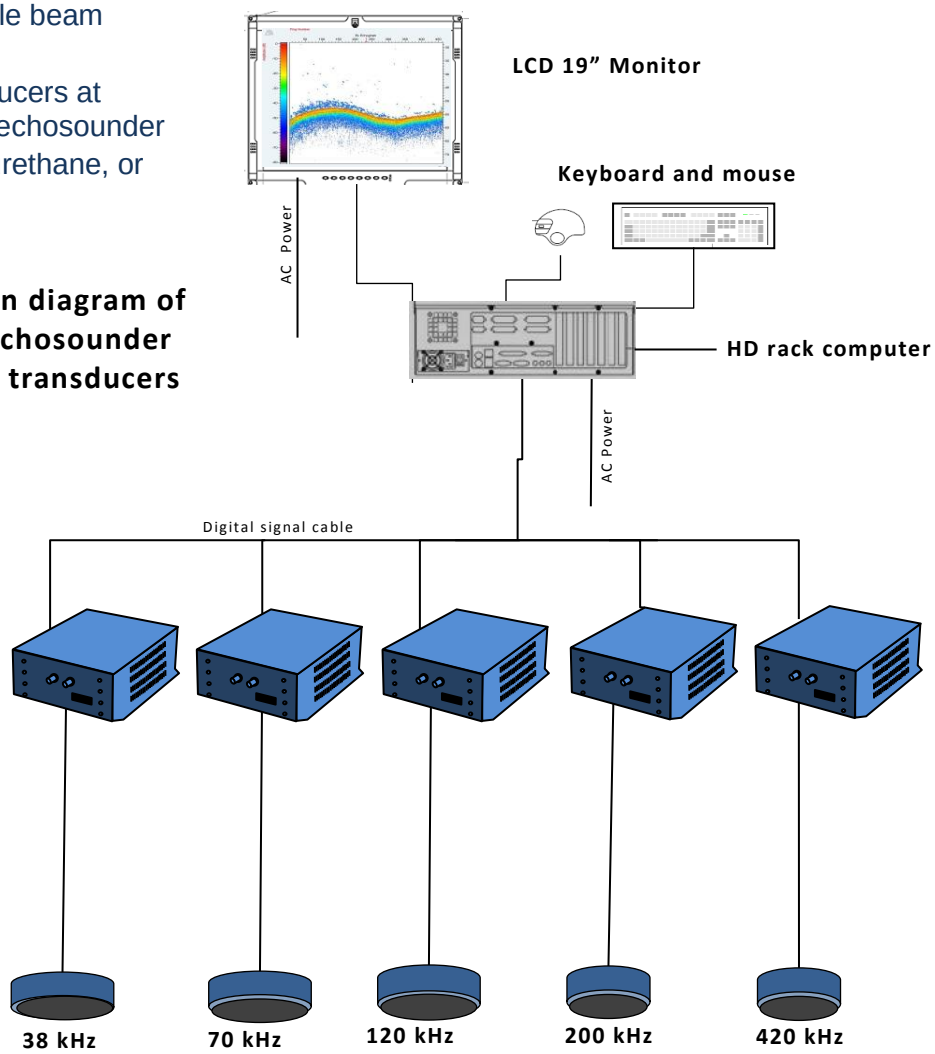
Power Requirements

- 10-14 Volts DC or
- 85-264 Volts AC
- 30 Watt consumption

Transducers

- Standard frequencies;
  18, 38, 70, 120, 200, 333, 420 kHz, and 1 MHz
- Scientific grade split beam or single beam
- Ultra-low side lobes to -35 dB
- Network up to six separate transducers at distinct frequencies from a single echosounder
- Heavy duty anodized aluminum, urethane, or bronze housings available

Echosounder Surface Unit

- Fully programmable, multiple transducer, multiplexing configuration
- Military grade connectors
- Self diagnosis and calibration on start-up
- High resolution, full color echogram
- Numerous, user selectable, software controlled configuration, display and data storage options
- Integrated orientation and other external sensor inputs

Sample configuration diagram of scientific fisheries echosounder with five split beam transducers