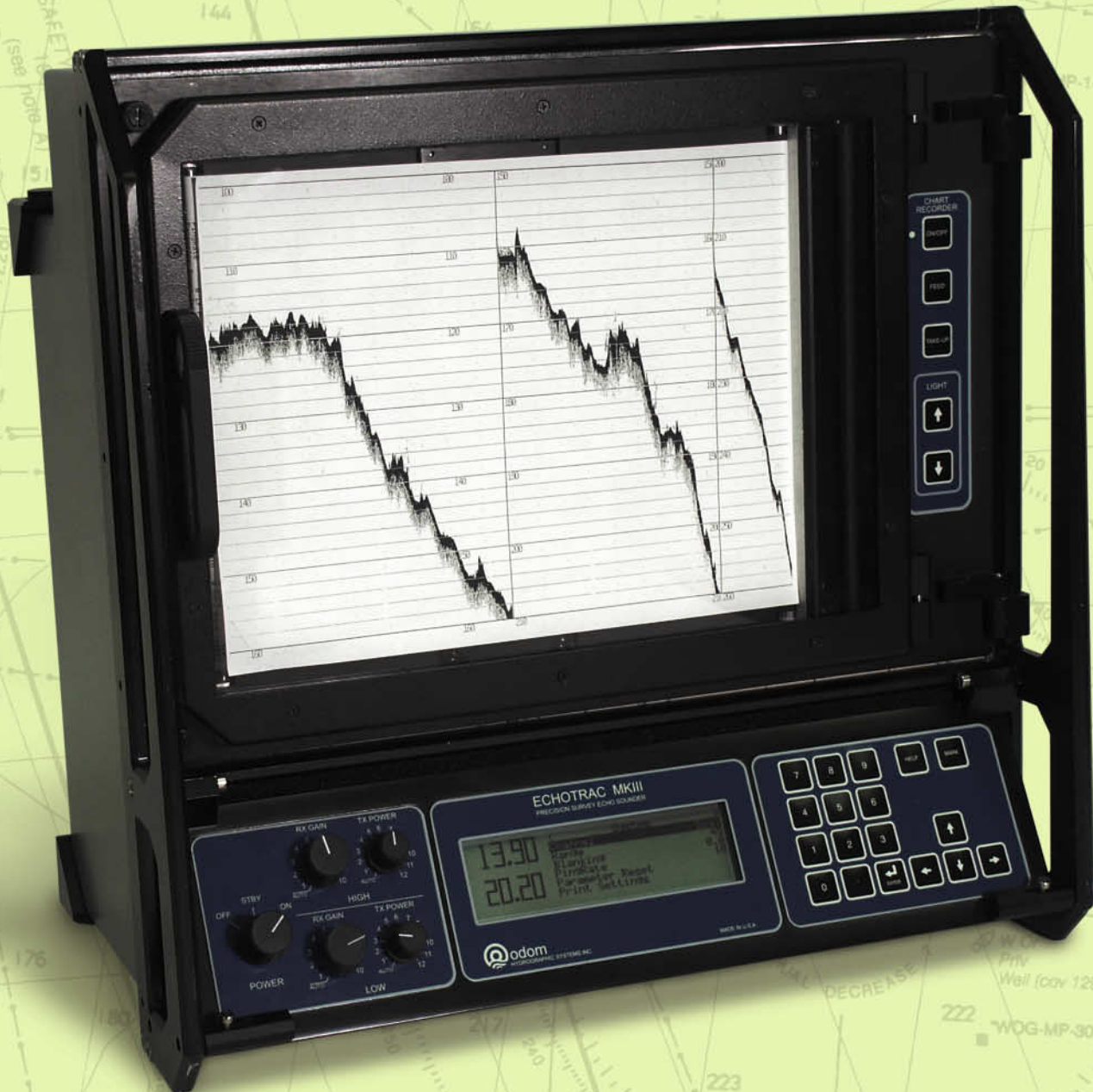


odom  
**Echotrac**<sup>TM</sup>

MODEL DF3200 MKIII



- INTERCHANGEABLE PAPER CHART OR COLOR LCD
- MULTI-FREQUENCY AUTO TUNING (BOTH CHANNELS)
- INTERNAL DATA STORAGE AND PLAYBACK WITH COLOR LCD
- 4 SERIAL PORTS AND ETHERNET INTERFACE
- OPTIONAL BUILT-IN DGPS
- AC/DC POWER INPUT

FOLLOWING ON FROM THE SUCCESSFUL MKII, THE MKIII IS AN ENTIRELY NEW DESIGN INCORPORATING CUTTING-EDGE TECHNOLOGY AND FEATURES IN A MORE COMPACT PACKAGE. THE ECHOTRAC MKIII IS THE ONLY SURVEY ECHO SOUNDER THAT HAS INTERCHANGEABLE, PLUG AND PLAY MODULES, FOR A HIGH-RESOLUTION THERMAL PAPER RECORDER AND A FULL SIZE COLOR LCD CHART WITH DATA STORAGE AND PLAYBACK. BOTH HIGH AND LOW CHANNELS FEATURE AUTO FREQUENCY TUNING TO PRECISELY MATCH THE TRANSDUCER TO THE TRANSDUCER. THIS ELIMINATES SURFACE NOISE CAUSED BY TRANSDUCER RINGING AND INCREASES ECHO STRENGTH. FREQUENCY TUNING IN 100 Hz (LOW FREQ.) AND 1 kHz (HIGH FREQ.) STEPS CAN BE MANUAL OR AUTOMATIC FROM 750 kHz TO 10 kHz, THUS MATCHING A WIDE VARIETY OF DIFFERENT TRANSDUCERS, INCLUDING SIDE SCAN. OPERATOR SELECTABLE TVG CURVES OPTIMIZE THE MKIII FOR BOTTOM DETECTION OR SIDE SCAN OPERATION. THE ECHOTRAC MKIII FEATURES 4 SERIAL PORTS AND ETHERNET INTERFACE FOR MAXIMUM DATA INPUT/OUTPUT FLEXIBILITY. TYPICAL INPUTS ARE FROM HEAVE COMPENSATORS AND DGPS RECEIVERS. OUTPUT FORMATS ARE ODOM, ATLAS DESO 25, NMEA 0183 AND HEAVE. POWER INPUT IS 110-220 V AC / 24 V DC.

**SPECIFICATIONS:**

**Frequency**

- High: 100 kHz – 750 kHz
  - Low: 10 kHz – 50 kHz
- [Automatic tuning or manual in 1 kHz steps (high) and 100 Hz steps (low)]

**Output Power**

- High: 100 kHz – 1000 W RMS max  
200 kHz – 900 W RMS max  
750 kHz – 300 W RMS max
- Low: 12 kHz – 2500 W RMS max  
50 kHz – 1500 W RMS max

**Input Power**

- 110 or 220 V AC / 24 V DC 50 watts

**Resolution**

- 0.01m / 0.10 ft.

**Accuracy**

- 0.01m / 0.10 ft. ± 0.1% of depth @ 200 kHz
- 0.10m / 0.30 ft. ± 0.1% of depth @ 33 kHz
- 0.18m / 0.60 ft. ± 0.1% of depth @ 12 kHz (corrected for sound velocity)

**Depth Range**

- 0.2 – 200m / 1.0 – 600 ft. @ 200 kHz
- 0.5 – 1500m / 1.5 – 4500 ft. @ 33 kHz
- 1.0 – 6000m / 3.0 – 20,000 ft. @ 12 kHz (excluding external influences)

**Depth Scales**

- 10,20,40,80,100,200,400,800,1600 m.
- 30,60,120,240,300,600,1200,2400,4800 ft.

**Phasing**

- Automatic scale change, 20% overlap or Manual

**Printer**

- High resolution 8 dots/mm (203 dpi), 16 gray shades
- 216mm (8.5") wide thermal paper or film
- External ON/OFF switch
- Paper advance control

**Paper Speed**

- 1cm/min. (0.5"/min.) to 22 cm/mm (8.5"/min.)

**Sound Velocity**

- 1370 – 1700 m/s.
- Resolution 1 m/s.

**Transducer Draft Setting**

- 0 – 15m (0-50 ft.)

**Depth Display**

- 240 x 64 pixels transfective LCD with backlight 8 lines

**Clock**

- Internal battery backed time and date clock

**Annotation**

- Internal – date, time, GPS position
- External – from RS232 port

**Interfaces**

- 4 RS232 and RS422 serial ports, baud rate selectable 4800-19,200.
- Inputs from external computer, motion sensor, sound velocity.
- Outputs to external computer, remote display
- Outputs with LCD chart – video out
- Ethernet interface
- Heave – All sensors

**Blanking**

- 0 – to full scale

**Installation**

- Desk top, bulkhead, rack mount

**Help**

The function of each parameter and it's minimum and maximum values can be printed on the paper chart. Also a record of all set parameters can be printed on the chart.

**Environmental Operating Temperature**

- 0°- 50° C, 5-90% rel. humidity, Non-condensing

**Dimensions**

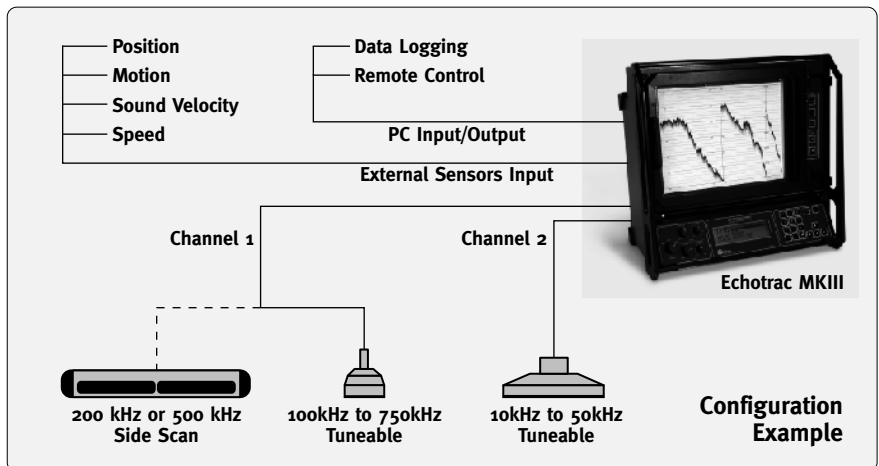
- 450mm (17.7") H x 450mm (17.7") W x 300mm (11.8") D

**Weight**

- 15.9 kg (35 lbs.)

**Options:**

- LCD Electronic Chart – 310mm (12.2"), 800 x 600 pixels, 16 color, active matrix. Viewable in full daylight. PCMCIA data storage to 1GB.
- Remote Display
- Side Scan Transducer – single channel side looking 200 kHz or 500 kHz for search and reconnaissance.
- Built-in DGPS



**odom**  
HYDROGRAPHIC SYSTEMS

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