Hydrographic Echo Sounder Survey System with Built-In Precision Trimble RTK GNSS Positioning.

The CEESCOPE™ RTK BD970 is CEE HydroSystems latest “all in one” hydrographic echo sounder, including a fully integrated Trimble Maxwell™ 6 OEM GNSS receiver, scalable from L1-only to high precision RTK. The CEESCOPE™ is a complete single beam survey system in a compact and waterproof case, including a dual channel single beam echo sounder, internal battery power, touchpad LED user interface, data logger, UHF radio for receiving RTK corrections and now the Trimble multi-constellation BD970 receiver. This latest CEESCOPE™ design is aimed at surveyors using existing Trimble site base station networks, to ensure compatibility with GNSS receivers broadcasting RTK corrections in Trimble data formats. The CEESCOPE™ allows convenient user access to the Trimble receiver through a standard web browser interface, for easy adjustment of settings and uploading firmware and activations. Cell phone VRS (Trimble CenterPoint™ RTX) corrections may be received through the CEESCOPE RTCM port or direct Ethernet inputs.

CEESCOPE Echo Sounder Specifications:
- Weight: 3.6 kg (8lbs)
- Ping Rate: 1 - 20Hz
- Depth Range: 0.2 - 200m (0.6 - 650 ft)
- Transducers: 24 kHz, 33 kHz, 200 kHz
- Accuracy: 1cm ± 0.1% of depth
- Echogram: 3200 samples per ping
- Output: Ethernet, Bluetooth, RS232
- Data logger: USB interface, 16GB
- Battery: Run time 6 hrs
- External: 12V or 110/240V AC
- RTK: Satel 3AS UHF 400-470MHz

CEESCOPE Internal GNSS Specifications:
- Channels: 220
- Type: Maxwell™ 6 OEM BD970
- Signals: GPS L1/L2/L5, GLONASS L1/L2, P1/P2, BeiDou B1/B2, GALILEO L1 BOC/E5A/E5B/E5AltBOC, QZSS L1/L2/L5, SBAS: L1/L5
- Ports: 1x Ethernet, 1X RS232
- Reference: CMR/CMR+/SCMRX/RTCM2/RTCM3
- Output: Up to 20Hz
- NMEA out: Yes
- RAW data: No
- Accuracy: Single baseline RTK:
  - H: 0.008m +1ppm
  - V: 0.015m +1ppm
  - DGPS: 0.25m (H) 0.5m (V)
  - SBAS: 0.5m (H) 0.85m (V)