INSTALLATION



DATA EXAMPLE: DREDGE SURVEY / BERTH CLEARANCE



Specifications subject to change without any further notice.

www.kongsberg-mesotech.com

E-mail: km.sales.vancouver@kongsberg.com Telephone: +1 604 464 8144 Toll-free: +1 888 464 1598



APPLICATION NOTE

M3 BATHY

M3 BATHY SHALLOW-WATER BATHYMETRIC SURVEY SYSTEM ing imaging sonar. The M3's innovative design solves this tech-**High Performance at Low Cost** nical challenge by using 2 sets of complementary transducers in powerful, affordable, entry-level turn-key survey system. M3 the same head. The M3 generates both imaging and swath data Bathy features an incredibly small sonar head and convenient in the same head. Point it down for bathymetric topside with no need for an additional processing unit, just a measurement; point it forward with a slight downward tilt for commercial laptop. Special rack mounts are not required. M3 seafloor imaging; point it forward for obstacle avoidance, point it Bathy delivers excellent quality bathymetric data at very low cost sideways for structural inspection or vessel hull inspection. removal using vessels of opportunity. Pitch, Roll, Heave Correction The M3 Bathy takes pitch, roll and heave correction inputs from Fast, Easy Plug-and-Play Set-Up and Take-Down Kongsberg Seatex's MRU-3. User can also select the optional MRU-H for increased performance. Wide Shallow-Survey Swath at 9.5 kts In bathymetric mode, the M3 Bathy is designed to operate in water depths up to 75m under ideal conditions, with a full 120 degree swath. In imaging mode, the M3 Bathy ranges from Preconfigured Survey Acquisition and Processing Software 0.2m to 150m, with a range resolution of 1 cm. The M3 Bathy is pressure depth rated to 500m. The M3 Bathy has been operated with stable pole mount deployment at speeds up to 9.5 kts. and the M3 Software. The M3 Bathy operates seamlessly with Global Support – Kongsberg Reliability and Quality The M3 Bathy is supported globally by Kongsberg's network Software (included in the system price)*. Optional mosaicking of Service Centres. This makes the M3 Bathy Shallow-water software to create real-time mosaics of imaging data is also Bathymetric Survey System the best choice for a rugged, reliable. easy-to-operate, affordable instrument for shallow survey and available. inspection needs. Proven M3 Series MultiMode Multibeam Sonar The core of the M3 Bathy is Kongsberg Mesotech's proven M3 Applications Pipeline profiling survey

The M3 Bathy Shallow-water Bathymetric Survey System is a of ownership. It is designed for rapid installation, operation and The M3 Bathy is a complete plug-and-play system that is supplied in rugged, re-usable equipment cases. The M3 Bathy includes all required sensors for deployment. It can be set up by 2 people in under an hour using the Quick Start Guide. Experienced users can set up and deploy the system in 15 minutes. The M3 Bathy provides excellent survey data at very low cost. All sensors are input to a lap-top computer that is preconfigured with the user's specified Survey Acquisition and Processing Software HYPACK, EIVA, and QINSy Survey Acquisition and Processing

Series MultiMode Multibeam Sonar. The M3 Sonar is the only instrument in its price point that produces high-quality imaging records and 3-D bathymetric datasets using the same sonar head. Bathymetric multibeams have different requirements than imaging sonars. Bathymetric multibeam sonar needs a wide opening angle across track, and narrow beam along track angle. A forward-looking imaging sonar needs a wide beam across track and wide beam along track. This is why it's impossible for a conventional bathymetric sonar to function well as a forward-look-



KONGSBERG



- · Dredging monitoring and verification
- · Engineering inspection of small ports and harbours infrastructure
- · Shallow water survey
- · Dam, bridge pier, outflow and cooling water intake inspections

*Hypack is available now; QINSy and EIVA coming soon

SYSTEM CONFIGURATION



DESIGN

Rugged Pole-Mount Design Protects Cabling

Wet-end cabling passes through the pole mount, protecting the cables in operation. Cabling is protected from insulation chafing due to vibration at all critical points of contact. The straight cable connectors allow use of the minimum possible pole diameter, thus minimizing pole weight, hydrodynamic drag and turbulent flow, and simplifying handling during assembly and take-down.

Convenient Integrated SIU Cable Management

The Surface Interface Unit (SIU) is designed for fast, convenient operator set-up. All cabling is pre-installed in the SIU with waterproof cable glands. The SIU is delivered in an equipment case sized for the SIU and all coiled cabling. This provides for secure shipping, organized cable management, and rapid set-up and takedown during and after surveys.

DATA EXAMPLE: STRUCTURE INSPECTION AND SURVEY



