

Wide-Band High-Resolution Multi-beam



The wide-band high-resolution multi-beam EM 2040 was released at FEMME 2009 user conference in Lisbon (Portugal). The EM 2040 is designed to meet all requirements for shallow water mapping and survey inspection. This is achieved through resolution and performance, including the ability to fulfill required along track coverage at twice the survey speed.

The EM 2040 is flexible and can be used for multiple applications: 400 kHz for very high resolution inspection, 300 kHz for near-bottom survey and 200 kHz for deeper waters. It has integrated several advanced functions, such as:

- Dual swath per ping to allow twice the survey speed
- FM chirp to achieve a much longer range capability
- Complete roll, pitch and yaw stabilization
- Nearfield focusing both during transmit and receive
- Modular system with beamwidths of 0.5x1, 1x1 and 1x2

The basic EM 2040 consists of four units; transmit transducer, receive transducer, processing unit and an operator workstation. The EM 2040 has a standard depth rating of 6,000m and is fully prepared for installation and operation on subsea vehicles such as AUVs and ROVs.