

## Kongsberg M3 Sonar on Teledyne Seabotix Observation Class ROV



The Kongsberg M3 Sonar system can be mounted on the <u>Teledyne Seabotix vLBV Observation Class ROV</u>. The M3 Sonar is a 2D multibeam echosounder system with sophisticated imaging and profiling capabilities. It provides high-resolution and easy-to-interpret images by combining the rapid refresh rate of conventional multibeam sonar with image quality comparable to a singlebeam sonar.

The M3 Sonar integration package developed by Teledyne Seabotix enables detection of small objects at distances of more than 150 metres combined with a 120° to 140° field of view, allowing the operator to see the complete underwater picture in real-time. It features multiple modes for multiple applications, GeoTIFF output, multiple true zoom windows, and CHIRP and Doppler modes of operations.

## **Two Transducers**

The M3 Sonar includes two distinct transmitters. The eIQ enhanced image quality transmitter operates at 500kHz and provides clear images well past 150m range. The VVBT variable vertical beam-width transducer allows the operator to reduce the across-path beam height from 30 degrees to 15 degrees and even 7.5 degrees, to reduce surface returns in images. The VVBT transducer generates point cloud data that integrates with Hypack and QPS Qinsy software.

Teledyne Seabotix's Tool Skid Mount allows the Kongsberg M3 Sonar to be installed in two modes: forward looking or downward bathymetry. The integration package includes flotation and trim weights to adjust trim of the vLBV with the M3 Sonar installed. Testing of the vLBV with the M3 Sonarhas demonstrated high stability while operating at full speed.

https://www.hydro-international.com/content/news/kongsberg-m3-sonar-on-teledyne-seabotix-observation-class-rov