Small Target Detection





SMALL OR MOVING TARGETS

The Small Target Detection option helps radar operators see echoes that are otherwise hard to detect. It is ideal for navigating in coastal waters, for performing search and rescue operations, or for any situation that requires detection of small or moving targets.

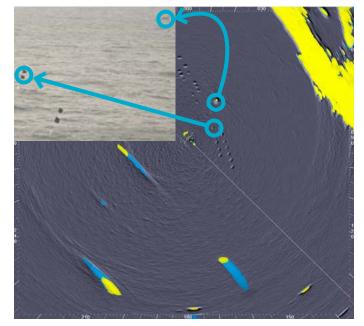
MAIN FEATURES

Relief Underlay

Provides an additional image layer behind the normal echoes on the radar display. This layer replaces the normal radar background and allows weak echoes - that would otherwise be hidden in clutter - to be presented in clear relief.

Accelerated Replay

Provides continuous replay of compressed radar video from the last 1 minute or 10 minutes (the period is selectable). This feature helps the radar operator either to detect high-speed moving targets (1-minute replay) or to detect the movement of slowly drifting objects (10-minute replay). Figure 1: Targets detected using Relief Underlay; the targets pointed to in the inset photograph are (left) a buoy and (right) a fisherman in a small boat



RELIEF UNDERLAY: TO SEE SMALL TARGETS

The Relief Underlay feature collects radar echoes over a longer time than is traditionally used for radar imaging. This means that clutter and noise (whose signals are of only short duration) can be easily distinguished from weak echoes (whose signals, though weak, are sustained). The clutter and noise are then eliminated and the weak echoes presented in clear relief.

Relief Underlay is especially useful for navigating in coastal areas: fishing gear, shallow waters, low land, and buoys will all show up in clear relief on the display.

For search and rescue operations, Relief Underlay - used in combination with water stabilization - will help the radar operator detect small objects and people floating in the water.

Figure 2: Normal radar, navigation poles hidden in clutter

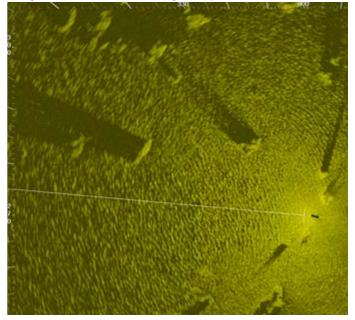
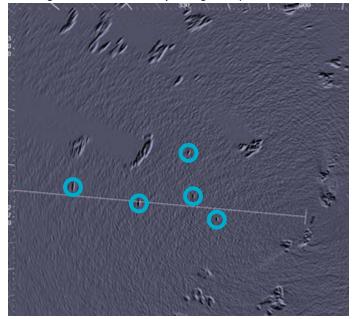


Figure 3: Relief Underlay, navigation poles revealed



Specifications subject to change without any further notice.

ACCELERATED REPLAY: TO SEE MOVING TARGETS

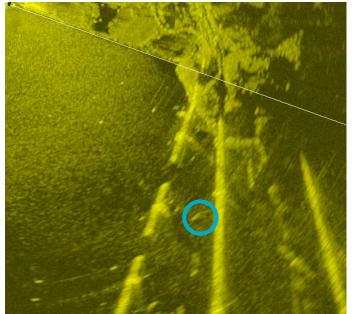
The Accelerated Replay feature helps operators detect moving targets and distinguish false echoes.

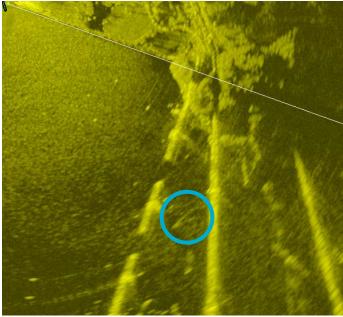
The operator watches an accelerated replay of the last 60 seconds or 10 minutes (the time period is selectable) of radar video on the radar display. The video is compressed into approximately 2 seconds of footage and is continuously repeated on the display for as long as required. As the operator watches, moving targets are instantly revealed by their sudden and rapidly repeated movement.

The 60-second replay is ideal for detecting high-speed vessels.

The 10-minute replay reveals drifting objects whose slow movement is not apparent from the normal radar image.

Figure 4: Accelerated Replay; moving targets are revealed by their jerky repeated movement during playback







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