



Totem ECDIS Unique Features

Totem ECDIS unique features were design to enhance **SAFETY** on board ships:

- 1) **Collision Avoidance:** A revolutionary Decision Support Tool (**DST**) complying with COLERGS. The system not only alerts the Master or OOW to the risk of collision, but also advises the best course or speed change needed in order to avoid collision. The advice given is in accordance with the legal requirements of the International Regulations for Preventing Collisions at Sea 1972 (COLREGS). All the information is calculated automatically for all targets and is continuously refreshed and updated
See more info in paragraph 2.3 below.
- 2) **EDA:** History files can be analyzed by E-navigation Data Audit program to detect near miss events (EDA free copy is available with Every ECDIS). EDA can allow proper auditing on how the bridge team is performing and assist in monitoring the performance of the vessel.
- 3) **GPS validation:** To avoid GPS spoofing, Totem ECDIS is monitoring the difference between DR and GPS positions at all times, and issues an alarm if the difference within a set time, exceeds the set allowed distance.
- 4) **Watch Take Over:** The watch take over procedure, implemented by every officer commencing a watch on the bridge, gives the OOW a clear picture of the system functionality. The procedure ascertains that the system is configured and working properly, sensors information is correct, correct charts are available, license is valid etc. The procedure is logged for future auditing
- 5) **AIS update and AIS messages:** Totem ECDIS enables direct updating of AIS from the ECDIS, sending and receiving AIS messages by the ECDIS using full keyboard capability. This feature was designed to make this operation simple and friendly.
- 6) **Multilingual:** Totem ECDIS has multi-lingual capabilities, and besides English (which is the main language) can change the menu to several other languages of choice.
- 7) **Radar Overlay:** Totem ECDIS has the ability to connect two radars on a single radar overlay card.
- 8) **Planning station or Captain's ECDIS :** A third PC can be connected to the Dual ECDIS by LAN, as a planning station, and receive the serial information over LAN from the Dual ECDIS (no need for dedicated serial interface) (Optional)
- 9) ECDIS screens are transferred by **LAN** to VDR according to IEC61162-450