

WECDIS

Warship Electronic Chart Display & Information System

WEC-100 WEC-200 WEC-300



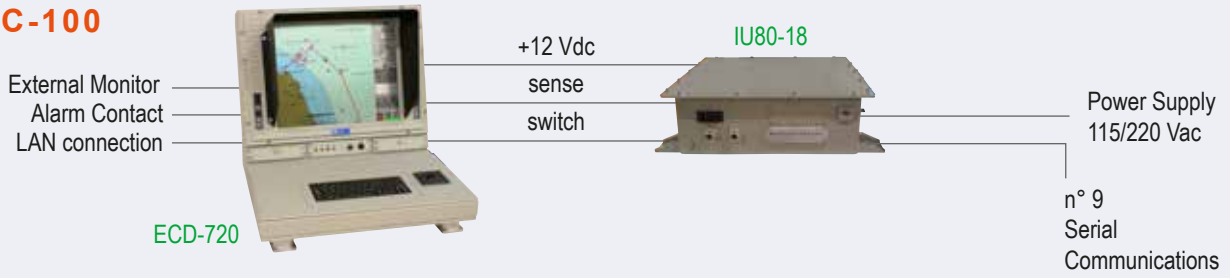
Applications

- Stand-alone or included into integrated bridge systems
- Whatever application requirement full watching and control over navigation plans
- W-ECDIS available through adoption by Additional Navigation Information

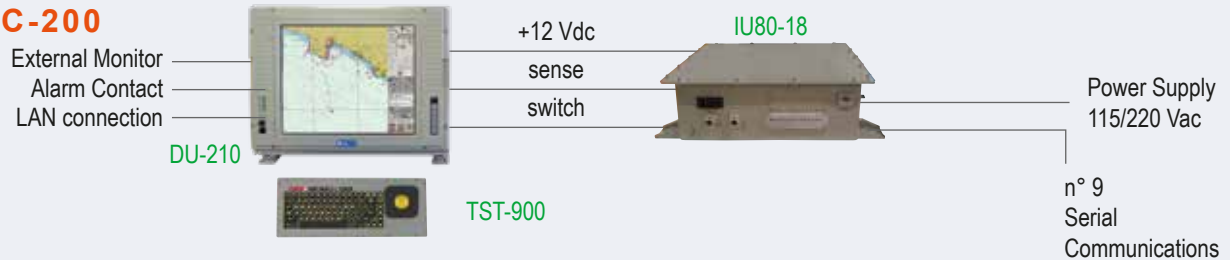
Performances

- Fully IMO compliant as per type approved ECDIS
- Uses IHO S-57 ENC data
- Uses data conforming to NATO Digital Geographic Information Exchange (DIGEST) Standards including Vector Product Format (VPF) and Digital Nautical Chart (DNC)
- Uses Additional Navigation Information (ANI) provided by government hydrographic offices and military sources
- DNV type approved
- Complies also to the characteristics requested from norms STANAG 4564 and 7170 regulating the additional WECDIS functionalities
- Automatically supports the supply of S-57 standard charts, encrypted with the PRIMAR scheme S-63
- Represents AML in S57 format, DNC in DIGEST format
- Connected to the navigation sensors, the console displays the own ship position through graphical symbol overlapped to the cartographic and equipped with data, representing the geographical coordinates and the kinematical characteristics such as the course and speed, true and relative to the water
- Modular structure using COTS components for remarkable growing expansion

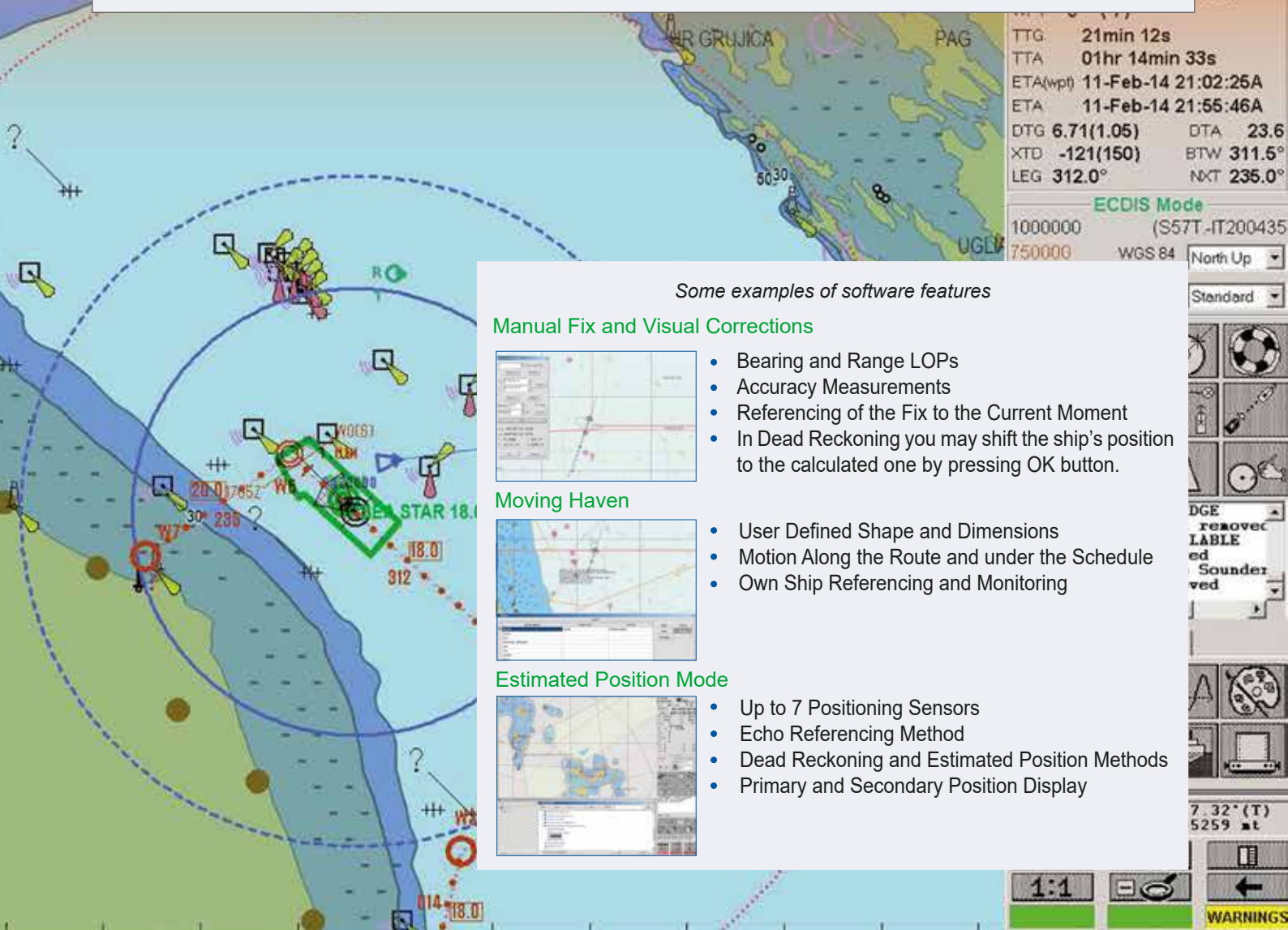
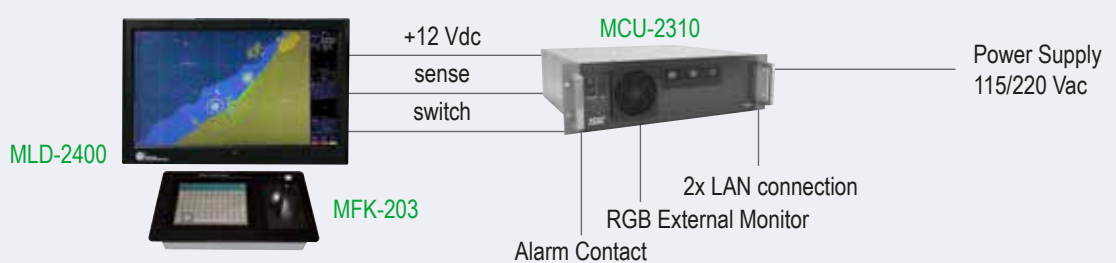
WEC-100



WEC-200



WEC-300

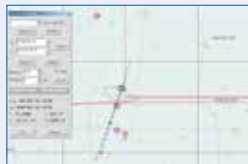


TTG	21min 12s
TTA	01hr 14min 33s
ETA(wpt)	11-Feb-14 21:02:25A
ETA	11-Feb-14 21:55:46A
DTG	6.71(1.05)
XTD	-121(150)
LEG	312.0°
DTA	23.6
BTW	311.5°
NXT	235.0°

ECDIS Mode
1000000 (S57T-IT200435)
750000 WGS 84

Some examples of software features

Manual Fix and Visual Corrections



- Bearing and Range LOPs
- Accuracy Measurements
- Referencing of the Fix to the Current Moment
- In Dead Reckoning you may shift the ship's position to the calculated one by pressing OK button.

Moving Haven



- User Defined Shape and Dimensions
- Motion Along the Route and under the Schedule
- Own Ship Referencing and Monitoring

Estimated Position Mode



- Up to 7 Positioning Sensors
- Echo Referencing Method
- Dead Reckoning and Estimated Position Methods
- Primary and Secondary Position Display



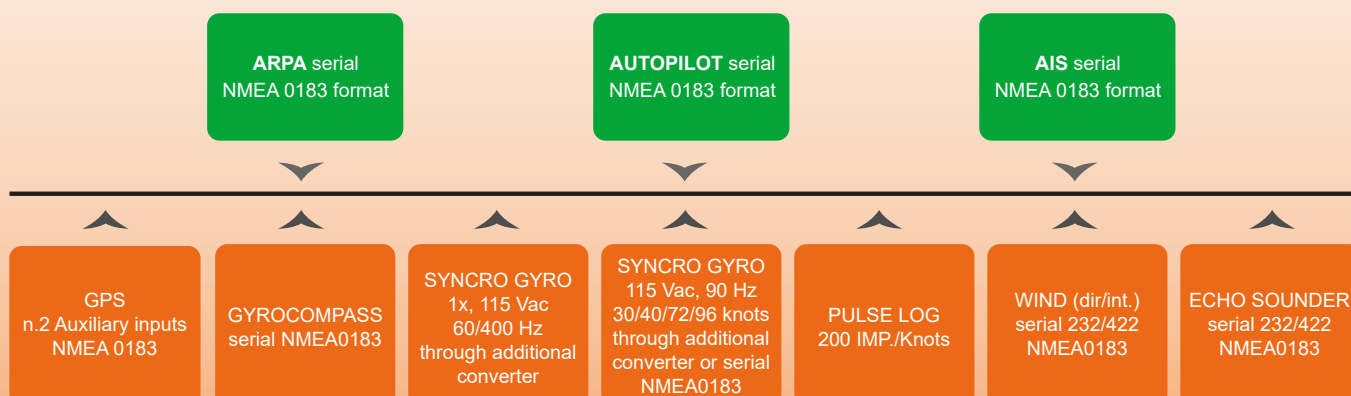
<i>Models</i>	WEC-100	WEC-200	WEC-300
Operating system	Windows 7		
Processor	i7 2.6 GHz		
Main memory	16 GB DDR3		
Memory storage	120 GB SSD		
Removable data storage devices	DVD RW	external	DVD RW
Keyboard	Qwerty		Multifunctional
Monitor Resolution	1600x1200		1920x1080
Dimension	21 inches diagonal		24 inches diagonal
Interface	N.1 Gigabit LAN + N.9 Serial Lines		N.2 Gigabit LAN
UPS	included		external
Technology	S-TFT active matrix		
Self diagnostics	Comprehensive built-in test equipment (BITE) with fault detection and isolation		

Power supply and environmental performances

Operating temperature	From 0°C to +50°C as per MIL-STD 2036 par. 5.1.2.17.1 for internal units
Relative humidity	Up to 95% at +40°C, non condensing
Sanility	As per MIL-STD-2036 par. 5.1.2.12.2
Vibrations	As per MIL-STD-167-1
Drip Proof	As per MIL-STD-108E
Shock (with shock absorbers)	0.5 sine, 30 g for 11 milliseconds
Safety	As per MIL-STD-2036 par. 4.10
EMI	As per MIL-STD-461C methods RE02, CE03, RS03, CS02 and CS06
Power supply	Single phase 220 or 115 ± 10% Vac at 50/60Hz ± 5%
Max consumption	400 W

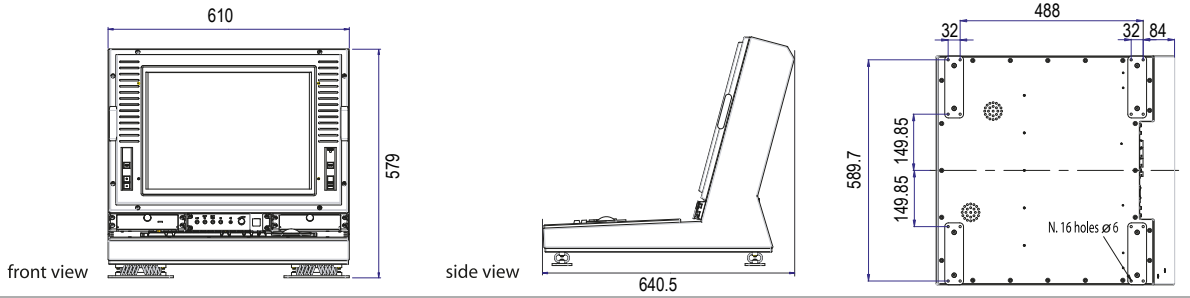
Software performances

- Standard ECDIS as per wheelmark certification by DNV
- The system is able to manage and display additional information for navigation and conduct of warfare onboard warships as defined in NATO STANDARD 4564; the system supports the concurrent access and display of official charts together with AML (Additional military layers) data sets in S57 and DNC in accordance with NATO STANDARD 7170.



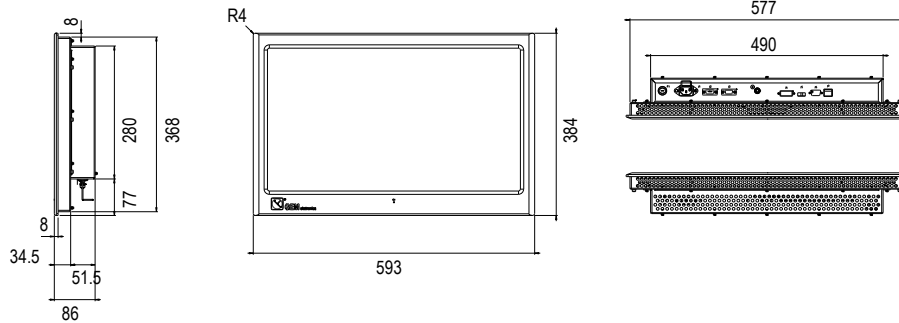
ECD-720

W. 40 Kg



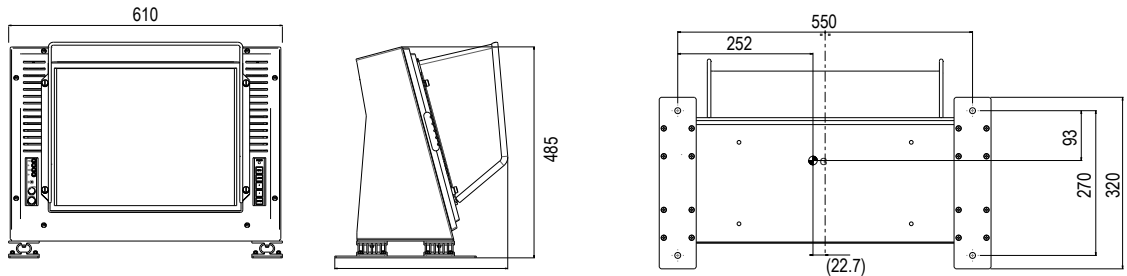
MLD-2400

W. 10 Kg



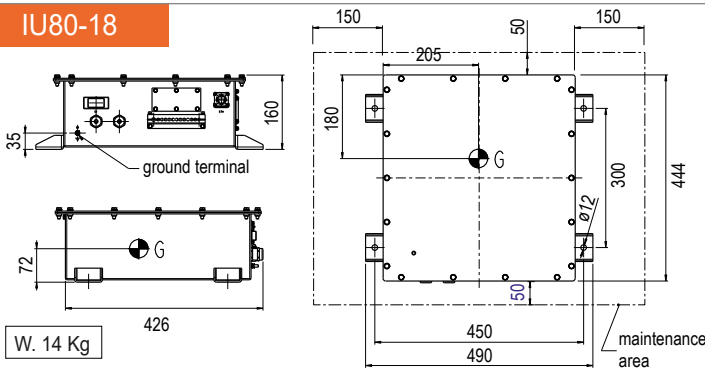
DU-210

W. 22.5 Kg



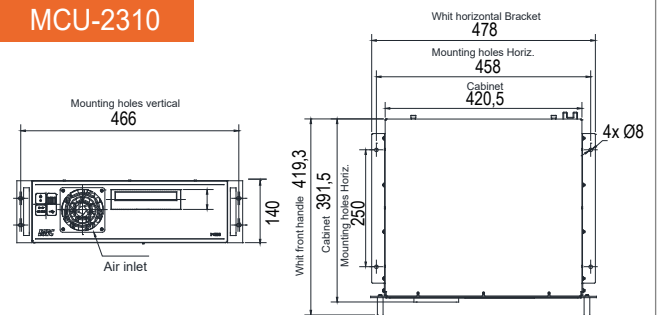
IU80-18

W. 14 Kg



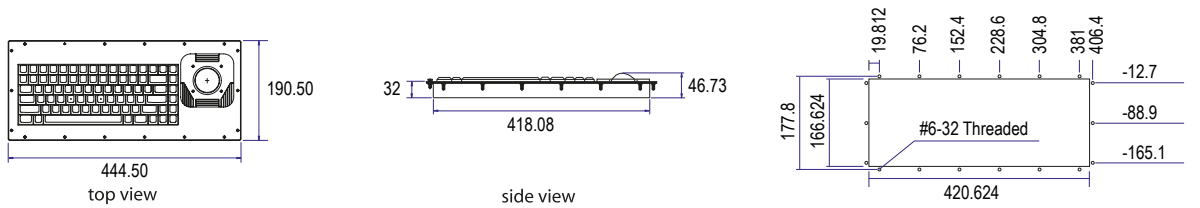
MCU-2310

W. 11 Kg



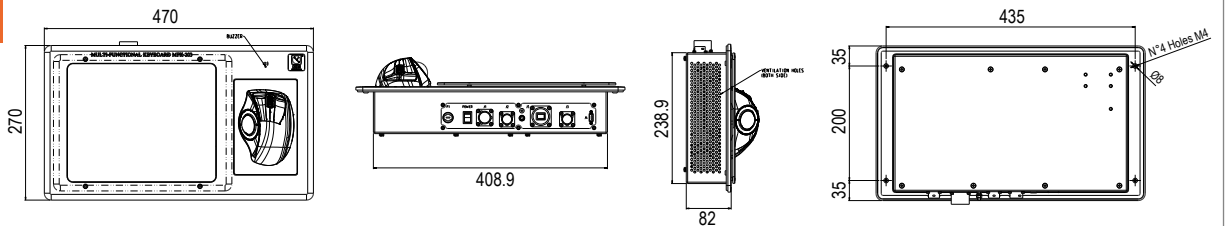
TST-900

W. 2 Kg



MFK-203

W. 7 Kg



Surveillance & Security

Guidance, Navigation & Positioning

Military & Defence

Marine Electronics

This brochure should not be considered a contractual offer. The specifications given herein may be changed by the manufacturer, GEM elettronica, without notice.

