



ECDIS

HES-600

ELECTRONIC CHART DISPLAY
AND INFORMATION SYSTEM

Compliance:

IMO Res A.823(19) / IMO Res A.830(19) / MSC.64 (67),
MSC.86 (70) IMO MSC.252 (83) / IEC 60945 / IEC 61162-1/2/3
IEC 61162-450 / IEC 61924-2 / IEC 62288 / IEC 623888

The HES-600 is developed by HMAP and fully meets the requirement of IMO and the latest IEC standards.
It is type-approved by CCS and DNV and compliant to IMO regulation for paperless navigation.

HES-600

OUR KEY FUNCTIONS

Multiple Chart Format
Auto chart correction **01**

02 Route Planning and
Monitoring

Voyage Optimization
Historical Track Records **03**

04 Radar Overlay

PRODUCT FEATURES

Track control

Track Control System is type approved in conjunction with Highlander Steering Control System, enhancing the safety of navigation.

ENC online update

ENC updates via local and network connection from chart data service suppliers.

Radar Overlay Function

Radar overlay function can be achieved via LAN connection. Radar targets are co-related with AIS targets on chart.

NAVTEX Interface

Real time weather data for voyage optimization to generate fuel efficient routes, supporting decision making in selection of routes.



Chart data display

Supports IHO S-57, S-63, Vector
& Raster Chart format



Chart Display

SYSTEM PARAMETERS

Technical Specification

- Display unit: 24 inch to 26 inch models
- Operating system: Windows 7 (EN)
- Interface

Input: Serial or LAN

Own ship sensor data/ENC /PERMIT /SA CERT IHO
Certificate/Charts UPDATE/External alerts

Output: Serial or LAN

VDR/INS interface/TCS interface/BAMs

Power supply: 115-230 VAC AND 24 VDC INPUT, 300 w

UPS: 115-230 VAC INPUT, 1 KVA

Working environment: IEC 60945 STANDARD

Temperature: -15 to +55 °C

Interface Unit

- Power Supply: 5V DC
- Installation: Desk Mount/Embedded Mount
- Weight: 1kg
- Weight: IEC 60945

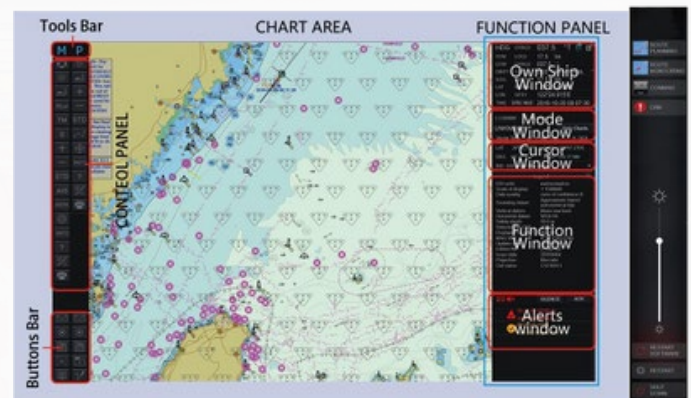
Processing Unit

- Processor: Intel Core
- Internal Storage: DDR3, 8GB
- Storage: SSD 250GB
 - Size (L x W x H): HLD-MCU200 : 320 x 300 x 171mm
HLD-MCU600 : 250 x 283 x 135mm
HLD-MSC100 : 593 x 384 x 76.4mm
HLD-MSC110 : 595 x 393 x 75mm
- Operating Temperature: -15 ~ 55°C
- Storage Temperature: -20 ~ 60°C
- Power: 18~36VDC IN
- Power Dissipation: <100W
- (Up to) Standard: IEC60945
- Weight: HLD-MCU200 : 4.5kg
HLD-MCU600 : 3.5kg
HLD-MSC100 : 11.2kg
HLD-MSC110 : 12.4kg



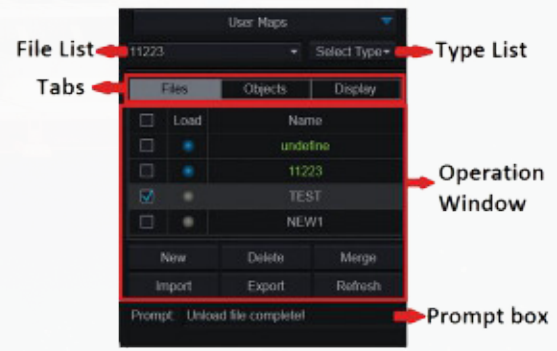
User Friendly Interface

Integrated information display provides overview of situational awareness control functions. Display of 24 "and 26" LCD Marine type approved monitors.



User Training

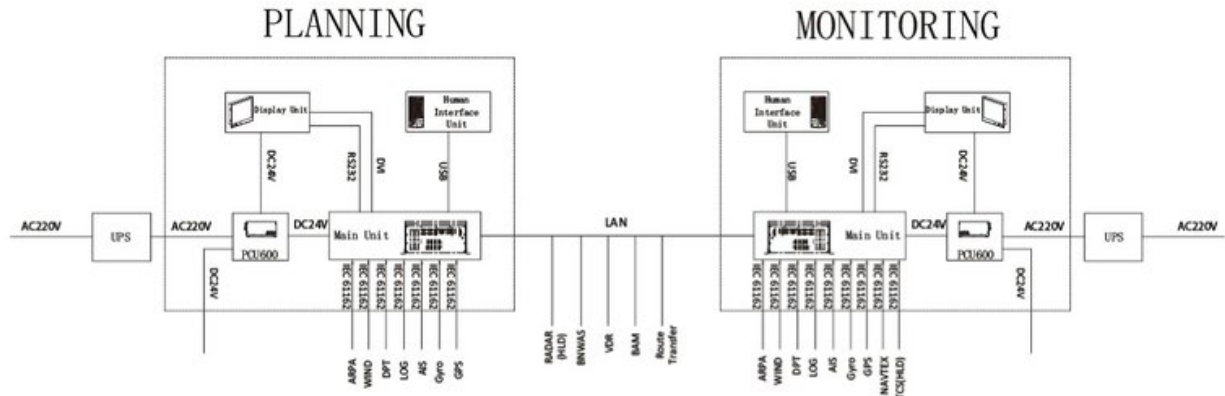
User training can be done within the office environment or online.



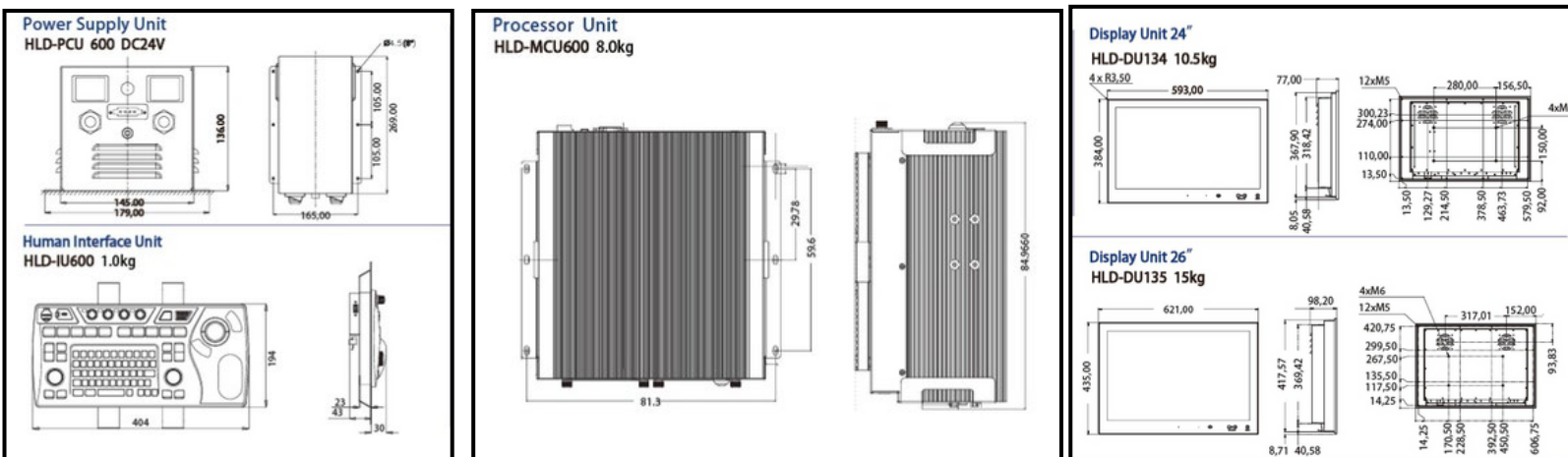
Display Unit Technical Parameters

Model		HLD-DU134	HLD-DU135	HLD-DU140	HLD-DU141
Part Number		HD24T21	HD26T21	MD-224	MD-226
Manufacturers		Hatteland	Hatteland	MOXA	MOXA
Type Approval		DNV-GL	DNV-GL	DNV-GL	DNV-GL
Display Unit	Size	24 "	26 "	24 "	26 "
	Resolution	1920X 1080	1920X 1200	1920X 1080	1920X 1200
	Dimension	593X 384X 77	621 X 435X 98.2	595.3 X 393.3 X 36.7	621 X 444X 90.8
	Weight(Kg)	10.5	15	12.5	15.5
Signal Input		DVI-INGA			
Environment	Temperature	-15~55°C			
	Relative Humidity	0~95%			
	Vibration	5Hz~ 500Hz/1G/3Axis			
	IP	IP66(Front) IP24(Behind)	IP66(Front) IP22(Behind)	IP66(Front) IP22(Behind)	IP66(Front) IP22(Behind)
	Shock	15G (11ms duration)			
Power Supply		115 & 230V AC and 24V DC			
Consumption		40W (TYP) -125W (MAX)	125W (MAX)	40W (TYP) -75W (MAX)	125W (MAX)

Configuration



Dimensional Drawings



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