



VDR

HVR-600/600S

VOYAGE DATA RECORDER

CCS type approval
(EC) MED (B+D) type approval
RS type approval

- Remote diagnosis
- Remote maintenance
- Download &. replay



PRODUCT OVERVIEW

- HVR-600 is HMAP's best and most stable voyage data recorder to date. It is the fruition of nearly two decades of endeavor in the challenging field of maritime black boxes and embodies the wealth of experience gained from VDRs fitted in thousands of seagoing vessels around the World.
- HVR-600 fully meets the requirements of IMO A861(20), MSC 333(90), IEC 61996-1-2013, IEC91996-2, IEC 60945 and MSC.494(104)

PRODUCT FEATURES



STABLE & RELIABLE



EASY TO INSTALL



SMALL & COMPACT



FLEXIBLE



ADAPTABLE



SECURE

- **STABLE & RELIABLE**
The operating system is embedded with software applications that are tried and true, bug-free.
- **EASY TO INSTALL**
Distributed architecture provides for convenience in situating the single elements close to recorded sensors and devices
- **SMALL & COMPACT**
Easily fits into even the most cramped wheelhouse environments
- **FLEXIBLE**
Independent image, serial data, non-standard data acquisition modules, flexible configuration depending on demand, reduces cost effectively.
- **ADAPTABLE**
Can be configured with several data acquisition modules with several accessible signals to meet the recording demands of various ships
- **SECURE**
The data stored in the HVR-600 is tamper-proof, it is not possible to alter or delete it.



TECHNICAL SPECIFICATIONS

MAIN UNIT (MU)

- Power input: AC110/220V, 50-60Hz; DC 24V
- Consumption: < 150W
- Reserve battery: 7AH for not less than 2 hours usage
- Inputs: Audio: 5x audio channels
8x Microphones input
2x VHF audio input
- Ethernet: 10x Ethernet channels (100MBS) for ECDIS, RADAR, etc.
- Integral Long Term Recording Storage Medium
- Dimensions (LxWxH): 600x450x235mm
- Weight: 18kg
- Installation: Wall or bulkhead mounting
- IP Protection: IP22
- Working temperature: -15°C - 55°C

LONG-TERM DATA RECORDING UNIT

- Integrated in the Main Unit
- Memory capacity: 512GB
- Operating system: Linux OS
- Recording Speed: 100MBPS
- Working temperature: -15°C - 55°C

FLOAT-FREE DATA RECORDING CAPSULE - NEW! COMPLIANT WITH IMO Res. MSC.494(104)

- Recording time: not less than 48h
- Memory Capacity: 32GB Operation System: Linux OS
- Operation System: Linux OS
- Standards: IMO A 662(16), IEC61996-2 (2013), IMO Res. MSC.494(104)
- Release mechanism: Auto-release when 4m underwater
- COSPAS-SARSAT EPIRB: Complies with IMO Res A 810(19)

SERIAL DATA ACQUISITION UNIT

- 24x1 EC61162 serial data input
- Selectable Baud rate
- Dimension (LxWxH): 360x260x150mm
- Weight: 8kg
- IP Protection: IP22
- Working temperature: -15°C - 55°C

ASSEMBLY MICROPHONE (AM)

- Frequency Range: 100Hz-12kHz
- Installation: Flush mounting (Indoor) or Wall Mounting
- IP Protection: IP22 for indoor units and IP56 for outdoor units
- Integrated built-in self-test function
- High clarity and quality sensor
- Dimension (LxWxH): 115x67x33.7 mm (indoor)
139x81x64 mm (outdoor)
- Weight 0.4kg (indoor)
0.5kg (outdoor)
- Working temperature: -15°C - 55°C
- IEC61097-2; IEC61096-7 and ITU-RM.633-3:2004 regulations.
- Watertight: up to 10M underwater
- Drop height: 20 meters
- IP Protection: IP56
- Working temperature: -15°C - 70°C

OPERATION UNIT (OPU)

- Display: High-definition touch screen LCD, (800x480 Pixel)
- Human-Machine Interface: User friendly interface, displays all the warnings and alarms
- Data Back Up function
- Dimension (LxWxH): 166.4 x 164.4 x 70mm
- Weight: 0.5kg
- Installation: Flush mounting
- IP Protection: IP22
- Working temperature: -15°C - 55°C

FIXED PROTECTIVE DATA RECORDING CAPSULE

- Recording time: not less than 48h
- Memory Capacity: 32GB
- Operation System: Linux OS
- Standards: IEC61996-2 (2013)
- Dimension (DxH): <t>180x240(mm)
- Weight: 17kg
- Working temperature: -25°C - 70°C

VIDEO ACQUISITION UNIT

- Number of Video Channels: 4x video channels for VGA inputs. High definition up to 1920x1200x60Hz
- Installation of unit can be located near to image source
- Dimension: 360x260x150mm
- Weight: 8kg
- IP Protection: IP22
- Working temperature: -15°C - 55°C

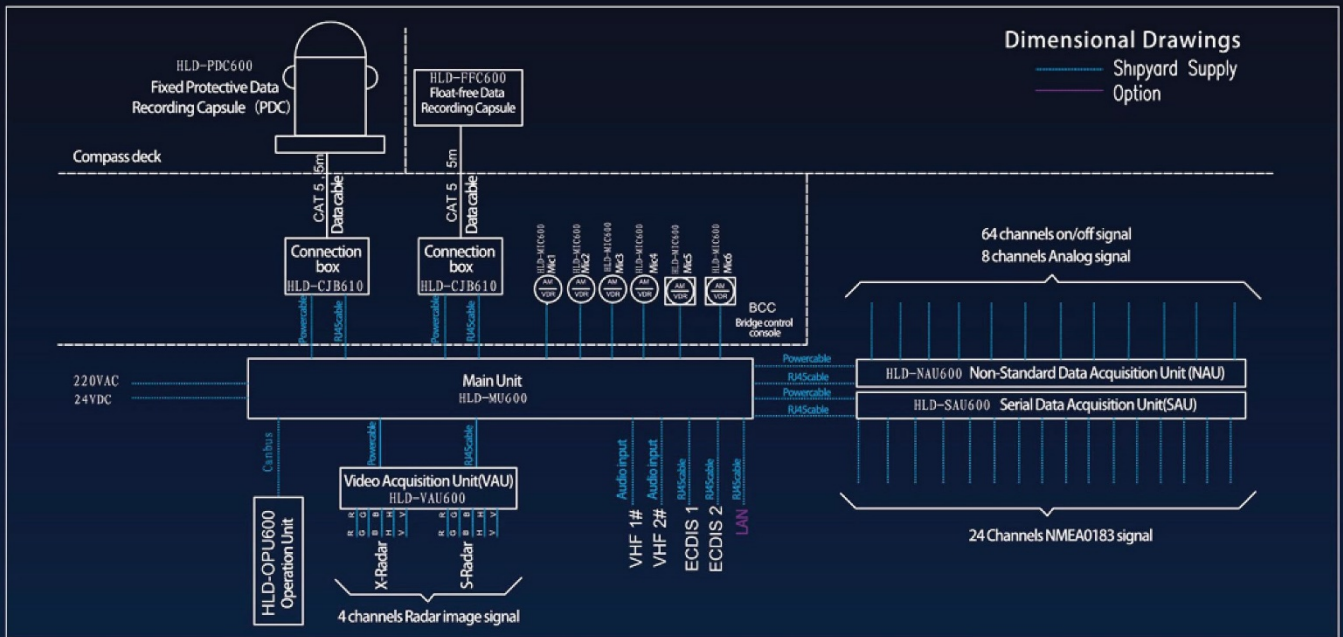
NON-STANDARD DATA ACQUISITION UNIT

- 24x1 EC61162 serial data input
- Selectable Baud rate
- Dimension (LxWxH): 360x260x150mm
- Weight: 8kg
- IP Protection: IP22
- Working temperature: -15°C - 55°C

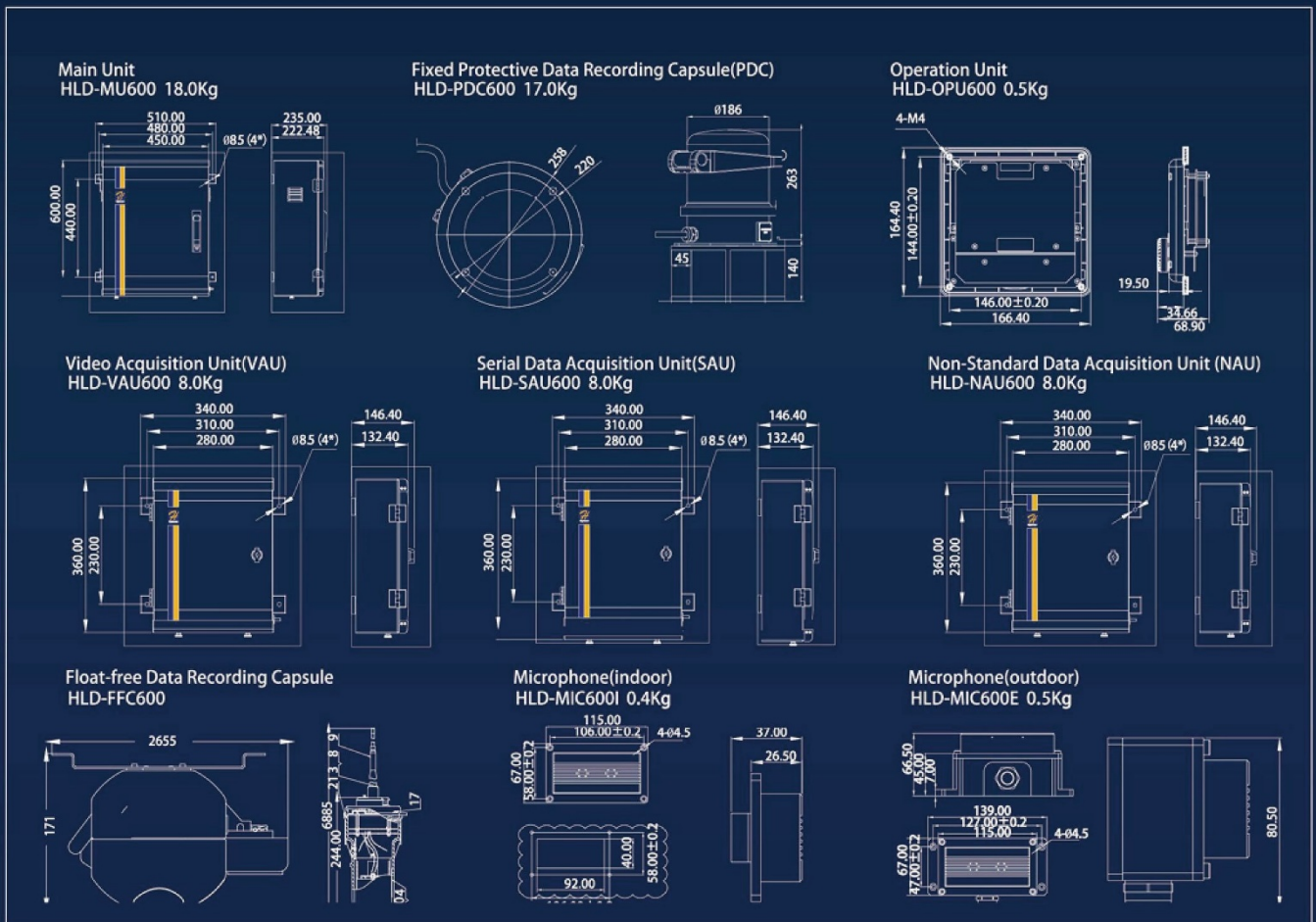
STANDARD CONFIGURATION

- MAIN UNIT (HLD-MU600)
- OPERATION UNIT (HLD-OPU600)
- FIXED PROTECTIVE DATA RECORDING CAPSULE (HLD-PDC600)
- FLOAT-FREE DATA RECORDING CAPSULE (HLD-FFC680A)
- STORAGE UNIT ADAPTER BOX (HLD-CJB600)
- VIDEO ACQUISITION UNIT (HLD-VAU600)
- SERIAL DATA ACQUISITION UNIT (HLD-DAU600)
- NON-STANDARD DATA ACQUISITION UNIT (HLD-NAU600)
- MICROPHONE INDOOR (HLD-MIC600)
- MICROPHONE OUTDOOR (HLD-MIC610)
- PLAYBACK SOFTWARE

SYSTEM ARCHITECTURE



DIMENSIONAL DRAWINGS



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