

Playback Software HiVDR-PL is supplied to enable immediate downloading, playback and real-time viewing of stored data.

This software allows customers to select a display for playback.

The playback is fully interactive with features such as fast forward, rewind, pause and play speed.

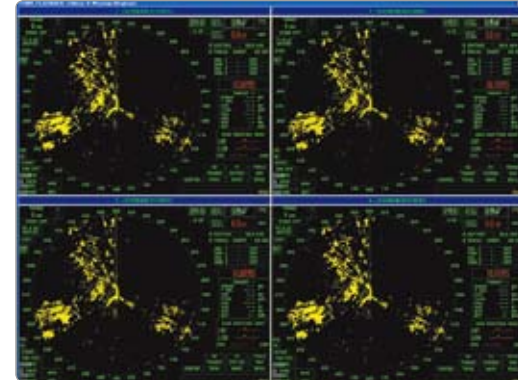


### Navigation

This navigation window consists of several indication fields. All data from the sensor is displayed as a numeral in a proper field to easily analyze situations.

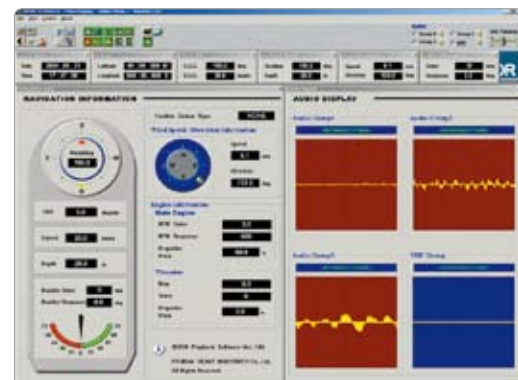
### Display Information

- Date and Time(UTC)
- Latitude & Longitude of Ship
- Heading Angle
- Rate of Turn
- Speed over Ground & Water
- Through Water Depth
- Rudder Order & Response
- Wind Direction & Speed
- Engine / Thruster Information
- Mandatory Alarms



### Image Data

HiVDR-PL provides a 4-in-1 image window. This window replays stored image data captured from Radar / ARPA, ECDIS and other equipment with visual images. Users can enlarge 4 lasted images to a full screen for better inspection.



### Voice Data

Group provides both audible voice signals and visual wave forms from bridge microphones and VHF radios. The data can be replayed by individual group or all group at the same time.

[www.hyundai-elec.com](http://www.hyundai-elec.com)



Hyundai  
Intelligent Voyage  
Data Recorder (Excellent) **hiVDR-E**

**Features**

The **hiVDR-E**

- ▶ has been designed to meet all relevant IMO and IEC requirements.
- ▶ provides amazing flexibility to customize module base structures.
- ▶ allows easy front installation and maintenance with swing rack structures.
- ▶ gives visual satisfaction with graceful designs.
- ▶ provides a user-friendly playback software as an option.

**Standard Function of hiVDR-E**

**Data Management Unit (HiDMU-E)**

is a cabinet which includes Data Processor Unit (HiDPU), Navigational Equipment Integrator (HiNEI), audio and video signal collector, analog and digital signal collector and UPS.

- 16 NMEA Ports
- 16 Analogue Inputs (HiAI16)
- 16 Digital Inputs (HiDI16)
- Interface for One (1) Radar
- Interface for Two (2) VHF Radio Telephone
- Interface for Five (5) Microphones
- 2 Hours UPS (HiUPS-E)

**Remote Alarm Module (HiRAM)**

provides audible and visual alarms for the faulty conditions in the VDR and a remote emergency data save functionality. Also it provides an external relay output for annunciator.

**Five (5) Indoor Microphones (HiMIC)**

**Protective Capsule (12 Hours Recording)**

is a crash-survivable data storage medium, which is capable of retaining data for a period of at least 2 years after the termination of recording.

**Optional Function of hiVDR-E**

- User-friendly Playback Software and PC
- Interface for Second Radar or ECDIS
- Interface for Third VHF Radio Telephone
- Four (4) Additional Microphones Including Outdoor Type (HiMIC-EX)
- Easy Extendable Analog / Digital Input Module (Up to 64 Inputs)



**Data Interface**

The HiVDR continuously records the following data for 12 hours in accordance with IMO Res.861(20) and IEC 61996. Recommended data is listed as follows:

**Navigation Data**

- Date and Time (UTC)
- Ship Position and Datum Reference
- Rate of Turn
- Wind Direction & Speed
- Speed over Ground & Water
- Heading Angle
- Water Depth
- Rudder Order and Response
- Main Alarms Status of All IMO Mandatory Alarms on the Bridge
- Engine Order and Response

**Image Data**

- RADAR / ARPA

**Miscellaneous**

- Hull Openings (Doors) Status
- Watertight and Fire Door Status
- Acceleration and Hull Stress

**Voice Data**

- Bridge Audio
- VHF Radio Telephone

**Configuration of hiVDR-E**

