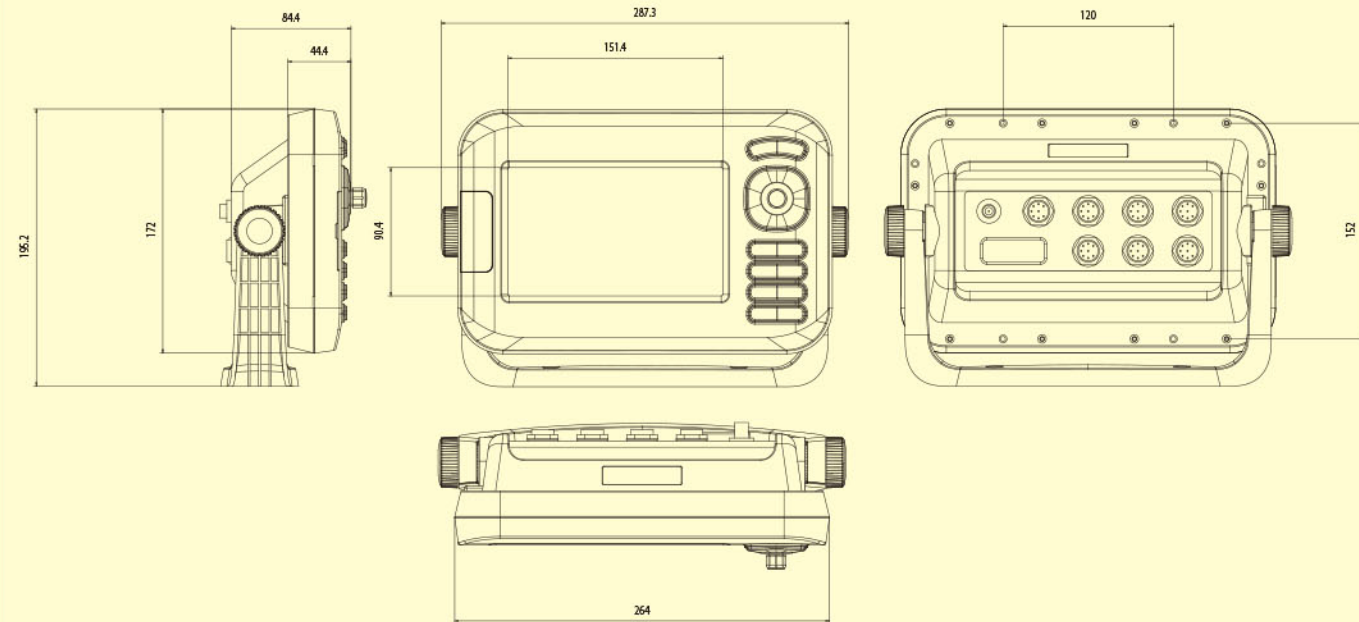
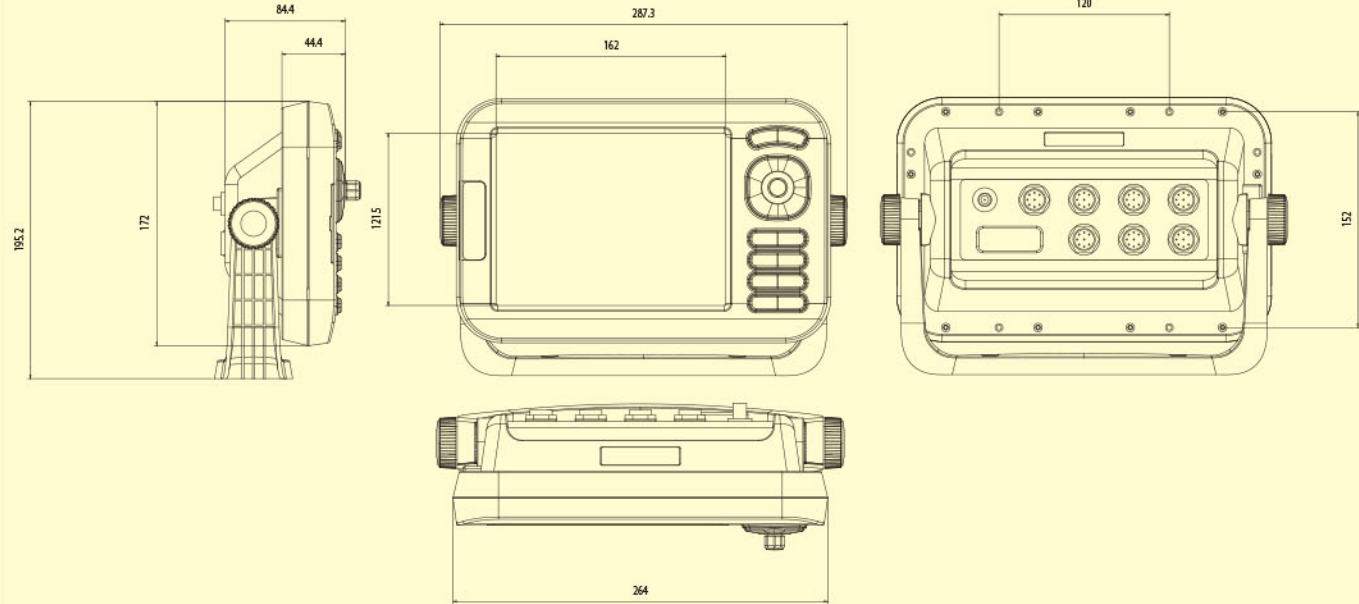


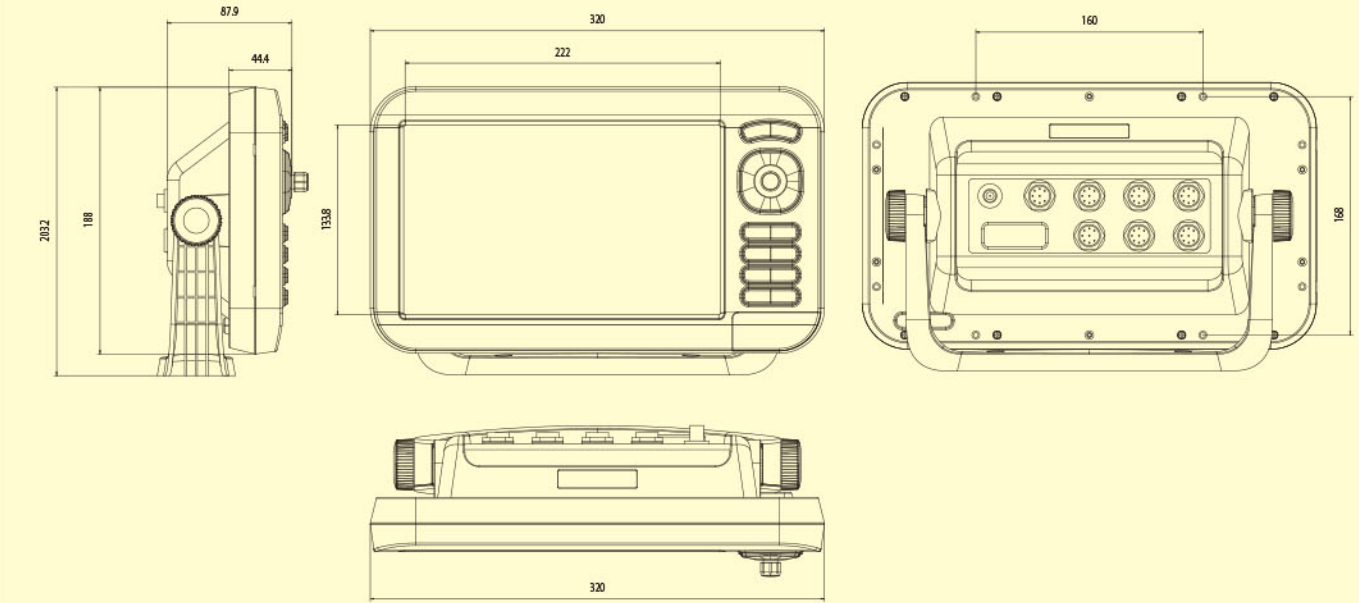
Dimension(Smart 7)



Dimension(Smart 8)



Dimension(Smart 10)



GENERAL SPECIFICATION

1. Display Screen
Smart 7 : 7 inch color LCD with LED backlight
Smart 8 : 8 inch color LCD with LED backlight
Smart 10 : 10.1 inch color LCD with LED backlight
2. Resolution
Smart 7 : WVGA (800 X 480 pixels)
Smart 8 : SVGA (800 X 600 pixels)
Smart 10 : WVGA (800 X 480 pixels)
3. Power Supply
DC 12V~36V(±10%)
4. Operating Temperature
Display Unit -15°C~+50°C
Antenna Unit -25°C~+70°C
5. Performance Standard
IMO Resolution MSC.112(73)

GPS RECEIVER SPECIFICATION

1. GNSS Receiver Capabilities
GPS L1 C/A code
GLONASS L1OF/
QZSS L1 C/A code
Galileo E1B/E1C/L1
2. Number of Channel
52 channels
3. Horizontal Positioning Accuracy
Autonomous 2.5m (CEP 50%)
4. Sensitivity
Acquisition -148 dBm
Tracking -165 dBm
Reacquisition -162 dBm
5. Nav Update
1Hz, 5Hz
6. Support
DGPS
SBAS(EGNOS, WAAS, MASA, GAGAN, GLONASS)

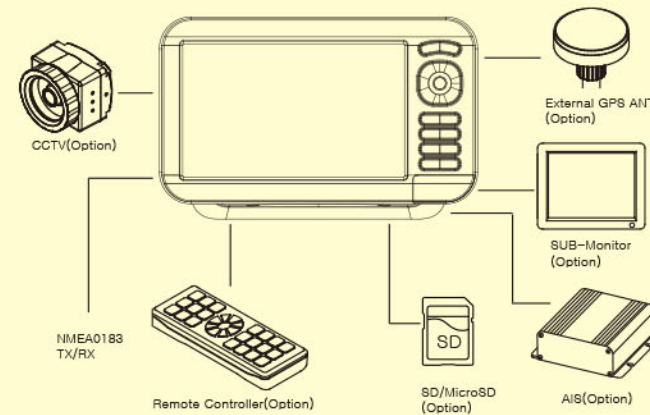
CHARTPLOTTER SPECIFICATION

1. Display Method Mercado Projection
2. Display Mode
True motion / N/S/E/W up / Course up / Head up
3. Latitude Limits Between 85° N to 85° S
4. Map Scale 0.05nm to 1500nm
5. Map Datum WGS-84
6. Waypoint 30,000 points
*Total of 16 colors and 16 icons are selectable each point with name tag (8 alphanumeric characters)
7. Track Point 50,000 points(2 types)
8. Route Max capacity 100 Routes
* 20 WPTs per each Route. Each with name tags (8 alphanumeric characters)
9. Draw Point 1,000 points
10. Area Name 1,000 points
11. Chart Data
HY-MAP(Built-in or External)/ C-MAP/ Navionics
12. Output Data NMEA-0183
13. Input Data NMEA-0183
14. Alarm
Arrival, Anchor, XTE, Interval timer, Userline

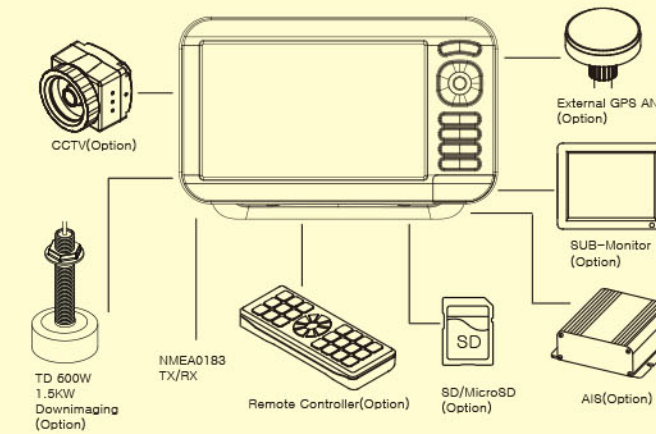
SONAR SPECIFICATION

1. Display Mode
Normal (single/dual-frequency), Bottom-lock, Bottom-zoom, Partial-zoom, A-scope
2. Frequency
Fishfinder : 50 KHZ and 200 KHZ
DownImaging : Over 455 KHZ
3. Output Power
600W/ 1.5KW
4. Range
600W : 2.5m ~ 600m
1.5KW : 2.5m ~ 1,200m
5. Image speed
Fixed 8 speeds (4/1, 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, 1/32) and stop
6. Rejection
Interferences rejection: 3 levels
Noise rejection: 4 levels
7. Function
Gain(auto/manual), Range(auto/manual), Shift(auto/manual), White/Black line
Support speed sensor, Water temperature

Interconnection(Chartplotter)



Interconnection(Combo/Fishfinder)



*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Certified to ISO 9001/2000

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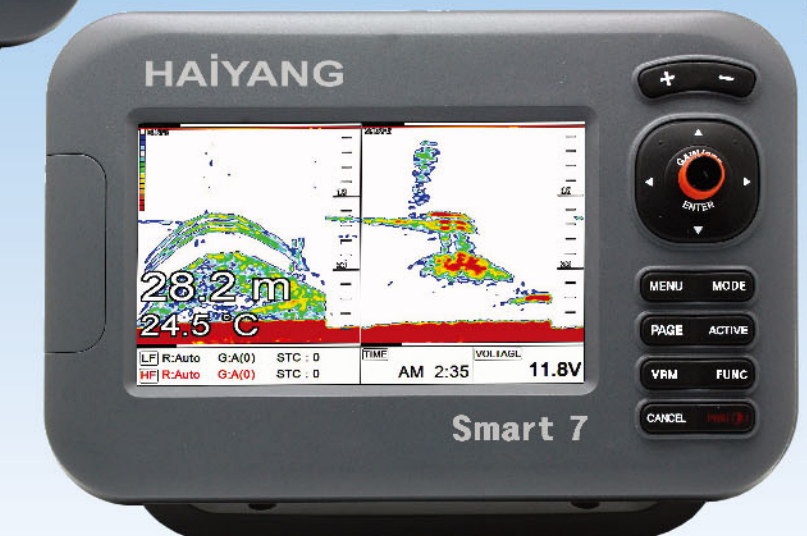
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New Smart HD series



HD-880C
(Chartplotter)



HD-770F
(Fishfinder)

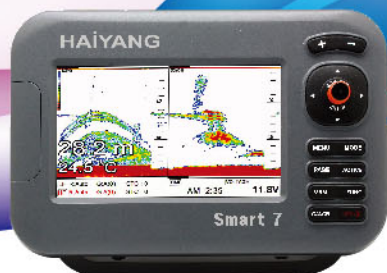
www.haiyang.co.kr



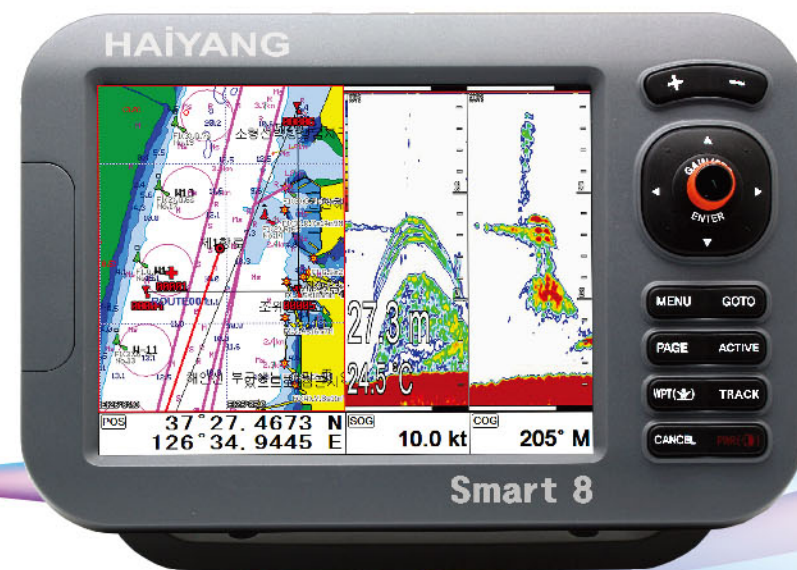
HD-77OCF
(Combo)



HD-770C
(Standalone Chartplotter)



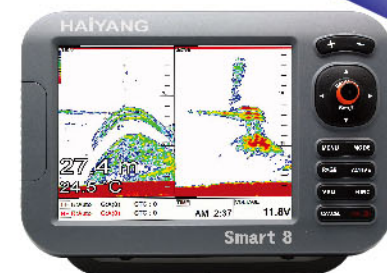
HD-770F
(Standalone Fishfinder)



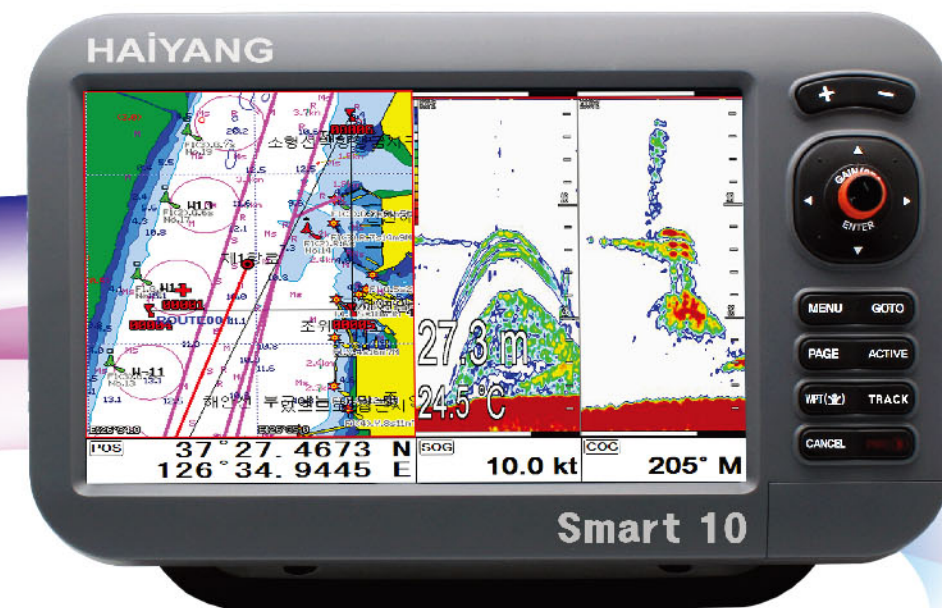
HD-88OCF
(Combo)



HD-880C
(Standalone Chartplotter)



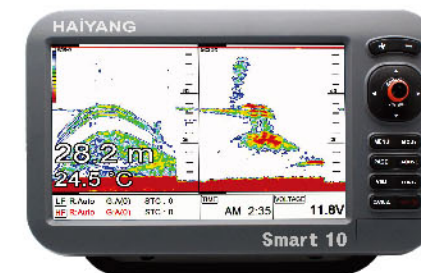
HD-880F
(Standalone Fishfinder)



HD-1000CF
(Combo)



HD-1000C
(Standalone Chartplotter)



HD-1000F
(Standalone Fishfinder)

CHARTPLOTTER SPECIFICATION

LED Backlight Display
Super wide color LED backlight provides the optimum viewing under direct sunlight.

Internal GPS ANT standard
New Haiyang's internal GPS ANT, accuracy of the position. Real-time head-moving is available.
- DGPS
- SBAS(WAAS, etc.)

Various Chart Systems
Three chart systems C-MAP or NAVIONICS HY Chart(Inter/Exter) are available. The most suitable chart is chosen by the user. Lots of information such as buoys, lighthouses, wrecks and tides are provided.

SD(Normal/Mini) support
SD(Normal/Mini) card memory available to store user data(WPT, mark, track, etc) or upgrade new S/W and chart.

Outdoor use
Water/Dust resistant protect against dust, rain or wave in rough condition.

Windows OS
Easy operation with Turbo keys on Windows.

Multi-language
Selection of languages, Korean, English, Italian, Spanish, Chinese, Taiwanese, Vietnamese, Arabic, Thai, Greek, Turkish, Malay, Indonesian, Aarbic, Indian(Hindi, Gujarati) Persian etc.

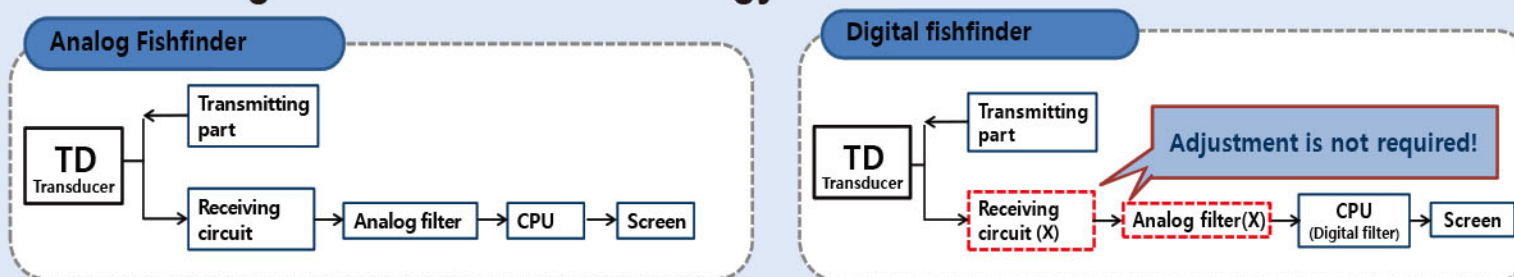
Various AIS information
When connecting AIS, sorting MMSI, Ship's name, nationality, CPA, etc available. Additionally, easy measuring the distance of other ships available with AIS radius. Tracks the movement of up to 5 vessels with track history and optional live details on individual vessels.

CCTV camera
CCTV camera function is standard(Up to 2 PCS available).

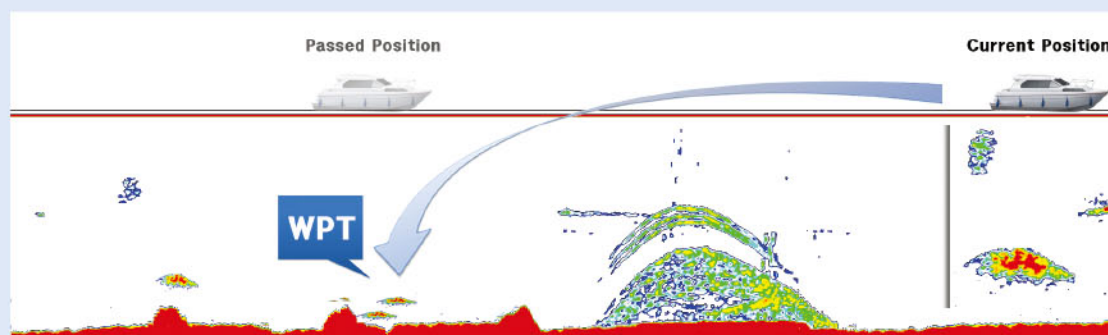
Finder
The finder function supports to search for ports, local tide and current easily.

FISHFINDER SPECIFICATION

What is "Digital fishfinder technology"?



Scrolling The Passed Image

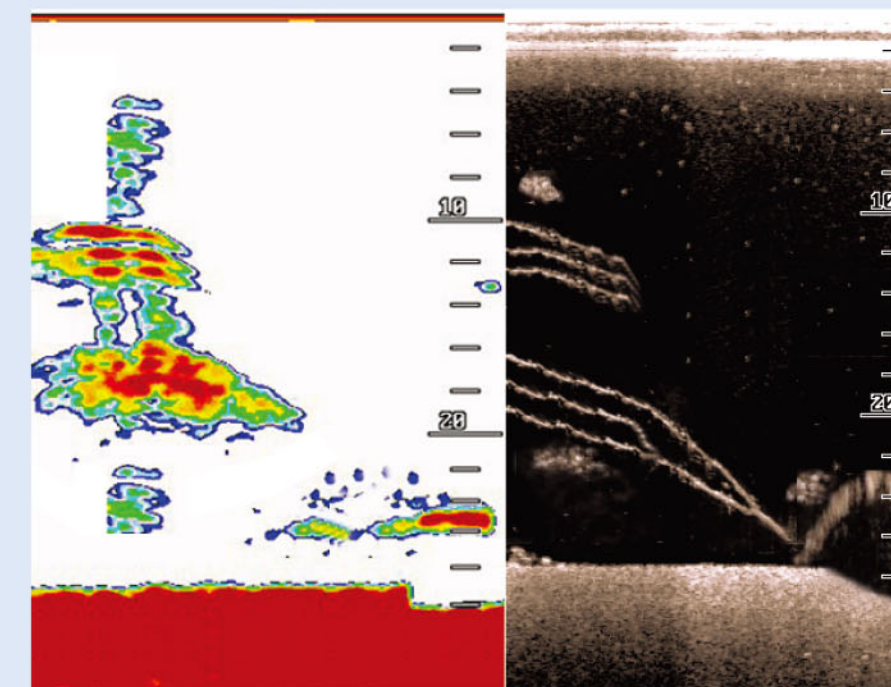


Time-machine function, if you passed or missed any important fishing point or dangerous area, provides you to go back to the passed point.

It is great to find any missed point and as GPS is supporting, it's easy to add the WPT on the MAP.

Hopefully, enjoy your fishing life!

DOWN IMAGING



Fishfinder

Downimaging

What is Downimaging?

The beam angle of the current fishfinder is wider than Down Imaging's, so the incredible downimage is provided by higher frequency sound wave(Higher than 455KHZ) from the downimaging transducer.

While patrolling the water, you will be able to see fish, reefs and wrecks like a portrait, which is quite different from fishfinder image.

