

# Model:HS-102CF



**LED Backlight**



**Multi-language**



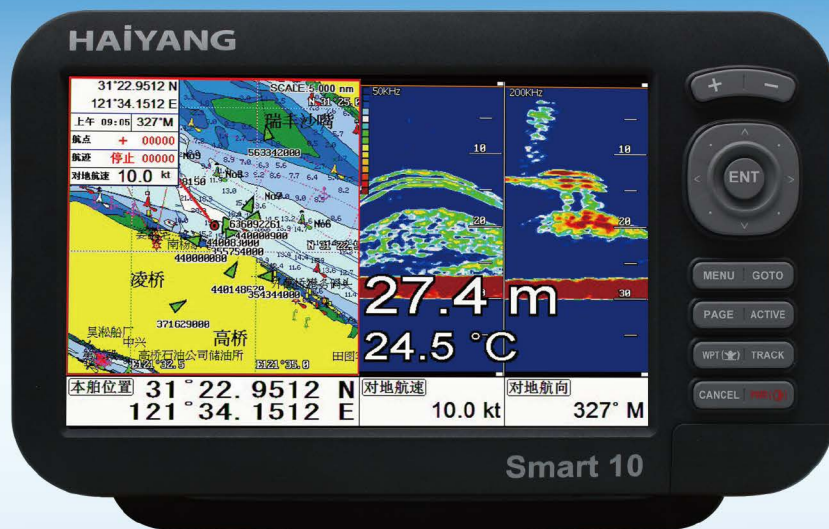
**High Accuracy**



**Digital Fishfinder**



**Various AIS INFO Display**



10.2" ChartPlotter and Fishfinder combo

## General Features

### LED Backlight Display

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

### Multi-language

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

### 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.

### 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.

### Chartplotter feature support

Some chartplotter features support such as GOTO, mark, track, etc.

### Tracking up to 5 vessels independently

Tracking targets up to 5 vessels with the track history and monitoring AIS on target by each vessel.

### Easy to see AIS information

Listing of all vessels with name, MMSI, range and bearing, with full details on each vessel and ability to show different types of vessel by colour, nationalities (up to 4 nationalities) by national flags, and different types of transmission by icon.

### Digital Fishfinder

- Auto-shifting for the bottom
- Digital noise filtering / Water temperature
- High analysis of the underwater
- Dual frequency (50/200KHz) / Full screen(8 inch) supports
- Direct Show the fish symbol on the screen



103-903 Bucheon Technopark 22 Samjakro Ojeonggu  
Bucheon Gyeonggi, Korea

TEL : +82 32 327 4712

FAX : +82 32 327 4713

Web-site : <http://www.haiyang.co.kr>

## GENERAL SPECIFICATION

1. Display Screen  
10.2 inch color touch LED backlight
2. Resolution  
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)
6. Option  
SD, Micro SD, Transducer

## GPS RECEIVER SPECIFICATION

1. Receive Type  
L1 frequency(1575.42MHz), C/A code
2. Number of Channel  
Over 50 channels
3. Accuracy  
Position                2.5m CEP  
DGPS/SBAS            2.0m CEP
4. Sensitivity  
Acquisition            -140 dBm  
Tracking                -149 dBm
5. Data Update Rate  
1 Second
6. Datum  
WGS-84(Standard), 270 different Datums
7. Support  
DGPS, SBAS (WAAS, etc)

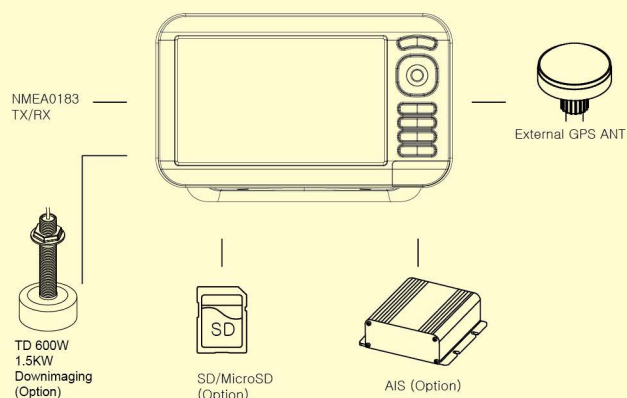
## GPS CHARTPLOTTER SPECIFICATION

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/
12. Output Data                  NMEA-0183, NMEA 2000
13. Input Data                    NMEA-0183, NMEA 2000
14. Alarm  
Arrival, Anchor, XTE, Userline, CPA, TCPA

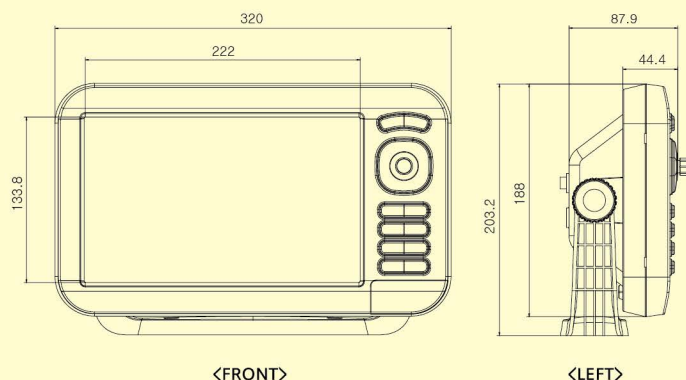
## FISHFINDER SPECIFICATION

1. Display Mode  
Normal (single/dual-frequency), Bottom-lock, Bottom-zoom, Partial-zoom, A-scope
2. Frequency  
Fishfinder                      50 KHZ and 200 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



### Dimension



\*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Certified to ISO 9001/2000

04723H Printed in Korea

Haiyang OLIX CO., LTD.

103-903 Bucheon Technopark 22 Samjakro Ojeonggu  
Bucheon Gyeonggi, Korea

Tel : +82 32 327 4712 Fax : +82 32 327 4713

Web-site : <http://www.haiyang.co.kr>

E-mail : [sales@haiyang.co.kr](mailto:sales@haiyang.co.kr)