GENERAL SPECIFICATION

1. Display Screen
   - VG-10 : 10.4 inch color touch LED backlight
   - VG-12 : 12.1 inch color touch LED backlight
2. Resolution
   - VG-10 : SVGA (800 X 600 pixels)
   - VG-12 : SVGA (800 X 600 pixels)
3. Power Supply
   - DC 12V~36V(±10%)
4. Operating Temperature

Unit	-15°C ~ +50°C
Antenna	-25°C ~ +70°C

5. Performance Standard
   - IMO Resolution MSC.112(73)

GPS RECEIVER SPECIFICATION (C, CF model)

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, 4Hz
6. Support
   - DGPS
   - SBAS(EGNOS, WAAS, MASA, GAGAN, GLONASS)

GPS CHARTPLOTTER SPECIFICATION (C, CF model)

1. Display Method	Mercator 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 1,500NM
5. Map Datum	WGS-84
6. Waypoint	100,000 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 4D
12. Output Data	NMEA-0183
13. Input Data	NMEA-0183
14. Alarm	Arrival, Anchor, XTE, Interval timer, Userline

FISHFINDER SPECIFICATION (CF only)

1. Display Mode
   - *DownImage, Normal, Bottom-lock, Bottom-zoom, A-scope
2. Frequency / Output Power

SS502	200/50kHz(600W)
SS422	200/50kHz(1.5kW)
SS522	340/200/50kHz(600W)

3. Range

600W	2.5m ~ 600m
1.5kW	2.5m ~ 1,500m

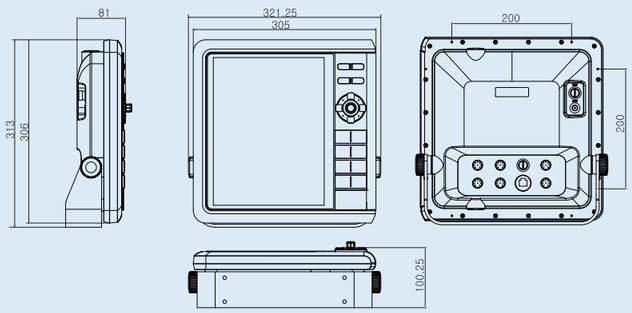
4. Image speed
   - Fixed 8 speeds (4/1, 2/1, 1/1, 1/2, 1/4, 1/8, 1/16, 1/32) and stop
5. Rejection

Interference rejection	3 levels
Noise rejection	30 levels

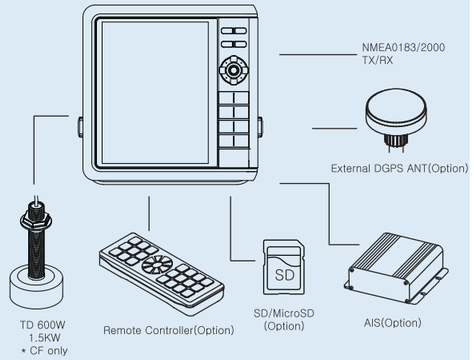
6. Function
   - Gain(auto/manual), Range(auto/manual), Shift(auto/manual), White/Black line, Shift, Water temperature, Time machine, Contrast, Support speed sensor

Displayed '*' is a function that can only be used when using SS522 transducer

Dimension(VG-10/12)



Interconnection(Chartplotter Fishfinder)



ⓘ This specification may be changed without notice.

Certified to ISO 9001/2000

04723H Printed in Korea

Haiyang OLIX CO., LTD.
103-903 Bucheon Technopark 22 Samjakro Ojeonggu
Bucheonsi 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

VEGA

Rotation *Providing the Hidden Part*

Hybrid Touch Model

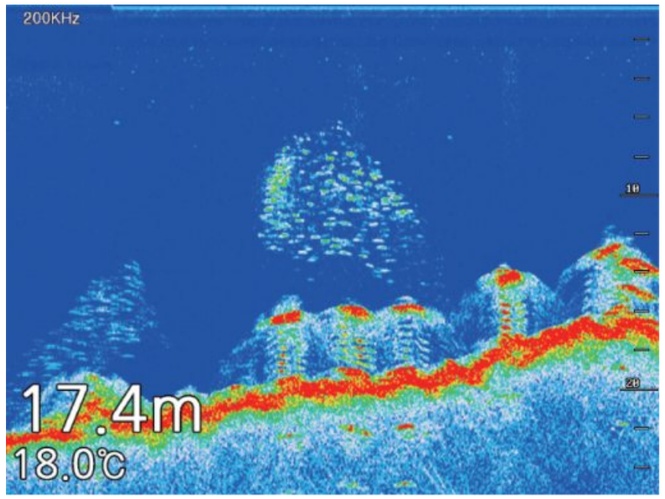
Father with rotating vertically

VG-10 series

Wider with rotating horizontally

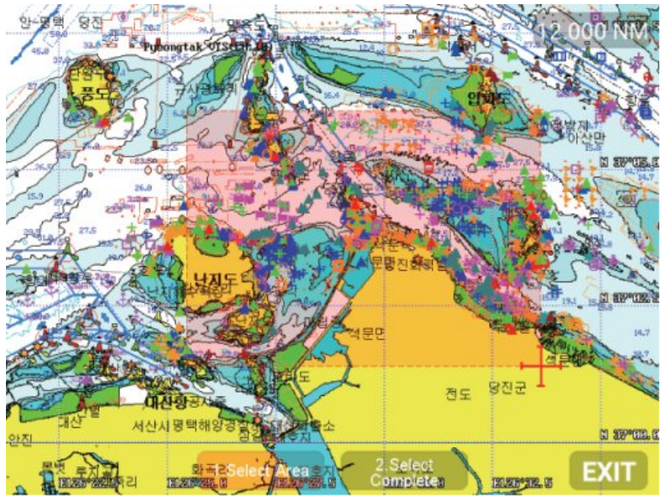
VG-12 series

HAIYANG



Digital Fishfinder V 3.0

Vega new digital fishfinder technology V 3.0 upgraded from V 2.0 provides more advanced analysis and performance.
-Upgraded to true colors of 256(V 2.0 provided 16 colors)
-AI noise filtering
-Faster time machine functionality



Selected Area Erase/Store

Users can select areas and user data such as mark(symbol/color) and track(color) in the area is able to erase or store.

Other Functions

EPTP(Erase particular part of tracks)

User can erase the particular part of the tracks. Previously, user erased the total tracks only.

Max. mark 100,000 points

Max. 100,000 points of mark is supporting, which is the biggest mark number in any other chartplotters.

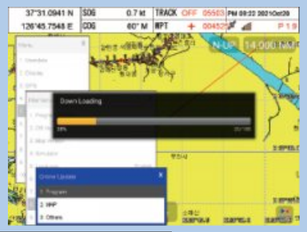
Supporting RF wireless RC / C-MAP 4D / Micro SD & normal SD

Hybrid Touch System

Users can use not only key buttons but also multi-touch screen for operating zoom-in/out, map scroll, inputting marks and erasing tracks, which provides quicker and more convenient operation.

Alpha Radar Target Chasing

When Vega is connecting alpha radar, it's sharing the radar target data and showing the radar target position and the boating route on the Vega screen.



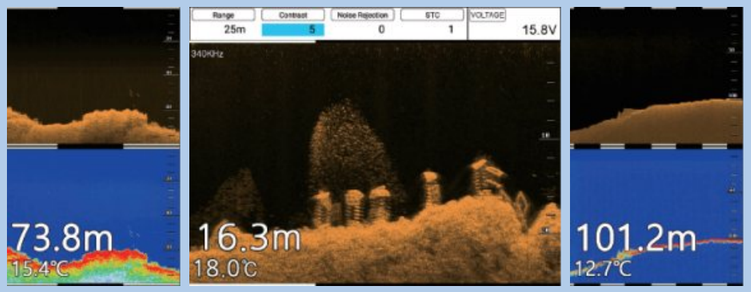
Online Update

As long as interenet service(ex: Wi-Fi or mobile hotspot) is providing, Vega can connect to Haiyang's server and online downloading the latest S/W, map, etc in real time.

Distance&BRG Calculation

User can calculate the distance and BRG between the appointed start point and end. Also, user can divides distances between the start and end.

340kHz is presenting super clearing and accurate analysis in the deep sea



Comparing the existing downimaging, 340kHz is presenting super clearing and accurate downimaging image in deeper range(Max. 150m)

*Performance could be different on set up environment and sea condition.

Pegasus(Android Smart APP)

After user downloads "Pegasus APP" in Google play and connecting Vega through bluetooth, it will provide more convenient operating and controlling Vega.
-Marks storing, loading, editing, looking on the map and combining are available
-Tracks storing, loading and looking on the map are available
-Alarming when new Vega S/W and map updated
-Remote controller supporting
-Digital user manual supporting

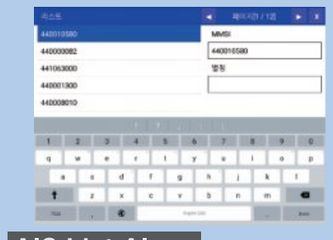
GET IT ON Google Play

CFM(Commercial Fishing Mode)

CFM provides more convenient commercial fishing such as fishing trap, floating net, long line. CFM activates marking & tracking(start & end) automatically when user clicks the key. Also, CFM also provides the time, distance and BRG from the start point while fishing until ending point.

Electronic Compass Connecting

When Vega can connect the entire electronic compass's through NMEA0183/2000, it provides quicker heading. Besides, it shows two headings, GPS BRG and compass BRG at the same time, which makes possible with looking the heading direction as well as the current direction on one screen.



AIS List Alarm

User can appoint the AIS targets with the size and color in the AIS MMSI list. Besides, user can name targets intentionally which have no names.

Haiyang Olix VG Series