GPS/DGPS/WAAS VIDEOPLOTTER
with integral Echo Sounder

- Accuracy enhanced with built-in SBAS (WAAS/EGNOS/MSAS)
- 10.4" high-definition TFT LCD for optimum viewing during daytime and nighttime
- Display of ship's tracks, waypoints and planned route on a precision electronic chart
- Dual interchangeable Card Slot Works with C-MAPNT Charts or NAVIONICS® Nav-Charts™/FURUNO MiniCharts
- Display modes including:
  - Course Plot
  - Nav Data
  - Compass
- Low-profile, space-saving display unit with GPS/SBAS combo antenna
- Stores up to 80,000 ship's tracks and marks, 3,500 waypoints, 200 planned routes
- 50/200 kHz dual-frequency echo sounder, selection of 600 W or 1 kW (GP-3500F)
- Optional MiniMemory Card for storage of ship's tracks and marks
- Remote Controller available as option

Models GP-3500/3500F
User friendly key arrangement and menu structure give straightforward operation for a wide variety of fishing vessels

The GP-3500 series is Furun’s new high performance GPS/DGPS/WAAS VideoPlotter designed for a wide variety of fishing vessels and pleasure craft. The compact, 12-channel antenna unit offers extremely accurate position fixes - 10 m for the basic GPS, 5 m for the DGPS and 3 m where SBAS (WAAS/EGNOS/MSAS) is available.

The all-new processor ensures high-speed updating of graphic presentations including the electronic chart, the vessel’s position and motion trend vector, track, waypoints and so forth. Up to 80,000 ship’s tracks, 3,500 waypoints and 200 planned routes can be stored in the internal memory.

Dual interchangeable card slot for chart and memory cards are provided on the front panel. The cartography is selectable among C-MAP NT Chart or Navionics® Nav-Chart™/Furuno MiniChart containing accurate coastlines, depth contours, place names, aids to navigation such as buoys, lighthouses, and other navigational marks.

The GP-3500F employs the dual frequency 50/200 kHz sounding module as standard. It presents detailed information on fish, fish schools and bottom. The range can be changed manually or automatically. When the range is changed, an entire echogram will be redrawn so that the contour line can be shown seamlessly. The GP-3500F incorporates unique target position output feature. It outputs the Lat/Lon position and depth of a target specified by cursor and temperature data (when a temperature sensor is connected) to the plotter display as a mark. The information is also stored in the internal memory.

Operation is simple and straightforward by using softkeys, enter knob and trackball. You can operate the navigator with great comfort thanks to its user-friendly design.

Actual Size

WIDE:310 mm, HIGH:337 mm, DEPTH:120 mm
Mode selection is quite easy; push the "DISP" button and select the mode icon by using the "Enter knob". Up to 36 display modes including combination mode are available. The combination mode can be mixed and matched from primary display modes. The primary display modes consist of course plot, compass and sounding (GP-3500F only) mode. If those weren't enough, the operator can arrange the display layout in the menu.

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Echo Sounder Display (GP-3500F)

The GP-3500F incorporates a dual-frequency, 600 W or 1 kW sounding transceiver. Acoustical pulses are emitted from the transducer fitted on the boat hull and echoes are received from fish and bottom. The 200 kHz pulses pinpoint fish schools in shallow water, while the 50 kHz pulses are advantageous to search deeper water. The A-scope display helps to evaluate echo strengths of targets in real time. The underwater scene can be displayed in a split screen with course plot or alone on the full size screen. A water temperature graph can be displayed by incorporating an optional water temperature sensor.

SBAS (Satellite-Based Augmentation Systems)

is a general term for a GPS navigation system with differential correction by means of geostationary satellites. In the US, it is called WAAS (Wide Area Augmentation System), whereas in Europe and Japan, it is called EGNOS (European Geostationary Navigation Overlay System) and MSAS (MSAT Satellite-based Augmentation System), respectively.
GPS RECEIVER CHARACTERISTICS

1. Display Type
   Twelve discrete channels, C/A code, all-in-view, Integral SBAS receiver processor
2. Display Size
   L1 (1575.42 MHz)
3. Accuracy
   GPS: 10 m (95%)
   DGPS: 5 m (95%)
   WAAS: 3 m
4. Time to first fix
   12 seconds typical (Warm start)
5. Tracking Velocity
   999 kt
6. Geodetic System
   WGS-84, NAD-27, and others
7. DGPS Capability
   Optional internal DGPS beacon receiver kit
8. Alarms
   Arrival/anchor watch, XTE, proximity alert, DBT, DPT, HDG, HDM, HDT, GGA, GNS, GLL, MTW
9. Navigation Data
   GGA, GLL, MTW
10. Speed/Temperature Sensor
    AAM, APB, BOD, BWC, DBT**, DPT**, GGA, GLL, MTW*
11. Eprom Storage
    3500 waypoints and 200 planned routes (Max. 35 waypoints/route)
12. Chart Plotting
    12 - 24 VDC, GP-3500: 25 W, GP-3500F: 30 W

ECHO SOUNDER

1. Display Modes
   Normal (single- or dual-frequency), Bottom-lock, Bottom Zoom, Marker Zoom, A-scope
2. Frequency
   50 and 200 kHz
3. Output Power
   600 W/1 kW (specify when ordering)
4. Basic Ranges
   8 basic ranges customized to max 1200 m
5. Range Shift
   0 to 1200 m

ENVIRONMENTAL CONDITIONS (IEC 60945 testing)

1. Temperature
   Display Unit: -15°C to +55°C
   Antenna Unit: -25°C to +70°C
2. Water resistance
   Display Unit: IPX2 (IEC 60529), CFR46 (USCG)
3. Power Supply
   12 - 24 VDC, GP-3500: 25 W, GP-3500F: 30 W

EQUIPMENT LIST

1. Display Unit GP-3500/3500F
2. Remote Controller
3. NMEA Cable 5/10 m MJ-A6SPF0012-050/100
4. Pixel Display Antenna GPA-019S (specify when ordering)
5. Antenna Mounting Base 13-OA300 (Pipe mount), 13-OA110 (Offset bracket), 13-RC5160 (Handrail mount)
6. Rectifier PR-62 for 115/230 VAC mains
7. Temperature Sensor T-02MSB (GP-3500F)
8. Speed/Temperature Sensor ST-02MSB/ST-02PSB (GP-3500F)
9. Internal DGPS Beacon Receiver Kit GR7000A-3500-NN-019S
10. Transducers (Specify when ordering GP-3500F)
    - 600 W
    - 520-5PSD (Plastic thru-hull), 525ST-MSD (Bronze thru-hull w/speed/temp sensor)
    - 525ST-PWD (Plastic transom speed/temp sensor)
11. Option
    - FURUNO MiniChart Card
    - Remote Controller
    - NMEA Cable 5/10 m MJ-A6SPF0012-050/100
    - Antenna Cable 30/50 m CP02-0110001710
    - Antenna Mounting Base 13-OA300 (Pipe mount), 13-OA110 (Offset bracket), 13-RC5160 (Handrail mount)
12. Installation Materials and Standard Spare Parts 1 set

Power Supply

- 12 - 24 VDC, GP-3500: 25 W, GP-3500F: 30 W

Specifications of GP-3500/3500F

**Specifications subject to change without notice**