



# Model NP-120MAX



Optional Smart Antenna  
(CSG-M8 GPS/Glonass)

Built-in GPS Antenna as standard

## Featuring:

12-inch full XGA daylight-viewing (1250 nits) LED-backlit TFT color LCD

3 Screen PAGE mode are selectable: Full MAP screen, Satellite monitor screen and Engine monitor display.

Touchscreen Tap, Long tap, Pan for pinch in/out, rotate, swipe, two figure swipe, three fingers swipe control are available for full control of MAP screen and menu selection.

Digital rotary encoder is possible to easy and quickly selection of desired menu or MAP zoom

Customize function keys of F1, F2 and F3 are user defined shortcut customized by menu Setting.

Databox window customization is possible to select user favorite 6 combination databox from 31 selectable data menu, Fix position, Bearing, SOG, COG, Steering, TTT, Date and time etc.

AIS target overlay on MAP display and CPA alarm and TCPA alarm can be set to closest AIS target.

Multi Language menu selection for English, Italian, French, Spanish, Greek, Russian, Croatian, Turkish, Japanese, Simplified Chinese, Traditional Chinese, Portuguese, Norwegian, Finnish

Built-in wireless LAN facility make possible to connect Wi-Fi spot to control display screen using smart phone free application of "MIRROR CONTROL" or captaincloud.com.

Large capacity of Waypoint and Event mark for marking important point can be displayed and saved to user micro SD card memory

Engine Monitor display is available to interface engine data center for indicating Engine RPM, Water Pressure, Temperature, oil pressure, temperature, Fuel gauge etc.  
Multi-Language menu selection

Card slot is used for C-MAP MAX and 4D Cartography micro SD card or user micro SD card

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## Specifications:

|                         |  |
|-------------------------|--|
| Display:                | 12" day-light viewing color LCD (1230 nits)  |
| Display resolution:     | 1024x768 pixel (XGA)   |
| GPS Receiver & Antenna: | 72 CH GPS + GLONASS receiver with embedded antenna   |
| Fix accuracy & update:  | 2m CEP, 10Hz update rate   |
| Touch-screen:           | Capacitive type, multi-touch available for Map zoom function   |
| Chart format:           | C-MAP cartography compatible, MAX and 4D micro SD card   |
| Micro SD card type:     | SDHC 3.0, maximum capacity 32 GB (FAT32) for user micro SD card  |
| Waypoint & Route        | 1,000 routes each having 50 Waypoints  |
| Track point:            | 30,000 points  |
| Event mark:             | 30,000 points  |
| Data Interface:         | NMEA2000x1, NMEA0183x2, Smart GPS antenna 6 pins port  |
| Wireless LAN:           | Built-in Wi-Fi link is available to connect network for smart phone mirror control or remote Monitor Display |
| Waterproof:             | IPX6   |
| Power requirement:      | 10-35 V DC, 32W  |
| Weight:                 | 3.3 kg with mounting bracket   |
| Operating Temperature:  | -10°C ~ +60°C  |
| Storage temperature:    | -20°C ~ +80°C  |

Note: Specifications are subject to change without notice or obligation.

### Dimensions (mm)

### Optional GNSS antenna

1"-14 threads for Marine antenna pole

### System Configurations & Wiring

| NMEA 2000 CONNECTOR |            |
|---------------------|------------|
| PIN                 | FUNCTION   |
| 1                   | NO CONNECT |
| 2                   | POWER +    |
| 3                   | POWER -    |
| 4                   | SIGNAL H   |
| 5                   | SIGNAL L   |

| GPS CONNECTOR |                       |
|---------------|-----------------------|
| PIN           | FUNCTION              |
| 1             | POWER OUTPUT (10-35V) |
| 2             | OUTPUT 3+             |
| 3             | INPUT 3+              |
| 4             | NOT CONNECT           |
| 5             | NOT CONNECT           |
| 6             | GND / SIGNAL RETURN   |

| POWER & I/O CONNECTOR |            |                       |
|-----------------------|------------|-----------------------|
| PIN                   | WIRE COLOR | FUNCTION              |
| 1                     | BLACK      | GND                   |
| 2                     | RED        | POWER INPUT +(10-35V) |
| 3                     | WHITE      | INPUT 1+              |
| 4                     | GREEN      | COMMON                |
| 5                     | GRAY       | OUTPUT 2+             |
| 6                     | YELLOW     | OUTPUT 1+             |
| 7                     | BROWN      | INPUT 2+              |
| 8                     | BLUE       | EXTERNAL ALARM OUT +  |

NOTE: Add FUSE in series to power cable supplied 1A

FUSE 1A

POWER SUPPLY

### Standard Equipment

(1 pc. Each, except as specified):

- NP-120MAX Main Unit
- Operation Manual
- Power & IO cable
- Mounting Bracket
- Mounting knob 2 pcs.
- Panel mount template

### Optional equipment

- M8 GNSS/SBAS GPS smart antenna with 15m cable