



10.4-INCH DAYLIGHT VIEWING TFT LCD GPS TRACK PLOTTER

MODEL NP-30NT

MAJOR FEATURES:

Advanced hardware architecture supports C-MAP NT⁺, taking advantage of all features the new technology provides, including object-oriented low-cost wide-coverage cartography with paper-like presentation, C-forecast (where data service is available), and PC-planner, while ensuring full compatibility with existing C-MAP NT cartridges.

Object-oriented cartography allows all available information to be checked on objects pointed by the user on an NT⁺ chart.

A full VGA 10-inch daylight viewing TFT LCD screen with fully adjustable backlighting and contrast levels, with separate keypad dimmer.

Built-in 12-channel, WAAS-capable GPS receiver with separate antenna supplied as standard. An NMEA-0183 I/O interface also allows an external GPS data source to be connected.

Single-touch on-screen entry of waypoints, events, and marks with devoted keys.

Instant startup of navigation to a user-specified point with a devoted destination key.

A devoted Man-Overboard (MOB) key to enter an MOB waypoint, with automatic startup of navigation to that point.

A devoted key to select various display pages (full map, map with nav. data, map with depth graph, full navigation display, full satellite information display, and full 3-D runway (moving highway) display.

Two video cameras can be connected, enabling you to monitor in real time on the screen what is happening at two locations of interest.

Specification

Display: 10.4" backlit VGA TFT LCD, daylight-viewing **GPS Receiver:** 12-channel parallel, WAAS-capable, DGPS-Ready, 1575.42 MHz, C/A Code
Coordinate System: LAT/LON, UTM **Datum:** WGS84, Indian 1975, and major datums **Display Modes (Pages):** Map & Nav. Data, Full Map, Map & Depth, Navigation, 3D-Runway (moving highway), Satellite Information **Map Orientation:** North-Up, Head-Up, Course-Up **Cartographic Cards Supported:** C-MAP NT & NT+ **Card Slots:** 2 **Tracklines:** 5 selectable **Track History:** 5,000 GPS fix points/trackline (25,000 in total) **Track Colors:** 8 selectable **Track Storage Intervals:** 1/5/10/30 sec, 1/5/10 min or 0.01/0.05/0.1/2/5/10 n.m. **Routes:** 20 reversible, each with name tag (16 alphanumeric characters) **Built-in User Point Storage:** 1,000 points (waypoints, marks, events combined) **User Point Option:** 16 icons and 8 colors selectable for each point, each with user-defined name tag (8 alphanumeric characters) **Man-Overboard (MOB) Waypoint:** 1 **Alarms:** Arrival, Cross-Track Error, Depth, Anchor, Grounding **Optional User Data Cards:** 1 MB, 2 MB & 4 MB **Interface:** NMEA-0183 I/O (Digital), video camera input (NTSC/PAL) **Power Requirements:** 11 to 40 vdc, Approx. 21W, floating ground **Display Unit Weight:** Approx. 4.8 kg with bracket attached **Displayed Unit Dimensions:** 410(W) X 397(H) X 110(D) mm with bracket attached **Ambient Temperature:** -10 to 55 C (cabinet) without condensation, -30 to 70 C (antenna)

General Specifications

Display Screen:
10.4 inch color TFT 640x480 pixels, Daylight viewing,
Splashproof

Power requirements:
11 to 40 VDC, approx. 3A at 12VDC

Display Unit Weight:
410 mm(W) X 397 mm (H) X 110mm (D)

Display Unit Material:
High Impact ABS, internally coated with
electrically conductive paint for EMC compliance

Ambient Temperature :
Display Unit: -10 to 55 degree (C)
GPS Antenna: -30 to 70 degree (C) / operating,
-40 to 85 degree (C) / storage
Relative humidity 95% non-condensing

Performance Standard:
Compliant with IMO Resolution MSC.112(73)

GPS Sensor Specification

Receive Frequency & Code:
1575.42 MHz, C/A code (L1)
2D fix at 3 satellites, 3D at 4 satellites

Number of Channels:
12 channels parallel, WAAS-Capable, DGPS-Ready

Accuracy:
1-15 meters RMS or less under non S/A condition
<100 meters under S/A condition
1-5 meters RMS with optional DGPS Beacon receiver

Data Update Rate:
1 second

Track Plotter Specification

Display Modes (Pages):
Full Map, Map & Nav. Data, Map & Depth, Navigation, 3D-
runway(moving highway) Satellite Information

Map Display Mode:
Full, Simple, Fishing, Low and Custom.

Cartography:
Projection: LAT/LON (North-up Mercator), UTM
Coverage: Built-in Worldwide Chart Coverage
2 Slots C-MAP NT & NT+ chart
Storage Device: 2 User C-Card 1MB, 2MB and 4MB
Natural Features: Port and Services Info, Depth
Distance, Nav-aid, Buoy, Beacon
Lights, Wreck, bottom type Info
Tides Station, Sunrise-Sunset

Map Scale Range:
Up to 25 ranges selectable depending on inserted map card
with a pair of dedicated keys

Map Datum
WGS-84, Indian 1975, Tokyo and major datums.

Built-in User Points::
1,000 (waypoints / marks & events combined)
or approx. 70,000 points when use with optional C-Card

User Point Options:
a total of 8 colors and 16 icons are selectable for each point,
with a unique name tag consisting of up to 8 alphanumeric
characters. The data entry can be made in conventional LAT/
LON or UTM coordinate system.

Man-Over-Board:
1 devoted Man-Over-Board (MOB) key

Routes:
20 reversible, 100 waypoints or marks per route.
each with name tag (16 alphanumeric characters)

Tracks History:
Number of tracks: 5 selectable tracks line
each with 5000 GPS fix points.
Track Colors: 8 selectable colors
Storage Capacity: 25,000 GPS fixed points in total.
Track Interval: 1/5/10/30 sec
1/5/10 min
0.01/0.05/0.1/2/5/10 n.m.

Audible and Visual Alarms:
Alarms: Arrival, Cross-Track Error, Depth, Anchor,
Grounding
Audible: Built-in Speaker (On/Off)

Navigation Calculations:
Bearing-to-Waypoint / Distance-to-waypoint / Course-Over-
Ground / Speed-over-Ground / Time-to-Go and more.

Date & Time Indications:
12 / 24 hour format, UTC or local time.

External I/O Specifications

I/O Ports:
1 NMEA Input/Output, DGPS Data Input, Depth Sounder Input
Video Input: 2 ports for video motion picture
cameras or digital still cameras
Video Format: NTSC or PAL, selectable.

Protocols / Format:
GPS Derived data: NMEA-0183 (digital)
DGPS Corrections: RTCM-SC104

Uploading/Downloading Specifications:
Transferable Data: Tracks/Waypoints/Routes/Events/
Marks via C-Card reader
Host Systems: IBM compatible PC* with Microsoft
Windows 95/98/ME/2000 OS**
* Optional C-Card Reader required
** User Provided

NOTE: Above specification are subject to change without notice or obligation.

