

ELECTRONIC PLOTTING TABLE

NAKSH YOJANA

INDIGENOUS PLOTTING TABLE

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Naksh Yojana Electronic Plotting Table has been fully conceptualised, designed and made by Elcome Integrated Systems Pvt. Ltd.

Naksh Yojana is an aid for tactical navigation, while being a Dead Reckoning Tracer, using the power of modern technology. This auto-plotter displays and records navigational data of own ship and tracks. Naksh Yojana plotting table accurately stores and displays own ship and manual contacts' geographical position information. It is used to perform navigational calculations on Mercator charts and GOP/LOP plotting-sheets.

Naksh Yojana is a horizontal plotting table that indicates own ship position by means of a cross-hair on light projector using data from GPS, Gyro and Log. Feasibility exists for placing Mercator charts or GOP/LOP plotting-sheets on top of the transparent top. At any given instant it is possible to indicate the position of either the own ship or one of the selected contacts. Based on the selection of own ship or contact, the cross-hair moves incrementally along the ship's vector and traverses a distance proportional to the speed of the ship.

Naksh Yojana is a Digital Dead Reckoning Tracer which aids general and tactical navigation onboard ships and submarines, as well as ASW operations.

Very ergonomic design and user friendly MMI reduces operator fatigue and is a handy training aid for practicing the navigators and ops room teams.

HIGHLIGHTS

- Ergonomic user interface meeting operational requirement
- Superset of all features of existing systems.
- Simplified architecture, reduced maintenance.
- Upto 50 manual tracks can be created and dead reckoned
- Mission, passage, route and tactical planning.
- Man overboard operation and other alarms.
- Customisable to meet user requirements.
- Standard interfaces minimising integration effort.



DESIGNED AND MADE IN INDIA

Naksh Yojana is a 100% indigenous solution with guaranteed life cycle support. It is a micro-processor-based system that utilizes standard electronic module architecture. It improves reliability, simplifies maintenance and obsolescence management.

Multiple options and variants are possible to suit the diverse needs of various customers. Size of the plotting area and horizontal surface can also be customised according to requirements. Software and MMI can be modified progressively over the life-cycle because 100% design and development has been undertaken at Elcome.

Naksh Yojana Plotting table will meet the requirement of the Navies, using technology that is suitable for marine applications.

FEATURES

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| Standard Composition | <ul style="list-style-type: none"> • Plotter with integral keyboard and trackball • 17" monitor • Controller • Optional external interface unit |
| Navigation Interfaces | Log, Gyro and GPS data in standard NMEA0183 format. Other formats are supported using Elcome supplied optional external interface unit |
| Scale of Mercator Chart | 1:1000 to 1: 7,000,000 |
| Scale of GOP/ LOP plotting-sheets | 1 inch equal to 0.01 Nm to 99Nm |
| Number of Screen Pages | 06 |
| Number of tracks | Upto 50 |
| History of own-ship and tracks | 24 hours |
| Predicted position of own-ship and tracks | 24 hours |
| Four methods of track creation | <ul style="list-style-type: none"> • Entering Latitude/Longitude/ Course/Speed • Entering Range/Bearing/ Course/Speed • Positioning the cross-wire using track-ball and entering Course/Speed • Positioning the cross-wire using track-ball using two or more manual reports |
| Number of way-points | 15 |
| Man overboard | Single button invocation |
| Stand-off radius | Available for own-ship and tracks |
| CPA, TCPA, Intercept Course and Intercept Speed | Available on single screen |
| CPA, TCPA & Intercept point/ course/ time/ speed | Available on single screen |
| Environment and EMI/EMC Tests | Tested as per applicable specifications of JSS55555 and MIL STD 461-E |

TECHNICAL DATA AND SPECIFICATIONS

| PLOTTER | |
|--------------------------|--|
| Size | 1170 × 845 × 225 ±10 mm |
| Plotting Area | 950 × 640 ±10 mm |
| Projector | Multicolour with cross hair |
| MMI | 33keys and 43 mm trackball |
| Weight | Less than 105 Kg |
| Slew Speed of cross wire | 180 mm/sec |
| Accuracy | ±1mm |
| MONITOR | |
| Panel Diagonal Size | 17 inches |
| Dimensions | 440 × 380 × 71 ±10mm |
| Active Display Area | 337.92 (H) × 270.34 (V) |
| Power | 230V, 50Hz, 1 Phase |
| Power consumption | 35 W |
| Aspect ratio | 4:3 |
| Weight | Less than 8.5 Kg |
| CONTROLLER | |
| Dimensions | 510 × 320 × 200 ±10 mm |
| External Interfaces | RS 422/NMEA 0183 for Log, Gyro and GPS, Customization possible |
| Power | 230V, 50Hz, 1 Phase |
| Power consumption | 400 W |
| Weight | Less than 18 Kg |

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