

LF/MF/HF AUTOMATIC DIRECTION FINDER

MODEL DF-2701

Graphic and digital indication of bearing on bright, wide viewing-angle TFT color LCD display

Synthesized up-conversion general coverage SSB/AM receiver tuning 200 kHz to 30 MHz continuously with automatic selection of IF bandwidths

2 blocks of user-programmable memory, each storing up to 48 user-selected frequencies and modes (98 channels in total)

Automatic/manual forward/reverse scanning of user-specified memory channels

Automatic readout of quadrant error-corrected bearings after manual entry of error data at initial installation

Outputs bearing data in NMEA-0183 format for use with other onboard equipment.

Accepts NMEA-0183 heading data from GPS sensor to show true/magnetic bearing.

3-step attenuator for preventing receiver blocking from strong adjacent channel signals

Adjustable ADF threshold level for stopping bearing measurements on noise

Selectable display background color and selectable information display colors

Specifications

●**Display:** 5.5-inch color TFT LCD ●**Screen Background Colors:** black, cyan, blue (selectable) ●**Information Display Colors:** RGB colors or monochrome ●**Receiver Design:** synthesized up-conversion superheterodyne with 1st IF at 90.055 MHz and 2nd IF at 455 kHz ●**Frequency Range:** 200 kHz to 30MHz continuous in 10 Hz steps ●**Frequency Memory:** 96 channels divided into 2 groups (ship channels 001 to 048, and coast channels 101 to 148), each storing up to 48 user-specified frequencies along with modes of reception. ●**Reception Modes:** AM, SSB (selectable USB/LSB), FAX (F3C/J3C) and CW ●**Scanning:** between user-set frequency limits in selectable steps (100 Hz to 99.9 kHz) or between user-set channels ●**Receiver Sensitivity:** 0.8 μ V/m (2.4 kHz filter), 3.2 μ V/m (6 kHz filter) at antenna for 12dB SINAD ●**Selectivity:** approx. 2.4 kHz during ADF operation in all modes, approx. 6 kHz for AM reception, approx. 2.4 kHz for SSB/CW reception ●**Image Rejection:** more than 70 dB ●**IF Rejection:** more than 70 dB ●**ADF Sensitivity:** at least 8 μ V/m (LF), 7 μ V/m (MF), or 5 μ V/m (HF) at antenna location is required to obtain usable bearing indication **CAUTION:** No meaningful bearing measurements are available for ionospherically propagated signals. ●**Bearing Readout Resolution:** 1 degree (digital), 5 degrees (graphic symbol) ●**Bearing Correction:** automatic after manual entry of quadrant error corrections ●**External Interface:** NMEA-0183 (bearing output/heading input) ●**Antenna System:** crossed loop antenna (650mm dia.) with 1.2m whip sense element and optional 4X1.2m ground plane radials. ●**Antenna Cable:** double-shielded multi-conductor (2 coax plus 4-conductor shielded), 25m standard ●**Audio Output:** approx. 3W into 8 Ω external speaker (standard) ●**Power Supply:** 24 volts DC (20 to 28 VDC). approx. 50W ●**Cabinet Dimensions:** 270(W)X160(H)X250(D) mm ●**Weight:** approx. 6.2 kg with mounting bracket (cabinet), approx. 5 kg (antenna), approx. 11.5 kg (antenna cable, 25m)

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



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Printed in Japan 0034K