



## VHF AUTOMATIC DIRECTION FINDER

# MODEL DF-5500

### MAJOR FEATURES

**Graphic and digital indication of bearing on 5.5-inch bright, wide viewing-angle TFT color LCD display**

**Covers international marine VHF-FM channels, Canadian/U.S. VHF channels, weather channels, Scandinavian fishery channels, or tunes the entire VHF band from 118 to 174 MHz in 0.5 kHz steps in both FM and AM modes, including 121.5 MHz AM aeronautical distress frequency.**

**48 user-programmable channels for storing other VHF FM or AM communication frequencies, such as security, police, fire, and amateur radio frequencies**

**Scans user-selected channels or sweeps user-specified frequency range.**

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

**Accepts NMEA-0183 format heading data from GPS receiver for reading true bearing.**

**Fully adjustable squelch control for suppressing background noise in the absence of a signal.**

**Fully adjustable RF gain control for AM signal reception**

**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 colors 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 dual-conversion superheterodyne with 1st IF at 90.055 MHz and 2nd IF at 455 kHz    **Frequency Range:** 118 to 174 MHz tunable in 0.5 kHz steps    **Channel Coverage:** international marine VHF channels, Canadian VHF channels, U.S. VHF channels, VHF weather channels, and Scandinavian fishery channels    **User-Programmable Channels:** 48 channels capable of storing user-selected frequencies to 0.5 kHz and modes    **Reception Modes:** AM and FM    **Scanning:** between user-set channels or user-set frequency limits, 1 sec./channel    **Receiver Sensitivity:** Less than 5  $\mu$ V/m (FM) or less than 8  $\mu$ V/m at antenna location (AM) for 12 dB SINAD    **Selectivity:** approx. 6 kHz at 6dB down,  $\pm$  10 kHz at 60dB down    **Image Rejection:** more than 80 dB    **IF Rejection:** more than 90 dB    **ADF sensitivity:** 1  $\mu$ V/m or less at antenna to obtain usable bearing indication    **Bearing Readout Resolution:** 1 degree (digital), 5 degrees (graphic symbol)    **Bearing Correction:** automatic after entry of quadrant error corrections    **External Interface:** NMEA-0183 (bearing output/heading input)    **Antenna System:** H-type Adcock (960mm high x 400mm wide.) with 900mm whip sense element    **Antenna Cable:** double-shielded multi-conductor (2 coax plus 4-conductor shielded), 25m    **Audio Output:** approx. 3W into 8 external speaker (standard)    **Power Supply:** 24 volts DC (20 to 28 VDC), approx. 50W  
**Cabinet Dimensions:** 270(W) x 160(H) x 250(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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