

HandiDF



Features

- Remote display of bearing angle and signal strength.
- Broadband - covers 88 to 1000 MHz.
- +/- 2 deg bearing accuracy (1 sigma, no reflections).
- Digital processing for high sensitivity and multipath reduction.
- Notch filter eliminates tone from built-in speaker output.
- Selectable moving average and RF attenuator
- Dependent on the software you are using. Current models supports Inter Agency Map Direction Finding (IAMDF) (Government only).

Specifications:

- Type: simulated Doppler, 4 antenna elements.
- Commutation frequency: 1228 Hz nominally.
- RF operating frequency: 88 to 1000 MHz.
- Accuracy: +/- 2 degrees, 1 sigma.
- DF sensitivity: -126 dBm continuous carrier, and -120 dBm pulsed signal.
- Sampling rate: 100 samples per second, estimate averaged to twice per second.
- Averaging: Moving average of last 2 or 4 bearings selectable from remote display.
- Audio output: Notch filter to eliminate commutation tone, 0.5 W maximum output.
- Audio input: 0.01 to 0.6 VRMS.
- Display hold: 10 seconds.
- RF attenuator: 20 dB selectable from remote display.
- Power: 11 to 14 VDC, 0.7 amps.
- Operating temperature: 0 to 50 deg C (Display & Processor), -50 to 100 deg C (RF Summer & Antennas).

Available Options

- Optional Receivers.
- Dashboard Display on some versions.
- Antenna whips cut to desired center frequency for UHF and VHF.
- Crossbow Mag Mount Antenna made to specified center frequency.
- GPS unit.
- Flux gate Compass Unit.
- Other options are available upon request.

Receiver options

This unit currently supports different receivers from AOR, ICOM, and WinRadio.

Specifications Dependent on Receiver Chosen

Ultra Wideband coverage

from 0.01 to 3299.999MHz.

USB cable connection

The USB port provides a faster data link which allows you to expand the receiver's capabilities with quicker response times as well as new audio processing functions, as you are able to hear the received signals through your computer's audio system*.

**Dependent on PC Receiver used.*

Bandscope and time-line scope

Not only a 5MHz (Max.) wide range bandscope*, the new timeline scope allows you to observe the band condition within a specified time period (3 to 100 minutes). In addition, the sweep data can be stored on your PC for future use.

Recording function

New recording features are introduced with the software package. You can record audio in WAV format directly through the USB port. Skip the hours of channel inactivity with the software's remote control function which pauses and resumes recording according to the channel activity. You can also adjust the sampling rate.

DSP capability

If you are into weak signal work, the optional* DSP unit, is a must have. This add-on gives you noise reduction and auto notch filter functions to improve the S/N ratio for improving the received signal quality.

Max. 60 Ch/sec. high speed scan

Quickly search a frequency range with 60 Ch/sec scan speed*.

Additional receiver features*

- VSC (Voice squelch control) opens the squelch only when a modulated signal is detected and ignores unmodulated, beat noise signals
- CTCSS/DTCS tones and duplex mode operation for monitoring a repeater
- S-meter squelch
- Pocket beep function
- IF shift function (SSB, CW mode only)
- Noise blanker eliminates pulse type noise such as engine ignition noise. (SSB, CW, AM mode only)
- 20dB (approx.) RF attenuator (below 1300MHz)
- Auto memory write scan searches for a signal, and when a signal is detected, the received frequency is automatically stored into the PC memory
- AFC function (Auto Frequency Control) automatically follows the receiving frequency when the receiving frequency drifts in FM mode. (BW: 6kHz or 15kHz)
- AGC function; Fast/slow setting is possible
- Weather alert function (U.S.A. version only)
- 24-digit DTMF tone decoder
- Tuned bandpass filters for VHF/UHF bands
- Squelch delay
- Up to 2600 memory channels per file

Contact Custom Renovation, LLC for additional information. info@customrenovation.net