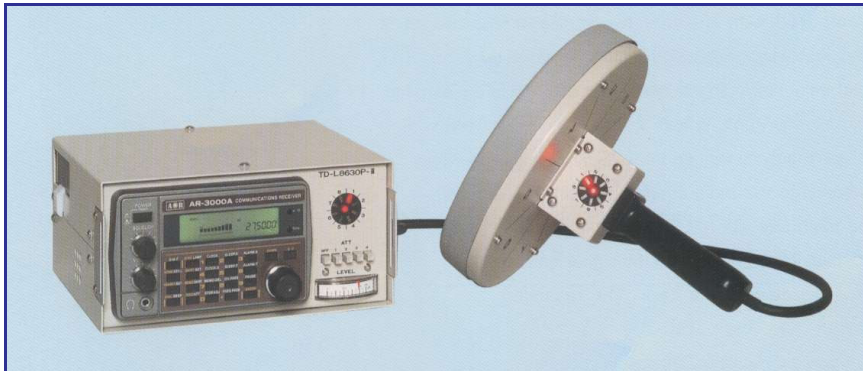


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## TD-L8630 Hand Held Radio Direction Finder



### Features

The TD-L8630 is a portable radio direction finder, designed to detect a radio source using the "homing" method. That is, one can trace the source of a radio emission by proceeding towards the direction of arrival of the signal, as given by the DF bearing of the source. The major features of the system are:

- It is a small, lightweight design, suitable for rapid deployment. The deployed system comprises a hand held antenna and the main unit. The main unit is contained in a single carrying bag, weighing only 3.9Kg in total
- It covers a wide frequency range from 1.6MHz to 2GHz, depending on selected antenna
- The direction to a radio source is displayed with using eight LEDs, arranged in a circle. The direction and the signal strength are visible at night
- The receiver circuit has a high stability, with a phase locked loop, synthesized oscillator and it has versatile functions, such as spot search, scan and priority reception
- The system can be operated for three hours or more with a charged battery
- This model can be used as a mobile DF station when a flat antenna for mobile use is installed on a car roof and connected to the main unit in place of the hand held antenna

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Description

The function of the system is to intercept a vertically polarized signal of known frequency and mode of modulation.

These parameters are selected, either manually or automatically (scan/search operation). The voice modulation on a received signal can be monitored simultaneously, and its bearing with respect to the hand held antenna is shown on both the displays on the antenna and on the main unit. The level of the signal is indicated on the level meter, from which can be derived some information about the distance from the radio source (transmitter) to the DF array (receiver).

The model consists of a main unit in a carrying bag, hand held antenna, a charger for the batteries, battery cables, spare parts as illustrated in Figure 1 and listed in Table 1. The case accommodates all components of the system as described above, (except the flat antenna for mobile use, which is a separate option).

For operation, one takes out the hand held unit from the case and connects it to the main unit. The battery is inserted into the main unit.



Figure 1 - TD-L8630 Hand Held Radio Direction Finder

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Composition of H/V/UHF Hand Carried Direction Finder System.

Name	Qty	Description
Main Unit	1	Comprises receiver and DF processor
Hand-held Antenna EF-187P	1	With grip, display and cable
Earphone	1	For monitoring AF signal
Battery	2	For spare
Charger	1	For battery
Cable for Charger	1	For commercial power supply 2.5m long
Cable for Charger	1	For power supply from car battery, 2m long
Power Cable	1	Power Supply from Car Battery
Carrying Bag	1	For main unit
Case	1	For main unit, charger, antenna battery etc.
Fuse	15	6 for 3A, 9 for 1 A for AC supply or 6 for 3A 3 for 1A and 6 for 0.5A for AC 200-220V
Instruction Manual	2	
Optional Antennas		EFR-100: 1.6MHz to 30MHz EF-092P: 1000MHz to 2000MHz

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System Specification

DF Type:	Amplitude Comparison	
Frequency Range:	Antenna EFR -100	1.6MHz - 30MHz
	Antenna EF -187P	25MHz - 1000MHz
	Antenna EF -092P	1000MHz - 2000MHz
Minimum Received RF Field Intensity:	100µV/m	
Polarization:	Vertical	
Bearing Display:	Circular Display with 8 LEDs	
Accuracy:	+/-15 degrees	
Receiver:	Frequency includes 100kHz-2000MHz	
	Reception manual (Digital up/down/dial) spot, search and scan.	
	Triple or quadruple super heterodyne with PLL synthesized oscillator	
	Memory 4 banks x 1 00 channels	
Power:	Power consumption: DC 12V, 0.55A or less (LCD back light off)	
	Battery: 12Vdc, 2.3AH	
	Car Battery: Through cigarette lighter	
	Charger: Power supply from AC 100-230Vdc or DC 12V.	
Weight:	Main Unit 3.1 kg with battery in the bag.	
	Antenna 0.8kg	
	Battery 0.6kg	
	Charger 2.0kg	