

Specifications

Power source	
DC	DC 11 ~ 29V, 20W or less
AC	AC 100 / 110 / 115 / 200 / 220 / 230V, TG1637CS (option)
Direction finding	
Display	Analog in 5° step and digital in 1° step Choose the digital display from TRUE, RLTV (relative) or CMPS (compass) * Scanning hold channels is available
Accuracy	3° or better
Sensitivity	1) With Adcock antenna : 2 μ V / m for 100 ~ 219.9975 MHz : 5 μ V / m for 220 ~ 499.9975 MHz 2) With Flat antenna : 20 μ V / m for 100 ~ 219.9975 MHz : 10 μ V / m for 220 ~ 499.9975 MHz
Signals	
Range	100 MHz ~ 499.9975 MHz
Type of wave	AM (A3E) or FM (F3E)
Reception	
Tuning type	Double super heterodyne with computer controlled synthesizer
IF and selectivity	IF 1st : 65.7 kHz 2nd : 455 kHz Selectivity : 12 kHz at 6 dB down Image ratio : 60 dB
Display	
Direction	Digital LED display, 3 numerical LEDs with 1 degree step in 359 degrees scale 72 LEDs arranged in a circular readout with each sector representing 5 degrees
Sound	
Speaker	Separate type, 1W (8 Ω) Squelch sensitivity 3 mV/m or less for FM
Environment	
Temperature	0 °C ~ +50 °C for main unit -20 °C ~ +70 °C for antenna
Relative humidity	95 % at +35 °C for both main unit and antenna

Option

Gyro repeater	90X or 360X for synchronous type, 180X for step type
Magnetic compass	Mobile-borne, built in flat antenna

Special version

* Wide frequency range model : With down converter, this model can cover additional two frequency ranges, one from **810 to 960 MHz** and the other from **1100 to 1250 MHz**

* Specifications and design subject to change without notice for future improvement.

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TAIYO

VHF / UHF AUTOMATIC DIGITAL DIRECTION FINDER

TD-L5000



The TD-L5000 is a high quality, versatile direction finder covering the frequency range of 100-500 MHz. Several antenna configurations are available, allowing the user to choose between fixed site, mobile, and marine applications. With optional equipment, the TD-L5000 is ideal for use in remote controlled DF systems for marine safety, airport monitoring, and radio frequency tracking systems.

TAIYO MUSEN CO., LTD.

General Description

TAIYO, the leading company in the design and manufacture of the direction finder, confidently introduces the multipurpose use direction finder, **TD-L5000**. It covers a wide frequency range from 100 MHz to 500 MHz on VHF and UHF band. Computer controlled synthesizer in its tuning circuit provides high sensitive accuracy and stability. The modulation circuit provides high tone quality even during direction finding. In addition, up to 100 frequency channels for spot reception can be stored in the main unit and these channels are available for scanning reception. Automatic error correction facility smoothly provides accurate direction. Moreover, for emergency channels, 121.5 MHz, 16CH, 243 MHz and 406 MHz are installed on the front panel and used independently. Interfaced with a gyrocompass or magnetic compass on option, true direction or magnetic direction of incident signal can be displayed.



DF main unit with optional AF monitor and modem

Multipurpose usages of TD-L5000

For maritime use, this model can be used to grasp the direction of the other ships and etc., like our other direction finders. Especially, emergency channels which are put priority are useful for rescue purpose.

For land use, this model can be installed as stand alone DF station and also in the sub-base of remote controlled DF station. In case of remote controlled use, this model is possible to activate as unmanned station linked by radio wave or exclusive telephone line.

For mobile use, this direction finder can be installed on the motor vehicle. This model can be used to approach the location of illegal transmitters. By contacting with and receiving the command from fixed DF station, this mobile station is definitely helpful to close to that location immediately, limiting the area of the emitter sources. (Transportable use Adcock antenna is available.)



Example of installation for mobile use

Antenna

TD-L5000 has variety kinds of antennas and users can choose from them considering their purpose of usage. Following are specifications of antennas which can be used for this model.

A) 8-element Adcock antenna

1. EAS-0531 double stacked type for land use
2. EAS-0532 double stacked type for maritime use
3. EA-503W or EA-302 separate type for land and maritime use
4. EA-506M or EA-304M for transportable use with tripod

B) Flat antenna

EF-353MA for mobile use



EA-503W



EA-302



EF-353MA



EAS-0531

Antenna name	Frequency	Dimension (mm)	Weight
EAS-0531 EAS-0532	100 - 500 MHz	2430 (H); (double stacked Adcock antenna) 710 (H); 540 φ (large Adcock antenna) 410 (H); 340 φ (small Adcock antenna)	20 kg
EA-503W	100 - 250 MHz	1155 (H); 540 φ	10 kg
EA-302	180 - 500 MHz	1155 (H); 340 φ	10 kg
EA-506M	100 - 250 MHz	2940 (H); 500 φ (with a tripod)	8 kg
EA-304M	180 - 500 MHz	2940 (H); 300 φ (with a tripod)	8 kg
EF-353MA	100 - 500 MHz	117 (H); 500 φ	5 kg

Composition

Main unit

Size : 200 mm(H) X 360 mm(W) X 375 mm(D)

Weight : 10 kg

Cables

RF cable : 8D-2V

Control cable : 6- or 10- cored vinyl cab tire cable with shield

RF conversion cable : RG-58A/U, 1.5m long

Power cable : 2-cored vinyl cab tire cable, 3m long

Gyro cable : 8-cored vinyl cab tire cable, 1.5m long

Speaker

Size : 123 mm(H) X 136 mm(W) X 64 mm(D)