

SIMPLEXOR

Single frequency Repeater Station



This device is designed and manufactured to convert a mobile radio to a single frequency repeater station. In addition to the switching power supply section, this device contains a Simplexor board which is connected to the accessory connector of mobile radio via special cable and connector. This station records the detected voice of received signal and modulates and retransmits it immediately after the received signal interrupted. Therefore this station can easily act as a single frequency radio repeater.

Features:

- ✓ switching power supply with digital voltmeter and Ammeter
- ✓ internal battery charger for charging the backup battery
- ✓ Automatic switching of dc supply line to the reserve battery in case of AC power failure
- ✓ high efficiency electric Fan for cooling the device and radio
- ✓ high quality radio communication due to the low noise and ripple
- ✓ Short circuit protection for "RADIO" output terminal
- ✓ reverse polarity protection for "BATT" terminal
- ✓ Ability to connect to various types of mobile radios
- ✓ Ability to record the received signal up to 65 seconds
- ✓ 4 LED indicators for showing the power, Rx, Tx and status

✓ Technical specifications

AC Input voltage	220V/50Hz
"RADIO" output	13.6Vdc / 20A
"BATT" output	13.6Vdc / 400mA
Output ripple and noise at 20A load	150mV p-p Max.
Load / Line regulation	% 1 / % 2 Max.
Simplexor audio frequency response	300Hz ~ 3.4Khz @ 1KHz
Audio distortion	Less than % 1