

# SCANNER MASTER PORTABLE EMERGENCY COMMUNICATIONS SYSTEM (PEMS)

## CUSTOM VERSION

### DESCRIPTION

The Scanner Master Portable Emergency Communications System provides portable packaging for up to three Uniden DIN-E packaged scanners as well as a variety of power sources for base station, vehicular, or portable use.

This particular PEMS unit has been customized for two scanners with panel mounted speakers and the capability to operate from AC mains voltage (100-240 VAC 50-60 Hz) or 10-30 volts DC. Separate power supplies are incorporated in the unit to supply a constant 12 VDC to the radios and multicoupler from either a DC or AC power source. Jacks have been provided for connection of external speakers, if desired. The two unused outputs of the amplified multicoupler have been brought to the front panel for use with additional outboard radios if desired.

### SUPPLIED COMPONENTS

- PEMS case
- 120 VAC US power cable
- 220 VAC European power cable
- Cigarette lighter DC power cable
- Spare .75 Amp AC fuse (5mm x 20 mm)
- Spare 3 Amp DC fuse
- DIN removal keys (2)

### PANEL CONNECTORS AND CONTROLS



- |  |   |
|--|---|
| 1 Fused AC power connector 100-240 VAC | 8 DC power connector                        |
| 2 AC power switch                      | 9 Left speaker (top radio)                  |
| 3 External antenna input               | 10 Scanner 1                                |
| 4 Preamplifier output                  | 11 Scanner 2                                |
| 5 Preamplifier output                  | 12 Right speaker (bottom radio)             |
| 6 DC power switch                      | 13 Top radio external speaker connection    |
| 7 DC fuse                              | 14 Bottom radio external speaker connection |

## RADIO INSTALLATION

The PEMS has been shipped ready to install two Uniden scanners of the BCT15 or BCD996T type. It is first necessary to remove the factory radio case:

1. Remove the bracket if attached
2. Remove the four Phillips screws from the four small tabs on the rear of the case and remove the case by sliding toward the rear of the radio.

Next, install the radios:

3. Position the radio over the DIN-E sleeve in the PEMS panel and connect the antenna, power, and speaker connectors. The upper radio connects to the left speaker as shipped.
4. Remove the cable retainer(s).
5. Gently slide the radio into the slot until it is securely seated.
6. Repeat Steps 1 – 5 for the second radio.

## OPERATION

Connect the desired power cable to the PEMS and to the source of power. The AC and DC inputs are separately switched and fused. When powered by AC, a click may be heard within a second of power being applied. This is an internal relay that connects the radios either to the internal AC power supply or the internal DC power supply that provide 12 volts DC to the radios and antenna splitter/preamplifier (multicoupler).

Note: When operating from DC power, if the second radio is turned on while the first is operating, the first will shut down and both will power up together. This is due to a characteristic of the Uniden radios that automatically turns the radio off if the input voltage falls below about 10 volts DC. Switching the second radio on causes an instantaneous transient voltage drop in the output of the DC to DC power supply (due to change in current demand) resulting in this reset. User settings are not lost when this happens.

## AC FUSE REPLACEMENT

The AC power connector contains an integrated fuse holder and spare fuse compartment. To replace the fuse, unplug the AC power cord and gently pry the tab (see photo) with a small screwdriver to open the fuse carrier. The active fuse can be removed by gently lifting on one end with a small screwdriver. The spare fuse may be removed from its storage location by gently pushing it out with a screwdriver.

