

Work in Progress More information

Deployment Process:

Connect power source(s). AC, battery or both.

Connect required antenna(s)

Connect ground wire

Plug in microphone

Power Up

GET ON THE AIR

Optional

Connect computer to CAT and TNC cables

Start software on computer

Power up Signalink

Secondary power box provides battery power via Anderson Powerpole connections to front of system.

Antennas to be used:

2 meter J-pole roll-up

Dual band (2 meter/440) aluminum J-pole

Dual band (2 meter/440) mobile mag-mount

300 Ohm twin lead 6 meter vertically polarized omnidirectional end-fed antenna (roll-up or fixed)

G5RV-lite dipole 80 meter-6 meter

40 meter Tak-Tenna (experimental)

As with all Amateur Radio Projects, this one is still in progress. Feel free to contact me with feedback, suggestions, comments or praise.

Idea for this project was built on the efforts of many other Hams. Thanks to all who experimented before.

For more information -

Links: <http://richhand.blogspot.com/>
<http://www.qrz.com/db/K7RFH>

Email: k7rfh@arrl.net

Call sign: K7RFH

Organizations:

Kent Communications Support Team

Mike & Key Amateur Radio Club

BEARS—Boeing Employees Amateur Radio Society



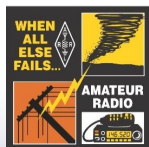
Communications Academy 2010
Portable Radio System

FT-897D Portable Radio System

Wherever you go,
there you are!



Built by K7RFH, Rich



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Yaesu FT-897D Portable Radio System

Purpose of Project:

The original purpose was to provide a radio system that could go anywhere, yet be stored easily in a compact space. This project morphed into a portable radio shack to be used for EMCOMM, Field Days or home base station. Requirements were to be able to run using any adequate power source in fixed, mobile or portable modes.

Capabilities Available in Package:

Total weight of this unit is **27.5 pounds** (12.5 kilograms)

Designed for use on AC or battery power. Power options include providing power to charge handhelds, run power inverter or secondary external radio. Power is regulated using the **Super Powergate 40S** providing auto failover and battery charging when AC is available. Internal power is provided by the **FP-30 power supply**.

Yaesu FT-897D can operate on all Amateur Radio Bands in a variety of modes. Local Emergency frequencies are preprogrammed in memory.

LDG AT-897Plus provides onboard antenna tuning.

Signalink provides soundcard based digital operations.



Design Features:

Unique modular open frame design provides easy access to equipment for maintenance, modification and inspection. **Aluminum framing** significantly reduces weight. Cooling is provided via open over/under air paths, fans not required. Sound chamber layout means no need for external speaker.



Other features:

- Separate HF and VHF/UHF antenna inputs
- External grounding block
- Cigarette lighter DC power output
- Powerpole DC power output
- Powerpole battery power input
- Power monitor displays power consumption and battery status
- Time of day clock
- Laptop/document storage compartment

Radio carrying case is weather resistant **SPUD-7 MTM Case Gard**. Lid can be used to hold documents or provide some weather/sun protection in lowered position.

Pictures demonstrate easy system separation from carrying case; layout of components and simply, clean design elements.

Additional items carried - equipment operation notes, jumper cables, various connectors/adaptors, SWR meter.



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Portable Radio System Entry

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