

HH7700 VHF Handheld Transceiver section 10

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Features

30.00-87.9875 MHz, 25kHz Channel Spacing

500mW to 5 W Selectable Output Power

100 Programmable Memory Channels
Selectable Via Keypad

15 Programmable Preset Channels
Selectable Via Rotary Keypad

FM Modulation

150 Hz Tone or CTCSS Squelch System



Introduction

The HH7700 is a compact, lightweight, VHF/FM handheld radio that provides communications capability in the 30-88 MHz band. It has three selectable power output levels of 500mW, 2W and 5W. The variable power output allows the user to balance the communications range requirements against the battery drain and select the appropriate level for the mission need at any given moment.

The radio is easy to operate, rugged and splash proof. The lightweight and compact design combined with high-quality performance makes it ideal for commercial and military LOS (line-of-sight) communications. It is fully programmable from a computer with the HH7700 programming kit and can be cloned from another radio.

The HH7700 features VOX, whisper mode, optional plug-in encryption and can be programmed for simplex or semi-duplex operation. A number of accessories are available including an external tactical headset and external speaker microphone to provide enhanced usability. Two battery pack options are offered; a standard capacity battery providing up to 10 hours of autonomy and a high capacity battery providing up to 18 hours of uninterrupted service.

The radio is interoperable in FM clear voice mode with Datron's Squad Radio family (PRC1070-5/80-5), the Spectre-V series (PRC2100/2150), the PRC1077 and most other 30-88 MHz VHF/FM radios with or without a 150 Hz tone-squelch or CTCSS squelch system. The HH7700 with HH-SCR1 encryption option is interoperable in FM encrypted voice mode with the PRC1077 radio with KRC1077 encryption option.

HH7700 Transceiver

A VHF/FM synthesized handheld transceiver operating from 30-87.9875 MHz with RF power output levels of 500mW, 2W and 5W. The radio has 15 programmable preset channels selectable via the rotary knob and 100 programmable memory channels available through the keypad. It offers 2,320 frequency combinations at 25 kHz spacing and uses a 150 Hz tone-squelch or CTCSS squelch system. The basic radio includes a flexible, broadband, rubber "duck" antenna and operator manual.

Encryption Option

HH-SCR1

Optional embedded encryption that offers protection against most unwanted eavesdropping. It is a rolling code scrambler with true frequency hopping rather than just frequency sweeping which provides much greater security than competitive rolling code scramblers. Order HH-PRG1 for programming software and cable.

HH7700 Accessories

The following accessories are available with the Squad Radio:

1. Batteries
2. Charger
3. Audio accessories
4. Antennas
5. Carrying accessories

1. Batteries

- a. HH-2200BAT
- b. HH-4000BAT

HH-2200BAT

7.2 Vdc, 2.2 AH, Ni-MH rechargeable battery.

HH-4000BAT

7.4 Vdc, 4.0 AH, High-capacity, Li-Ion rechargeable battery.

2. Charger

HH-CHG1

Single unit battery charger for the HH-2200BAT or HH-4000BAT; 110 or 220 VAC input. Specify AC voltage when ordering.

3. Audio Accessories

a. HH-MIC1

b. HH-TACHS1

c. HH-TACHS2

HH-MIC1

External microphone and speaker.

HH-TACHS1

Tactical headset. Noise cancelling microphone. In-line PTT. Single earphone with headband around forehead.

HH-TACHS2

Tactical headset. Noise cancelling microphone. In-line PTT. Single earphone with rigid plastic headband behind the ear.

4. Antennas

a. HH-ANT1

b. HH-ANT2

HH-ANT1

Flexible, broadband, rubber "duck" antenna. Included with radio.

HH-ANT2

Telescoping antenna for enhanced radio coverage. It is 13.5" in length in the down position and 35.9" when extended.

5. Carrying Accessories

a. HH-CASE1

b. HH-BELTCLIP

HH-CASE1

Carrying case for the radio.

HH-BELTCLIP

Belt clip for carrying the radio hands free.

HH7700 Programming Accessories

The HH7700 Programming Kit is required to program the radio. The following programming accessories are available:

1. HH-PRG1
2. HH-CBL1
3. HH-CLONE-CABLE

HH-PRG1

Windows-based programming kit that allows the user to quickly and easily program the radio with preset memory channels and channel parameters. The kit includes the radio programming software and cable to connect from a computer to the microphone port of the radio. Also includes the programming software for the HH-SCR1 encryptor.

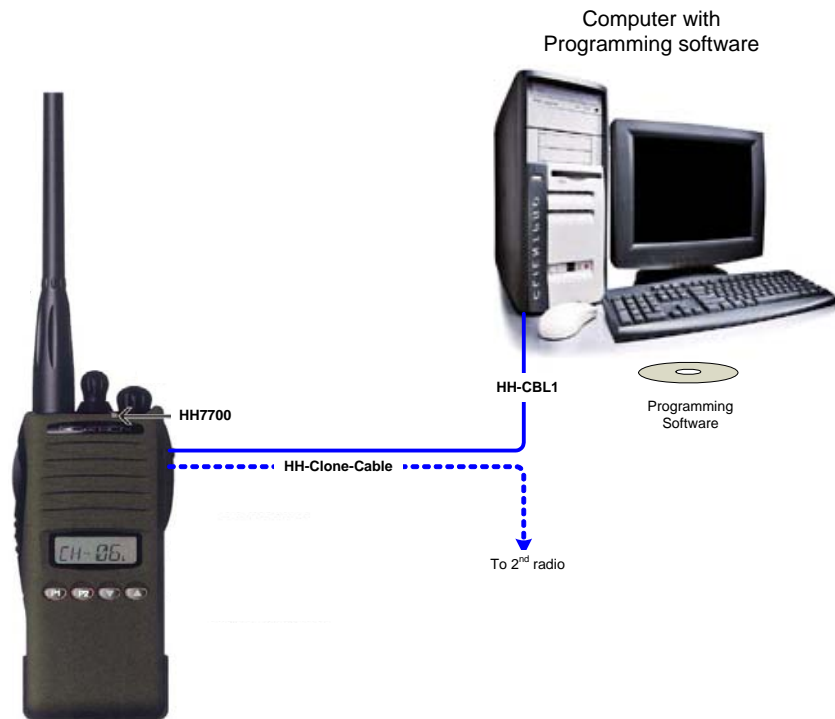
HH-CBL1

Programming cable that connects from a computer to the microphone port of the radio.

HH-CLONE-CABLE

Interface cable between two radios that allows cloning one radio's configuration directly to another.

HH7700 Programming System Diagram



HH7700 Kits

A number of kits are available for the HH7700 that offer different combinations of batteries, antennas and encryption:

1. HH7700-KIT-A
2. HH7700-KIT-B
3. HH7700-KIT-C
4. HH7700-KIT-AE
5. HH7700-KIT-BE
6. HH7700-KIT-CE

HH7700-KIT-A

This kit includes the following accessories:

- HH7700 with operator manual
- HH-ANT1
- HH-ANT2
- HH-2200BAT, qty-2
- HH-BELTCLIP
- HH-CHG1

HH7700-KIT-B

This kit includes the following accessories:

- HH7700 radio with operator manual
- HH-ANT1
- HH-ANT2
- HH-4000BAT, qty-2
- HH-BELTCLIP
- HH-CHG1

HH7700-KIT-C

This kit includes the following accessories:

- HH7700 radio with operator manual
- HH-ANT1
- HH-ANT2
- HH-2200BAT
- HH-4000BAT
- HH-BELTCLIP
- HH-CHG1

HH7700-KIT-AE

This kit is identical to HH7700 KIT-A except it includes the HH-SCR1 encryption option.

HH7700-KIT-BE

This kit is identical to HH7700 KIT-B except it includes the HH-SCR1 encryption option.

HH-7700-KIT-CE

This kit is identical to HH7700 KIT-C except it includes the HH-SCR1 encryption option.

HH7700 Manuals

DWC Product P/N	Operator (-MSOP) (supplied with unit)	Technical (-MS) (order separately)	Operator/Technical (-MS) (supplied with unit)
HH7700	>		
HH7700-PROG	>		
HH-SCR1			>

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