

## HH7700

5 W, 30 – 88 MHz VHF Handheld Transceiver

**Radios: Tactical VHF**



Datron's HH7700 is a compact and lightweight VHF/FM handheld transceiver that provides communications capability in the 30 to 88 MHz band.

The HH7700 offers 2,320 channels at 25 kHz spacing with 15 programmable preset channels available via the rotary knob and 100 additional channels available through the keypad.

RF power output levels of 500 mW, 2 W and 5 W are user selectable.

The H7700 offers VOX for hands free operation and Whisper mode.

The radio configuration can be cloned from another radio.

The HH7700 offers an optional embedded voice scrambler\* which provides an effective means of secure communications.

It is interoperable in FM clear-voice mode with our Squad Radio family (PRC1060/70/80), the PRC1077, the Spectre-V® series (PRC2100/2150), and most other single-channel 30 – 88 MHz VHF/FM radios using a 150 Hz tone-squelch or CTCSS squelch system.

The HH7700 radio is easy to operate and is rugged and splash proof by design.

Datron offers two battery pack options, a standard capacity battery permitting up to 10 hours of operation and a high capacity battery offering up to 18 hours of uninterrupted service.

- 15 Channels
- 150-Hz and CTCSS (PL) Squelch
- Keypad/Display
- Two Battery Choices
- Optional Voice Scrambler
- Hi/Mid/Low Power Levels
- Rugged Construction
- Full Range of Accessories
- Easy to Operate
- VOX Mode
- Whisper Mode

### General Specifications

|                              |   |
|------------------------------|---|
| <b>Frequency Range</b>       | 30 MHz to 87.9875 MHz   |
| <b>CCIR Emission Type</b>    | 16K0F3E (Wide)  |
| <b>Mode</b>                  | Simplex, Half-Duplex  |
| <b>Channel Spacing</b>       | 25 kHz (Wide)   |
| <b>Total Preset Channels</b> | 15  |
| <b>Modulation</b>            | FM, (300 Hz to 3000 Hz)   |
| <b>Display</b>               | Alphanumeric LCD, 14 segments, 5 digits plus icons  |
| <b>Programming</b>           | Computer Programmable   |
| <b>COMSEC</b>                | Optional Voice Scrambler*   |
| <b>Current Consumption</b>   |   |
| • <b>Transmit Mode</b>       | Less than 2.4 A   |
| • <b>Receive Mode</b>        | Less than 0.6 A   |
| <b>Battery Life</b>          | 4000 mAh Li-Ion: Approx. 18 hours (5-5-90, high power)<br>2200 mAh Ni-MH: Approx. 10 hours (5-5-90, high power) |

\*Subject to export regulations





## Environmental Specifications

|                         |                  |
|-------------------------|------------------|
| <b>Temperature</b>      | - 30°C to + 60°C |
| <b>Humidity</b>         | 90%              |
| <b>Water Resistance</b> | Splash Proof     |

| Receiver                     |  |
|------------------------------|--|
| • <b>Receiver Type</b>       | Dual Conversion, Super Heterodyne        |
| • <b>Sensitivity</b>         | Better than - 116 dBm @ 12 dB SINAD      |
| • <b>Squelch</b>             | 150 Hz Tone, CTCSS (39 tones)            |
| • <b>Audio Distortion</b>    | ≤ 5%                                     |
| • <b>Audio Output</b>        | 400 mW (≤ 5% distortion), 500 mW maximum |
| • <b>Output Impedance</b>    | 8 Ω                                      |
| Transmitter                  |  |
| • <b>Output Power</b>        | Hi: 5 W, Mid: 2 W, Low: 500 mW (nominal) |
| • <b>Antenna Impedance</b>   | 50 Ω                                     |
| • <b>Frequency Stability</b> | ± 2.5 ppm (- 30°C to + 60°C)             |
| • <b>FM Hum and Noise</b>    | ≥ 45 dB (Wide)                           |
| • <b>Spurious Response</b>   | ≤ 35 dB                                  |
| • <b>Modulation</b>          | Direct frequency modulation              |
| • <b>Distortion</b>          | ≤ 3%                                     |

## Major Accessories

|                   |   |
|-------------------|---|
| <b>HH-4400BAT</b> | 4.0 AH Li-Ion battery                                       |
| <b>HH-2200BAT</b> | 2.2 AH Ni-MH battery  |
| <b>HH-CHG1</b>    | Battery Charger   |
| <b>HH-ANTI</b>    | Flexible 30 - 88 MHz antenna with internal matching network |
| <b>HH-CASE1</b>   | Case  |
| <b>HH-MIC1</b>    | Handheld Microphone   |
| <b>HH-TACHS1</b>  | Tactical Headset (microphone and speaker)                   |
| <b>HH-SCRI</b>    | Voice Scrambler*  |

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All specifications are subject to change without notice  
The information contained herein is for reference only and does not constitute a warranty of performance

Partnered Supplier



sales@eylex.com.au  
www.eylex.com.au

