



## SC-VHF1 & SC-UHF1 Professional Portable Transceivers

Datron's SC line of professional portable transceivers provides users with compact, feature-rich, handheld communications anywhere in the world. Products are available in the VHF band (136 – 174 MHz) and in the UHF band (403 – 430 MHz and 450 – 480 MHz).

Standard features common to all transceivers in the SC family include the following:

- **32 channels of operation.** Each channel can be programmed to operate in a simplex, half-duplex, or receive-only mode.
- **Large keypad/display.** The transceivers have an easy to use keypad that is DTMF ready.
- **Scan/priority scan.** Scan and priority scan ensures that the user will not miss any important calls on his Priority Channel. Both features are user selectable, and the Priority Channel is user programmable.
- **Cloning.** A radio can be cloned to any other radio and will transfer the data within seconds.
- **Durable Design.** The radios have been developed to MIL-SPEC requirements allowing operation in extremely harsh environments.
- **Battery Save.** The internal battery save feature allows longer use between charges by deactivating certain circuitry that are not in use.
- **Low Battery Indicator.** A low battery indicator is located in the radio's display. Under certain conditions, the radio will automatically reduce the output RF power to 1 watt to preserve battery life.
- **Function/Features Keys.** These controls allow the user to lock the keypad, enable backlighting, reduce the Transmit RF power level, and disable the audio tones as needed.
- **Direct/Rotary channel select.** Provides direct channel access through the keypad or through the rotary channel selector.

Datron is always happy to provide technical or applications help to its customers. For more information about these professional portable products, please contact the Datron factory or your Regional Sales Director.



- **32 Channels**
- **CTCSS (PL), DCS (DPL)**
- **Keypad/Display**
- **Busy channel Lockout**
- **Auto Battery Save**
- **Scan/Priority Scan**
- **Hi/Lo Power Levels**
- **Rugged Construction**
- **Easy to Operate**



### GENERAL

Size	6.4" H x 2.54" W x 1.3" D
Weight	15.5 ounces
Dc Power Supply	Rechargeable battery, 10.8 Vdc
Current drain (squelched)	29 mA, typical
Temperature Range	-30 to +60 degrees C.

### Electrical

Frequency range	SC-VHF1: 136 – 174 MHz SC-UHF1: 403-430 MHz, 450-482 MHz
Channel Capacity	32
Channel Increments	SC-VHF1: 12.5 kHz SC-UHF1: 5/6.25 kHz
Operating BW	SC-VHF1: 15 MHz SC-UHF1: 20 MHz
Frequency Stability	SC-VHF1: +/- 5ppm @ 25 kHz; +/- 2.5ppm @ 12.5 kHz SC-UHF1: +/- 5ppm @ 25 kHz; +/- 2.5ppm @ 12.5 kHz

### Transmitter

Power Output	SC-VHF1: 1, 5 watts SC-UHF1: 1, 4 watts
Mod Limiting	SC-VHF1: +/- 5 kHz @ 25 kHz; +/- 2.5 kHz @ 12.5 kHz SC-UHF1: +/- 5 kHz @ 25 kHz; +/- 2.5 kHz @ 12.5 kHz
Spurious/harmonics	SC-VHF1: -70 dBc SC-UHF1: -63 dBc
Audio distortion	5%, maximum
FM hum and noise	-40 dB
FCC Designator	16K0F3E/14K8F1D/14K8F3D
FCC Type Acceptance	SC-VHF1: Parts 22, 74, 90 SC-UHF1: Parts 22, 74, 90, 95

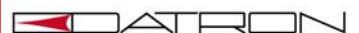
### Receiver

Sensitivity	0.25 uV
Squelch Threshold	0.20 uV
Selectivity (adjacent channel)	SC-VHF1: -75 dB SC-UHF1: -70 dB
Intermodulation	SC-VHF1: -70 dB SC-UHF1: -67 dB
Spurious	-67 dB
Audio output @ 8 ohms and distortion	250 mW with 10% THD

### Accessories

<b>RCSC-21</b> Rapid rate drop in charger	<b>BPSC1</b> 1000mAh NiCad battery pack
<b>SMSC</b> Speaker/ microphone	<b>RDSCV</b> VHF flexible helical-wound antennas
<b>LCSC</b> leather carrying case	<b>RDSCV</b> UHF flexible helical-wound antennas
<b>WCSC</b> wall charger	

All specifications subject to change without notice. All measurements made in accordance with TIA/EIA standards  
Rev 20060706BH



**Datron World Communications, Inc.**

3030 Enterprise Ct. Vista, CA, USA 92081  
Tel: +1-760-597-1500  
Fax: +1-760-597-1510