RADARC SIMOCO SRM9020

SRM9020 Controller

Basic Operation

Use the Scroll Up/Down (▲▼) buttons to select the required operating frequency.

The Low Power On/Off button (■) toggles between low power (On – 5W) or high power (OFF – 25W).

The Squelch Override button (**F**) toggles the squelch. On = Squelch Open, OFF = Squelch Closed.

The Scan On/Off (**S**) button toggles scanning.

A single push of the RSSI/Menu button (**M**) displays the RSSI (Received Signal Strength Indicator). Display is in dBm (decibels relative to 1mW). Display will revert to normal after 10secs or if the **S** button is pushed (-107dBm is 1µV -87dBm is 10µV -67dBm is 100µV)

Available Frequencies

70.2625MHz	All Mode Section	**S**	70.3875MHz	Internet Voice Gateways	**S**
70.2750MHz		**S**	70.4000MHz	Used by RAYNET	**S**
70.2875MHz		**S**	70.4125MHz	Internet Voice Gateways	**S**
70.3000MHz	RTTY/FAX		**70.4250MHz**	**Tuesday Net (21:30hrs)**	**S**
70.3125MHz	Digital Modes		70.4375MHz	MB7FM simplex repeater (Tring)	**S**
70.3250MHz	Packet Dx Cluster		**70.4500MHz**	**Calling Channel**	**P**
70.3375MHz	Digital Modes		70.4625MHz	Digital Modes	
70.3500MHz	Internet Voice Gateways Can be used by RAYNET	**S**	70.4750MHz	Voice	**S**
70.3625MHz	Internet Voice Gateways	**S**	70.4875MHz	Digital Modes	
70.375MHz	Used by RAYNET	**S**			

S = Scan Group **P** = Priority Channel

When scanning, the priority channel is scanned every other channel.

Advanced Features

Setup Menus

The RSSI/Menu button (**M**) also gives access to the setup menus. Push it twice and the display will show '**SETUP**' then '**EDIT**'.

Push ▲ once – display shows '**USEROP**' then push ▲ again to cycle through '**KBEEP**', '**BLITE**' and '**DUALW**' options. At each option the setting can be toggled using the **S** button.

KBEEP – Keyboard beeps ON/OFF.

BLITE – Display backlight ON/OFF.

DUALW – Dual watch ON/OFF. Not Used.

Further pushes of the **M** button will cycle through **SQL**, **ALRT-V** and **INFO**.

SQL – Use ▲▼ to set squelch level from 00 to 15. Default is 01. 00 is OFF (Squelch open).

ALRT-V – Use ▲▼ to set the level of key beeps and alerts from -31 to 31 (relative to volume level). Default is 00.

INFO – Shows software version (V5.72) and radio serial number alternately.

Changing the Scan Group

Pressing the ■ button while scanning has stopped on a channel will temporarily remove the channel from the Scan Group (channel skip). Skipped channels are cancelled when exiting from scan mode.

The Scan Group can also be edited as follows :

While scanning press the **F** button. Scanning will stop and the display will show one of the scanned channels with a **Y** at the right hand end. Use the ▲▼ buttons to scroll through the channels.

Pressing ■ will delete the displayed channel from the scan group (the **Y** will dissappear from the display).

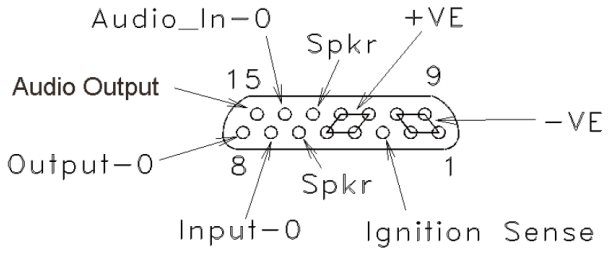
Pressing **F** will add the displayed channel to the scan group (the **Y** will appear on the display).

Pressing **M** will make the displayed channel the Priority channel, indicated by a **P** at the right-hand end of the display. The previously set priority channel will revert to being a normal member of the scan group.

Pressing **S** will resume scanning.

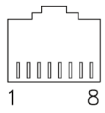
The Scan Group can have a maximum of 15 channels.

Connections



Viewed looking into Connector on rear of Transceiver

Name	DB15 Pin numbers
-VE (Gnd)	1, 2, 9, 10
+VE (+13.8V)	4, 5, 11, 12
Speaker	6, 13
General Input-0 (PTT/RTS)	7
General Output-0 (CD/CTS)	8
Ignition_Sense Input	3
Audio Output	15
Audio_In0 (Handsfree Mic)	14



Viewed looking into Connector on front of Transceiver

Name	Front Pin numbers
Tx-Data (0,5V)	1
Rx-Data (0,5V)	2
On/Off input	3
Mic Ground	4
+13.8V (Switched OP)	5
Handset Audio OP (Flat)	6
GROUND	7
Mic Audio IP (Pre-emp or Flat)	8