

General Characteristics

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|--------------------------|--|
| 1. Radio Compliance | : FCC Part 2, 15, 80, DOC V. DSC (SC101-STD) |
| 2. Number of Channels | : All USA, International, Canadian and 10 Weather channels are included. |
| 3. Input Voltage | : 13.8 VDC+/-15% |
| 4. Input Current | : TX Less than 5.0A Max at 25 Watts
Less than 1.5A Max at 1 Watt
: RX (squellch) less than 250mA Max |
| 5. Modulation Type | : Frequency modulated 16K0F3E (G3E), G2B for DSC |
| 6. Operating Temperature | : -20°C ~ +55°C |

Transmitter Characteristics

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|---------------------------------|--|
| 1. Frequency Range | : 156.025 to 157.425 MHz |
| 2. Channel Spacing | : 25KHz |
| 3. RF Output Power | : 25W / 1W, selectable into 50 ohms at 13.8VDC |
| 4. Frequency Stability | : +/-0.001% (-20°C ~ +55°C) |
| 5. Frequency Deviation | : +/-5KHz Max |
| 6. Modulation AF Response | : Within the limit of +1/-3 dB at 6dB/oct. frequency curve (300 ~ 3000Hz) reference (1000Hz) |
| 7. Time-out-timer | : 5 minutes +/-10% |
| 8. Hum & Noise Level | : Less than -40dB below audio
Less than 10% at 1KHz for +/-3KHz |
| 9. Spurious & Harmonic Emission | : Attenuated at least 43+10 Log Power (below rated radiated carrier power) |

Receiver Characteristics

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|---------------------------------|--|
| 1. Frequency Range | : 15.025 to 163.275MHz in 25KHz increment |
| 2. AF Output | : 3 Watts (Less than 10% at 1KHz) |
| 3. AF Response | : 6 dB/oct de-emphasis +1/-3dB from 300~3000Hz |
| 4. Sensitivity | : 0.3uV for 12 SINAD |
| 5. Squellch Sens. Threshold | : 0.15uV |
| 6. Tight Squellch Sensitivity | : 0.95uV |
| 7. Adjacent Channel Selectivity | : Better than 70dB |
| 8. Spurious Image Rejection | : Better than 70dB |
| 9. Intermodulation | : Better than 65dB |
| 10. FM Hum and Noise | : Less than -40dB |

DSC

- | | |
|------------------------|---------------------------|
| 1.Mark | :1300Hz |
| 2.Space | :2100Hz |
| 3. Frequency Stability | : +/-10Hz (-20°C ~ +50°C) |
| 4.Baulate | : 1200 bit/sec |
| 5.Modulation Index | :2+/-10% |
| 6. DSC Format | : RTCMSC101 |

Channel List: VHF Marine Channel Frequencies

USA Version

CH	TX	RX	Type of Operation
01A	156.050	156.050	Port operation &Com'l
05A	156.250	156.250	Port operation
06	156.300	156.300	Intership safety
07A	156.350	156.350	Com'l
08	156.400	156.400	Com'l
09	156.450	156.450	Boater calling
10	156.500	156.500	Com'l
11	156.550	156.550	Com'l
12	156.600	156.600	Port operation
13#	156.650	156.650	Intership safety
14	156.700	156.700	Port operation
15*		156.750	Environmental
16	156.800	156.800	Emerg/calling
17**	156.850	156.850	State controlled
18A	156.900	156.900	Com'l
19A	156.950	156.950	Com'l
20	157.700	161.600	Port operation
20A	157.000	157.000	Port operation
21A##	157.050	157.050	US Govern. only
22A	157.100	157.100	Coast Guard
23A##	157.150	157.150	US Govern. only
24	157.200	161.800	Public corresp.
25	157.250	161.850	Public corresp.
26	157.300	161.900	Public corresp.
27	157.350	161.950	Public corresp.
28	157.400	162.000	Public corresp.

CH	TX	RX	Type of Operation
63A	156.175	156.175	Port operation &Com'
65A	156.275	156.275	Port operation
66A	156.325	156.325	Port operation
67#	156.375	156.375	Com'l
68	156.425	156.425	Non com'l
69	156.475	156.475	Non com'l
70	156.525	156.525	DSC
71	156.575	156.575	Non com'l
72	156.625	156.625	Non com'l
73	156.675	156.675	Port operation
74	156.725	156.725	Port operation
77**	156.875	156.875	Port operation
78A	156.925	156.925	Non com'l
79A	156.975	156.975	Com'l
80A	157.025	157.025	Com'l
81A##	157.075	157.075	US Govern. only
82A##	157.125	157.125	US Govern. only
83A##	157.175	157.175	US Govern. only
84	157.225	161.825	Public corresp.
85	157.275	161.875	Public corresp.
86	157.325	161.925	Public corresp.
87	157.375	161.975	Public corresp.
88	157.425	162.025	Public corresp.
88A	157.425	157.425	Com'l

* Transmitting is disabled.

** 1W only

1W initially. Can be switched to 25W.

Not for use by the general public in U.S. waters.

Canadian Version

CH	TX	RX	Type of Operation
01	156.050	160.650	Public corresp.
02	156.100	160.700	Public corresp.
03	156.150	160.750	Public corresp.
04A	156.200	156.200	Coast Guard Com'l
05A	156.250	156.250	Port operation
06	156.300	156.300	Intership, Safety
07A	156.350	156.350	Com'l, Intership
08	156.400	156.400	Com'l, Intership
09	156.450	156.450	Boater calling
10	156.500	156.500	Com'l, Intership
11	156.550	156.550	Com'l, Intership
12	156.600	156.600	Port operation
13	156.650	156.650	Intership safety
14	156.700	156.700	Port operation
15	156.750	156.750	Com'l, Non-com'l
16	156.800	156.800	Emerg/calling
17	156.850	156.850	State controlled
18A	156.900	156.900	Com'l
19A	156.950	156.950	Coast Guard
20	157.000	161.600	Coast Guard
21A	157.050	157.050	Coast Guard
22A	157.100	157.100	Coast Guard
23	157.150	161.750	Public corresp.
24	157.200	161.800	Public corresp.
25	157.250	161.850	Public corresp.
26	157.300	161.900	Public corresp.
27	157.350	161.950	Public corresp.
28	157.400	162.000	Public corresp.
60	156.025	160.625	Public corresp.
61A	156.075	156.075	Coast Guard Com'l
62A	156.125	156.125	Coast Guard
64A	156.225	156.225	Com'l

CH	TX	RX	Type of operation
65A	156.275	156.275	Port operation
66A	156.325	156.325	Port operation
67	156.375	156.375	Com'l
68	156.425	156.425	Non-com'l
69	156.475	156.475	Com'l
70	156.525	156.525	DSC
71	156.575	156.575	Non-com'l
72	156.625	156.625	Non-com'l
73	156.675	156.675	Com'l
74	156.725	156.725	Com'l
77	156.875	156.875	Port operation
78A	156.925	156.925	Non-com'l
79A	156.975	156.975	Com'l
80A	157.025	157.025	Com'l
81A	157.075	157.075	Environmental
82A	157.125	157.125	Coast Guard
83A	157.175	157.175	Coast Guard
84	157.225	161.825	Public corresp.
85	157.275	161.875	Public corresp.
86	157.325	161.925	Public corresp.
87	157.375	161.975	Public corresp.
88	157.425	162.025	Public corresp.

International Version

01	156.050	160.650	Public corresp.
02	156.100	160.700	Public corresp.
03	156.150	16.0750	Public corresp.
04	156.200	160.800	Public corresp.
05	156.250	160.850	Public corresp.
06	156.300	156.300	Intership safety
07	156.350	160.950	Public correps.
08	156.400	156.400	Com'l
09	156.450	156.450	Boater calling
10	156.500	156.500	Com'l
11	156.550	156.550	Com'l
12	156.600	156.600	Port operation
13	156.650	156.650	Intership safety
14	156.700	156.700	Port operation
15	156.750	156.750	Com'l,Non-com'l
16	156.800	156.800	Emerg/calling
17	156.850	156.850	State controlled
18	156.900	161.500	Port operation
19	156.950	161.550	Port operation
20	157.000	161.600	Port operation
21	157.050	161.650	Port operation
22	157.100	161.700	Port operation
23	157.150	161.750	Public corresp.
24	157.200	161.800	Public corresp.
25	157.250	161.850	Public corresp.
26	157.300	161.900	Public corresp.
27	157.350	161.950	Public corresp.
28	157.400	162.000	Public corresp.
60	156.025	160.625	Public corresp.
61	156.075	160.675	Public corresp.
62	156.125	160.725	Public corresp.
63	156.175	160.775	Public corresp.
64	156.225	160.825	Public corresp.
65	156.275	160.875	Port operation
66	156.325	160.925	Public corresp.
67	156.375	156.375	Com'l

CH	TX	RX	Type of Operation
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CH	TX	RX	Type of Operation
68	156.425	156.425	Non com'l
69	156.475	156.475	Port operation
70	156.525	156.525	DSC
71	156.575	156.575	Port operation
72	156.625	156.625	Non com'l
73	156.675	156.675	Port operations
74	156.725	156.725	Port operations
77	156.875	156.875	Port operations
78	156.925	161.525	Public corresp.
79	156.975	161.575	Port operation
80	157.025	161.625	Port operation
81	157.075	161.675	Port operation
82	157.125	161.725	Public corresp.
83	157.175	161.775	Public corresp.
84	157.225	161.825	Public corresp.
85	157.275	161.875	Public corresp.
86	157.325	161.925	Public corresp.
87	157.375	161.975	Public corresp.
88	157.425	162.025	Public corresp.

VHF Marine Weather Channels (USA Version)

CH	Receive Frq.	Service
WX0	163.275	NOAA weather
WX1	162.550	NOAA weather
WX2	162.400	NOAA weather
WX3	162.475	NOAA weather
WX4	162.425	NOAA weather
WX5	162.450	NOAA weather
WX6	162.500	NOAA weather
WX7	162.525	NOAA weather
WX8	161.650	Canadian weather
WX9	161.775	Canadian weather

Transmitting is disabled when WX0~WX9 is displayed.