



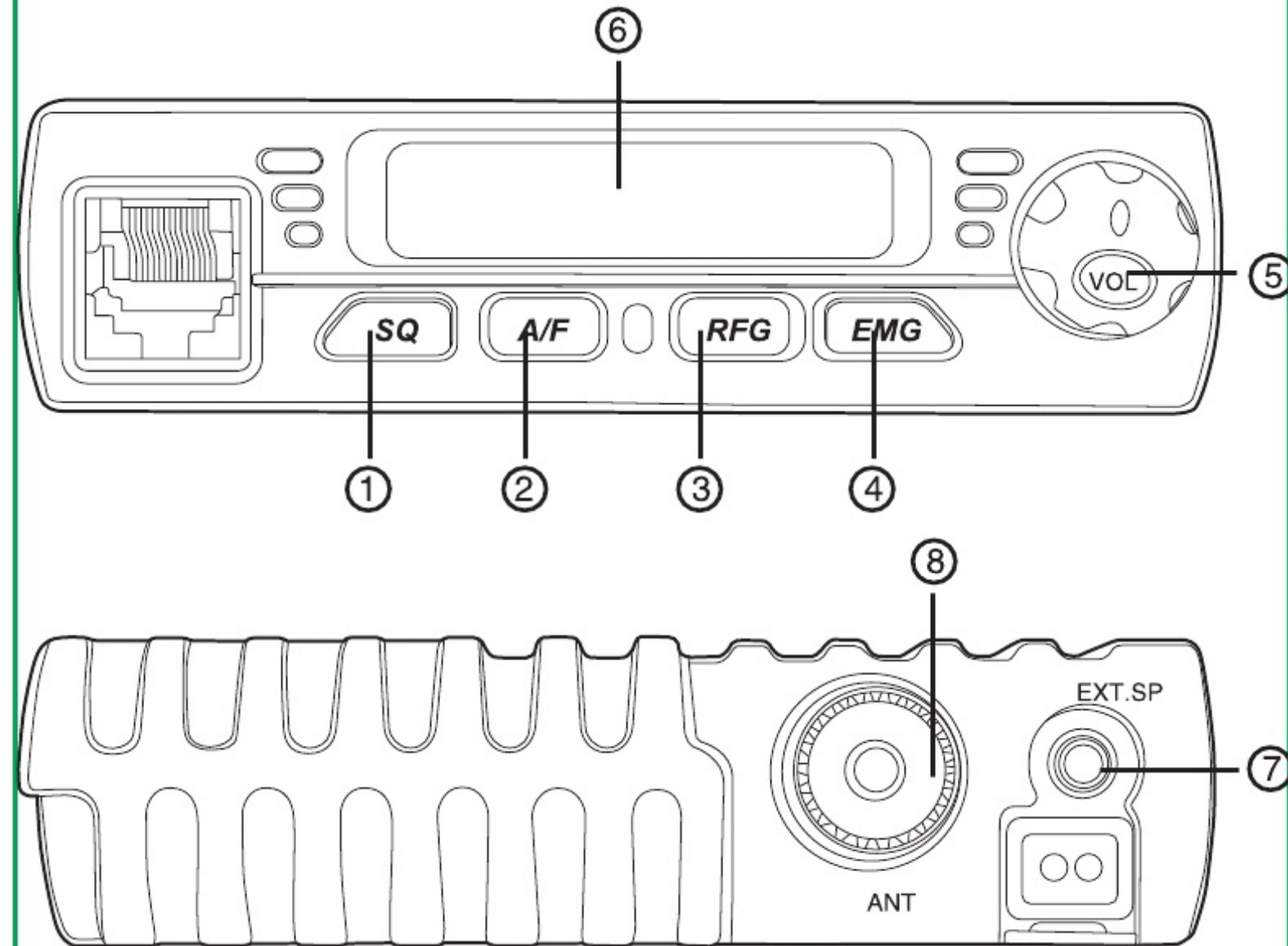
RECYCLABLE PACKAGING

SMART 10 METER AMATEUR MOBILE RADIO



USER'S MANUAL

■ KNOW ABOUT THIS RADIO



1	Squelch control, SQ, ASQ switch key
2	Mode/Scan key
3	RF Gain control
4	CH9/CH19/Keypad lock
5	Power On/Off Volume control
6	LCD
7	External speaker Jack
8	Antenna Jack

■ HOW TO USE THIS RADIO

❏ Power On/Off the radio

1. Turn VOL switch clockwise to power on the radio, the LCD displays the Norms and then displays channel number.
2. Turn VOL switch anti-clockwise, until hear Ka Ta, the radio is powered off.

❏ Volume Control

Turn clockwise to increase volume, anti-clockwise to decrease volume.

❏ Channel Control

1. Short press [UP] or [DN] to change working channel.
2. Hold [UP] or [DN] can fast change working channel.

❏ Squelch Level Control (O.F to 2.8 level available)

1. Short press **SQ**, until LCD displays SQ and then displays X.X,X.X stands for SQ level, the bigger value stands for high squelch level.
2. Short press [UP] or [DN] to change SQ level.
3. Hold [UP] or [DN] can fast change SQ level.
4. Hold **SQ** or wait for 3 seconds to store and exit.

❏ ASQ Control(A.1-A.9 level available)

1. Hold **SQ** key, until LCD displays AQ, the ASQ function turned on. The LCD will displays "A.X", "X" stands for the ASQ level.
2. Short press microphone [UP] or [DN] to change SQ level.
3. Hold microphone [UP] or [DN] can fast change ASQ level.
4. Hold **SQ** or wait for 3 seconds to store and exit.

✘ Mode Control

1. Short press **A/F** key to switch between AM/FM mode.
2. The LCD displays the selected mode.

✘ RF Gain Control

1. Short press **RFG** key, LCD displays R and the present RF gain level flashes.
2. Short press microphone [UP] or [DN] to change level.
3. Short press **RFG** key to exit RF gain level control.

Note: When RFG function is on, the LCD displays R. If RFG level is 6 means the attenuation is 6dBm.

✘ Emergency Channel

1. Short press **EMG** key to choose CH9, the channel number flashes.
2. Short press **EMG** key again to choose CH19, the channel number flashes.
3. Short press **EMG** key third time to return to last normal channel.

✘ Keypad Lock

1. Hold **EMG** key for over 2 seconds to lock the keys, LCD displays "LC".
2. Hold **EMG** key for over 2 seconds again to unlock the keys, LCD displays OF.

Note: In lock Mode all keys except PTT is valid.

✘ Scan Function

1. Hold **A/F** to start scan function, "SC" flashes in the LCD;
2. Press [UP] or [DN] to change scan direction during scan;
3. Press **A/F** or [PTT] key to exit scan function.

✘ Band Control

1. Hold **A/F** to power on radio, until LCD displays the bands;
2. Press [UP] or [DN] to choose wanted bands;
3. Press off and power on again.

✘ High/Low Control

1. Hold **RFG** and PTT key to power on;
2. Press [UP] or [DN] to choose wanted power level, PH is 8W, PL is 4W;
3. Power off and power on again.

✘ Install External Speaker

Choose a 8 Ω external speaker with 3.5mm mono connector.

✘ Resume Factory Default

1. Hold **SQ** key to power on radio, until the LCD displays "RT".
2. All channel and function setting will resume factory default after above operation.

■ SPECIFICATION

GENERAL		
Modulation Mode	AM/FM	
Frequency Range	25.615-30.105MHz	
Frequency Tolerance	± 5.0ppm	
Input Voltage	13.2V	
Dimensions	109x104x25mm	
Weight	421g	
Ferquency Control	PLL Synthesizer	
Operating Temperature Range	-20℃~+50℃	
Current Drain	Transmit	2A MAX
	Receive	Squelched 0.3A
	VOL Max	0.8A
Antenna Connector	UHF,SO-239	
TRANSMITTER		
Power Output	8 Watts FM/AM	
Transmission interference	inferior to 4nW(-54dBm)	
Frequency Response	300-3000Hz	
Modulated signal distortion	inferior to 5%	
Output Impedance	50 ohms	
RECEIVER		
Sensitivity	Less than 1uV for 10dB(S+N)/N	
Image Rejection	70dB	
Adjacent Channel Rejection	60dB	
IF Frequencies	1st 10.695MHz	
	2nd 455KHz	
Automatic Gain Control(AGC)	Less than 10dB change in audio	
	Output for inputs from 10 to 50000uV	
Squelch	less than 1uv	
Audio Output Power	1Watts	
Frequency Response	300-3000Hz	

■ FREQUENCIES TABLE

BAND ID	AE	BE	CE	DE	EE	FE	9E	HE	IE	LE
CH-01	25.615	26.065	26.515	26.965	27.415	27.865	28.315	28.765	29.215	29.665
CH-02	25.625	26.075	26.525	26.975	27.425	27.875	28.325	28.775	29.225	29.675
CH-03	25.635	26.085	26.535	26.985	27.435	27.885	28.335	28.785	29.235	29.685
CH-04	25.655	26.105	26.555	27.005	27.455	27.905	28.355	28.805	29.255	29.705
CH-05	25.665	26.115	26.565	27.015	27.465	27.915	28.365	28.815	29.265	29.715
CH-06	25.675	26.125	26.575	27.025	27.475	27.925	28.375	28.825	29.275	29.725
CH-07	25.685	26.135	26.585	27.035	27.485	27.935	28.385	28.835	29.285	29.735
CH-08	25.705	26.155	26.605	27.055	27.505	27.955	28.405	28.855	29.305	29.755
CH-09	25.715	26.165	26.615	27.065	27.515	27.965	28.415	28.865	29.315	29.765
CH-10	25.725	26.175	26.625	27.075	27.525	27.975	28.425	28.875	29.325	29.775
CH-11	25.735	26.185	26.635	27.085	27.535	27.985	28.435	28.885	29.335	29.785
CH-12	25.755	26.205	26.655	27.105	27.555	28.005	28.455	28.905	29.355	29.805
CH-13	25.765	26.215	26.665	27.115	27.565	28.015	28.465	28.915	29.365	29.815
CH-14	25.775	26.225	26.675	27.125	27.575	28.025	28.475	28.925	29.375	29.825
CH-15	25.785	26.235	26.685	27.135	27.585	28.035	28.485	28.935	29.385	29.835
CH-16	25.805	26.255	26.705	27.155	27.605	28.055	28.505	28.955	29.405	29.855
CH-17	25.815	26.265	26.715	27.165	27.615	28.065	28.515	28.965	29.415	29.865
CH-18	25.825	26.275	26.725	27.175	27.625	28.075	28.525	28.975	29.425	29.875
CH-19	25.835	26.285	26.735	27.185	27.635	28.085	28.535	28.985	29.435	29.885
CH-20	25.855	26.305	26.755	27.205	27.655	28.105	28.555	29.005	29.455	29.905
CH-21	25.865	26.315	26.765	27.215	27.665	28.115	28.565	29.015	29.465	29.915
CH-22	25.875	26.325	26.775	27.225	27.675	28.125	28.575	29.025	29.475	29.925
CH-23	25.905	26.355	26.805	27.255	27.705	28.155	28.605	29.055	29.505	29.955
CH-24	25.885	26.335	26.785	27.235	27.685	28.135	28.585	29.035	29.485	29.935
CH-25	25.895	26.345	26.795	27.245	27.695	28.145	28.595	29.045	29.495	29.945
CH-26	25.915	26.365	26.815	27.265	27.715	28.165	28.615	29.065	29.515	29.965
CH-27	25.925	26.375	26.825	27.275	27.725	28.175	28.625	29.075	29.525	29.975
CH-28	25.935	26.385	26.835	27.285	27.735	28.185	28.635	29.085	29.535	29.985
CH-29	25.945	26.395	26.845	27.295	27.745	28.195	28.645	29.095	29.545	29.995
CH-30	25.955	26.405	26.855	27.305	27.755	28.205	28.655	29.105	29.555	30.055
CH-31	25.965	26.415	26.865	27.315	27.765	28.215	28.665	29.115	29.565	30.015
CH-32	25.975	26.425	26.875	27.325	27.775	28.225	28.675	29.125	29.575	30.025
CH-33	25.985	26.435	26.885	27.335	27.785	28.235	28.685	29.135	29.585	30.035
CH-34	25.995	26.445	26.895	27.345	27.795	28.245	28.695	29.145	29.595	30.045
CH-35	26.005	26.455	26.905	27.355	27.805	28.255	28.705	29.155	29.605	30.055
CH-36	26.015	26.465	26.915	27.365	27.815	28.265	28.715	29.165	29.615	30.065
CH-37	26.025	26.475	26.925	27.375	27.825	28.275	28.725	29.175	29.625	30.075
CH-38	26.035	26.485	26.935	27.385	27.835	28.285	28.735	29.185	29.635	30.085
CH-39	26.045	26.495	26.945	27.395	27.845	28.295	28.745	29.195	29.645	30.095
CH-40	26.055	26.505	26.955	27.405	27.855	28.305	28.755	29.205	29.655	30.105