CRT ELECTRO UV

Dual band transceiver

144-146 MHz RX/TX   430-440 MHz RX/TX

English manual copyright CRT France 2021

CE

CIC
ISO9001
ISO14001

CONTENTS	PAGES

SYMBOLS DESCRIPTION

Please carefully read the instructions	
Information on recycling, not throwing your material in the trash at the end of life, Bring it to special aera to be recycling	
DC using	
Keep dry	
Shield symbol	
CE conformity symbol	
Warning	
Restrictions	

STORAGE , TRANSPORT, USING

Storage : Classe 1 -30/85% (° Humidity)

Transport :- 30/85% (° Humidity)

operating temperature –30 à + 50°

Using cycle TX 10%/RX 90%

 This transceiver corresponds to the requirements of europeans directives RED 2014/53/EU and answers the Europeans standards of telecommunications EN 62 368, EN 50665, EN 62311, EN 55035, EN 55032, EN 301 489-15, EN 301 489-1, EN 303 345-3, EN 303 345-1, EN 301 783.

IMPORTANT : this receiving transmetter works on not free frequencies in the use. The user has to possess a radio license amateur radio (certificate of radio operator HAM) to use it (in emission) and only on the frequencies authorized in radio amateurs 144-146 MHz / 430-440 MHz.

This model is approved for use in these countries : AT-BE-BG-CH-CY-CZ -DK-EE-ES-FI-FR-DE-UK-EL-HR-HU-IE-IS-IT-LI-LU-LT-LV-MT-NL-NO-PL -PT-RO-SK-SI-SE and in CEPT countries and those no CEPT countries that implement the CEPT regulation TR 61/01.

⚠ Warned before use

Thank you for choosing this CRT vehicle transceiver CRT always provides high quality products. Though friendly design for user, this transceiver is technically complicated and some features may be new to you. Consider this manual to be a personal tutorial from the designers, allow the manual to guide you through the learning process now, then act as a reference in the coming years.

Precautions

⚠ Please observe the following precautions to prevent fire, personal injury, or transceiver damage.

⚠ Do not attempt to configure your transceiver while driving, it is dangerous.

⚠ This transceiver is designed for a 13.8V DC power supply. Don't use a 24V battery to power on the transceiver.

⚠ Do not place the transceiver in excessively dusty, humid or wet areas, nor unstable surfaces.

⚠ Do not connect the antenna while transmission, risk of burn or electric shock.

⚠ Please keep it away from interferential devices (such as TV, generator etc.) devices (such as TV, generator etc.)

⚠ For those fitted with pacemakers are advised to move away from the antenna during transmission, mainly in high power, and especially do not touch it.

⚠ Never allow metal objects or son electrical contact with the part or internal electrical connection to the risk of electric shock.

⚠ Avoid exposing the transceiver to temperatures below -30 ° C. and above +60 ° C, the temperature of the dashboard inside a vehicle can sometimes exceed 80 ° C, which can damage irreparable damage to your machine in case of prolonged exposure. Not exposed to prolonged direct sunlight or place it near heaters.

⚠ Do not place anything on top of the apparatus that would interfere with cooling.

⚠ Check that your battery is sufficiently charged to avoid rapidly exhausting its resources.

⚠ It is important to turn off your device before starting the vehicle to avoid damage caused by spikes in the ignition.

⚠ When replacing the fuse, you must use a fuse 10A 250V type F
In no case a higher value!, Otherwise a fire hazard.

⚠ If an abnormal odor or smoke is detected coming from the transceiver, turn OFF the power immediately.
Contact an CRT service station or your dealer.

⚠ Do not transmit with high output power for extended periods; the transceiver may overheat.

⚠ Keep out from children.

Attention :
• Before using your transceiver please connect an antenna on the connector PL on back side then check the SWR before emitting. A too important SWR can entail the destruction of the transistors of power which are not flatware by the guarantee

1. FUNCTIONS & FEATURES

 CRT ELECTRO has an elegant and sturdy shape. The ergonomic front panel combined with an intuitive menu, ensures easy access and management of the advanced functions available to the user . This amateur mobile transceiver is especially conceived for drivers and it pursues philosophy of innovation and practicality. The "key functions" are:

♦ 500 programmable memory channels, identifed by editing name;

♦ VOX function

♦ Noise Reduction

♦ 1.44 Inch TFT display

♦ Careful selection of higher ranked materials, adoption of the most modern technological solutions, as well as the most efficient cooling cycle that ensures stability and long life of the amplifier architecture;

♦ Amateur mode and professional mode for different operation requirement;

♦ CTCSS, DCS, DTMF, 2Tone, 5Tone setting for each single channel;

♦ 11 groups fixed scrambler code plus self define scrambler code;

♦ LCD brightness control;

♦ Main unit and microphone key lock function;

♦ Compander function;

♦ Tone Pulse frequency;

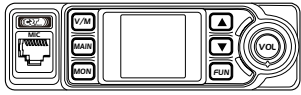## *Version notice:*

Europe version : Frequency ranges cover 144-146Mhz ,430-440Mhz
              (According to the "R ED 2014/53/EU" directive).
USA version : Complies with Part 95E and Part 15B FCC rules.
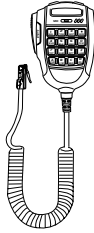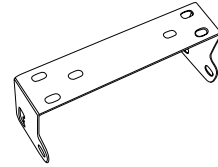   Frequency information as following chart.
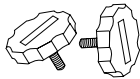
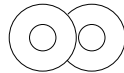## 2. ACCESSORIES

2.1 Standard Accessories

Transceiver

Microphone

Mobile Bracket

Adjusting screws

non–slip mat
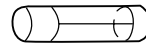
Fuse(10A 250V)
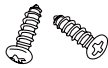
Screws

Pads
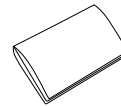
manual

2.2 Optional Accessories
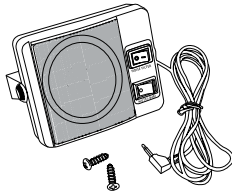
External Speaker MS 120

Car Antenna UT72

software

PC cable

5
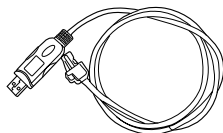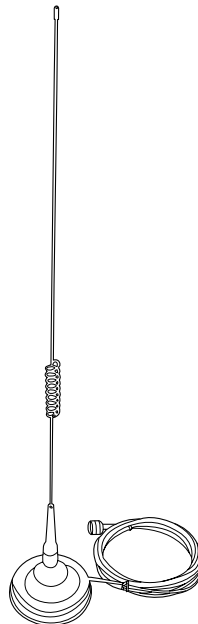
3. GETTING ACQUAINTED

3.1 Front panel

VFO/Channel mode switch

Main channel

LCD

Up

Down

Indicator

Monitor

Programming port/ microphone jack

Menu

Power on, volume switch

3.2 Rear panel

Antenna connector

External speaker jack

3.3 Microphone

Up /Down key

MIC

Indicator

PTT

Number key
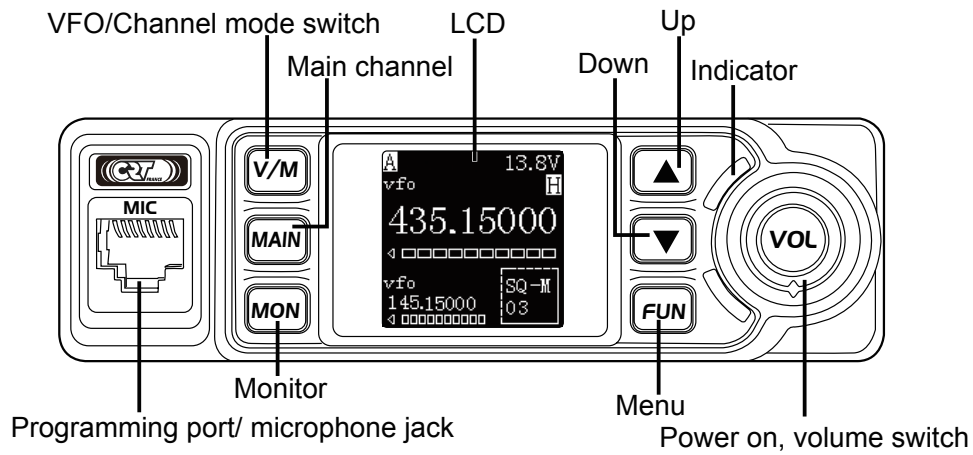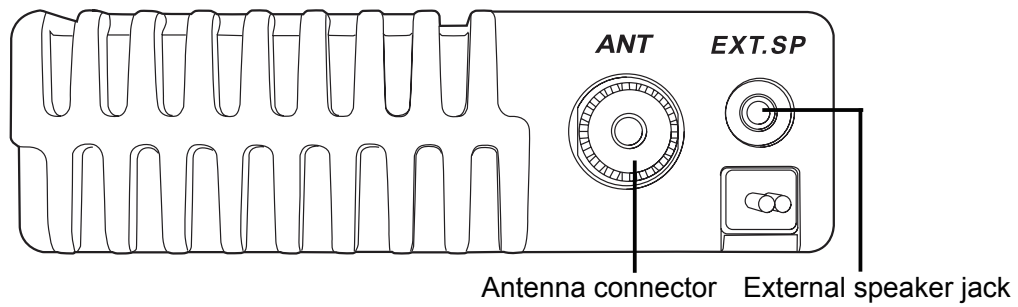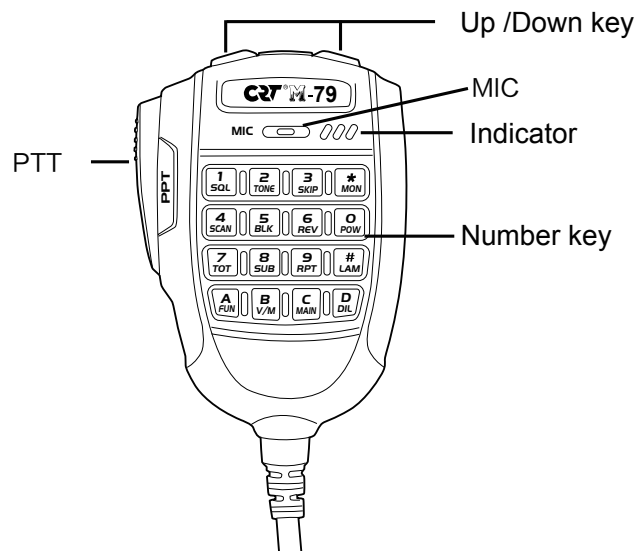
4. BASIC OPERATIONS

4.1 Switching the Power On/Off

1. Turn the Volume knob clockwise to turn on the radio, the radio LCD will display programmed text and emit a beep sound.

2. Power Off:Turn volume knob anti-clockwise until you hear ""click" to turn off the radio

4.2 Adjusting the Volume

Turn volume knob clockwise to increase the "audio level" and anti-clockwise to reduce it.

4.3 Switch between Main Channel and Sub Channel

In standby status, press the microphone [C/MAIN] key or front panel [MAIN] key to switch between main channel and sub channel. The top left corner of LCD will display current main channel.

4.4 Adjust Channel

1. Press microphone [B/V/M] key or front panel [V/M] key to switch the radio to channel mode, press microphone 【UP】/【DN】 key or front panel [▲]/[▼] key to select a channel upward or downward.

2. In channel mode, input three numbers by number key for its direct selection (eg:001 for channel 1).

4.5 Adjusting Frequency (Europe version only)

1. By number key: In VFO mode, you can input wanted frequency by the microphone number key. For example if want 145.125Mhz, just press key 1, 4, 5, 1, 2, 5, if want 145Mhz, just press 1, 4, 5. The input is invalid if the frequency is over range.

2. By step size: In VFO mode, press microphone 【UP】/【DN】 or front panel [▲]/[▼] key can change frequency by step size.
Step size can be programmed by software from 2.5K to 50K.

4.5 Store channel

In standby status, press the microphone [A/FUN] key, the top left corner will display "Func", then press 【UP】KEY, the LCD bottom left corner will display Save to XXX, now press 【UP】/【DN】 key to select a channel number, hold [*/MON] key to store the new frequency and return to standby.

⚠ » XXX reflects for the channel number, if LCD displays "Null" under "Save TO XXX", means that the current channel is empty.

4.6 Channel Delete

1. In channel mode, press microphone [A/FUN] key, then press 【DN】 key, the LCD displays "Delete XXX" and frequency, presss 【UP】/【DN】 key to select the channel to be deleted, then hold 【# LAM】 key for deleting the current channel.

⚠ » "XXX" reflects for the channel number, the LCD displays "Null" after the channel is deleted.

4. SHORTCUT OPERATION

4.7 Receiving

Select a receiving channel or frequency for receiving call, if the RX signal is week, hold front panel [MON] key or microphone [★/MON] key to monitor weak signals.

⚠ » *When the RX icon and field strength flashes, but can not hear the calling, it means current channel receive a matching carrier but unmatching signaling. Refer to CTCSS/ DCS CODE or Optional Signaling setup in Page 6).*

4.8 Transmitting

Hold [PTT] and speak into microphone. the radio start transmit, the screen shows red TX and field strength. Hold the microphone approximately 2.5-5.0cm from your lips and speak into the microphone at your normal voice level: it will help to transfer best audio signal.

4.9 Squelch Off

In standby, press microphone [★/MON] key or front panel [MON] key to turn off squelch, the radio will monitor weak signal.

4.10 Emergency Alarm

In standby, hold [MAIN] key, release it until the LCD displays ALARM, the alarm function turns on. Program emergency alarm rule shall be programmed by PC software.

4.11 Keypad Lockout

In standby, hold [FUN] key or [A/FUN] key , the radio emit Du sound, the LCD displays LOCK. Now release the key, the keypad is locked. To turn off key lock, hold [FUN] key or [A/FUN] key until a "Du Du" tone signal is heard, the LOCK icon disappears, now you may release the key.

4.12 Transmit Tone Pulse Frequency

Hold PTT and [DN] key will transmit selected Pre-programmed tone pulse frequency.

4.13 VFO Scan and Channel Scan

1. VFO scan: In VFO mode, press microphone [A/FUN] key or [4/SCAN] key to start VFO scan. If the radio has program PL1, PH1, ,PL2, PH2, PH2 frequency(in the bottom of channel list), VFO scan will between PL1-PL2 and PL2-PH2.

2. Channel Scan: In channel mode press microphone [A/FUN] key and then press [4/SCAN] key to start channel scan. Channel scan setting shall be programmed by PC software.

4.15 VOX On/Off control

In standby, hold 〔V/M〕key until LCD displays VOX icon, repeater this step or repower on radio to turn off VOX function.
⚠ Note: Before turn on VOX, please set VOX level in 26th menu.

4. SHORTCUT OPERATION

Press microphone [A/FUN] key and then press number key to fast enter following functions, then press 【 UP 】/【 DN 】key to select the value. presss【 PTT 】key or [D/DIL] key for storing.

Function list

No.	Function name	Combination Key
1	Squelch level setting	[A/FUN] + [1/SQL]
2	Optional signaling setting	[A/FUN] + [2/TONE]
3	Scan Skip	[A/FUN] + [3/SKIP]
4	Scan	[A/FUN] + [4/SCAN]
5	Busy channel lockout	[A/FUN] + [5/BLK]
6	Frequency reverse	[A/FUN] + [6/REV]
7	Time out timer	[A/FUN] + [7/TOT]
8	Sub channel on/off switch	[A/FUN] + [8/SUB]
9	Offset direction	[A/FUN] + [9/RPT]
10	Function Menu	[A/FUN] + [*/MON]
11	Power setting.	[A/FUN] + [O/POW]
12	LCD brightless	[A/FUN] + [#/LAM]
13	DTMF Code check	[A/FUN] + [D/DIL]

⚠️ » In DTMF check mode

When check DTMF code, press PTT will send current DTMF code.
To revise DTMF code, press [A/FUN] key and then press [O/POW] key to enter edit mode.
input DTMF code by number keys , then press PTT to transmit the code and store.

5. FUNCTION SETTING

5.1 By Front Panel Key

1. Press [FUN] key to enter main menu.

2. Press [V/M] key or [MAIN] key to choose function.

3. Press [▲] / [▼] key to choose value.

4. Press [FUN] key or [MON] key to store and exit.

⚠ » When setting DCS code, [MON] key is for switch between positive and inverse code.

5.2 By Microphone Key

1. Press [A/FUN] key and then press [*/MON] key to enter menu.

2. Press [B/V/M] key or [C/MAIN] key to choose function.

3. Press【UP】/【DN】key to choose value.

4. Press [D/DIL] key to store and exit

⚠ » When setting DCS code, [1/SQL] key is for switch between Positive and inverse code. [3/SKIP] key is for choose special DCS.

Function list

No.	Function name	Setting value
1	TX CTC/DCS	67Hz~254.1Hz、000N~777I
2	RX CTC/DCS	67Hz~254.1Hz、000N~777I
3	TX/RX CTC/DCS	67Hz~254.1Hz、000N~777I
4	Optional signaling	OFF、DTMF、2Tone、5Tone
5	Squelch mode	SQ、CT/DCS、Tone、C&T、C/T
6	Step size	2.5K~50K
7	Band width	WIDE（25K）、NARROW（12.5K）
8	Reverse	ON、OFF
9	Talk around	ON、OFF
10	Offset frequency	0~70MHz
11	Busy channel Lock	OFF、REPEATER、BUSY
12	Channel name	0~z

5. FUNCTION SETTING

No.	Function name	Value
13	TX OFF	ON、OFF
14	Scrambler	1~11、edit、OFF
15	Compander	ON、OFF
16	NC(Noise reduction)	ON、OFF
17	5Tone	1~100, Press PTT to transmit
18	2Tone	1~32, Press PTT to transmit
19	Sub channel display	FREQ、VOLT、OFF
20	Key beep	ON、OFF
21	Time out timer	1~30Min、OFF
22	DMTF transmit time	50ms~500ms
23	Squelch level	OFF、1~9
24	Scan pause time	5ST、10ST、15ST、2SP
25	LCD brightness	1~5
26	VOX level	OFF, 1−9
27	VOX delay	0.5−5 Second
28	Tone burst frequency	1750Hz、2100Hz、1000Hz、1450Hz
29	Channel display	FREQ、CH、NAME
30	Reset	FACTORY? INITIALIZE?

5.3 Reset Factory Default

If your radio seems to be malfunctioning because of wrong operation or setup, this function will resume all setup and channels to factory default.

1. Press front panel MAIN key to enter main MENU list.

2. Press V/M or MAIN key to chooe 27th function, the LCD display reset options.

3. Press ▲ / ▼ key to chooe "FACTORY? " 。

4. Hold FUN key, until the radio re-power on.

After reset, all channel and fucntion setting will resume default value.

⚠ » If choose "INITIALIZE? ", only function setting value will resume to default setting.

6. SPECIFICATIONS

GENERAL	

Frequency Range	Europe version: TX/RX: 144–146MHz , 430–440MHz
	USA version: TX1: 462.5625-462.7125MHz (5W)
	                    TX2: 462.550-467.725MHz
	                    RX: 136–174MHz , 400–480MHz

Channel Spacing	Europe version: 25K (Wide Band) 12.5K (Narrow band) USA version: 12.5K
Channel Number	500 channels
Operating Voltage	DC 13.8V±15%
Squelch	Carrier/ CTCSS/DCS/5Tone/2Tone/DTMF
Frequency Stability	±2.5ppm
Operating Temperature	–20℃ ~ +60℃
Dimensions(mm)	124x101x36m
Weight	0.45kg (main unit)

RECEIVER		
	Wide band	Narrow band
Sensitivity (12dB Sinad)	≤ 0.25µV	≤ 0.35µV
Adjacent Channel Selectivity	≥ 70dB	≥ 60dB
Audio Response	+1~-3dB(0.3~3KHz)	+1~-3dB(0.3~2.55KHz)
Hum & Noise	≥ 45dB	≥ 40dB
Audio distortion	<3%	
Audio power output	>2W@10%	

TRANSMITTER		
	Wide band	Narrow band
Power - EU version	UHF>18W	VHF>20W
Power - USA version	—	462.5625-462.7125MHz (5W) 462.550-467.725MHz (18W)
Modulation	16KΦF3E	11KΦF3E
Adjacent Channel Powe	≥ 70dB	≥ 60dB
Hum & Noise	≥ 40dB	≥ 36dB
Spurious Emission	≥ 60dB	≥ 60dB
Audio Response	+1~–3dB(0.3~3KHz)	+1~–3dB(0.3~2.55KHz)
Audio Distortion	≤ 5%	

52 groups CTCSS Tone Frequency(Hz)

No.	Freq.(Hz)	No.	Freq.(Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)	No.	Freq. (Hz)
1	62.5	12	94.8	23	136.5	34	177.3	45	218.1
2	67.0	13	97.4	24	141.3	35	179.9	46	225.7
3	69.3	14	100.0	25	146.2	36	183.5	47	229.1
4	71.9	15	103.5	26	151.4	37	196.2	48	233.6
5	74.4	16	107.2	27	156.7	38	189.9	49	241.8
6	77.0	17	110.9	28	159.8	39	192.8	50	250.3
7	79.7	18	114.8	29	162.2	40	196.6	51	254.1
8	82.5	19	118.8	30	165.5	41	199.5	52	Self-define
9	85.4	20	123.0	31	167.9	42	203.5		
10	88.5	21	127.3	32	171.3	43	206.5		
11	91.5	22	131.8	33	173.8	44	210.7		

1024 groups DCS Code

Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)	Code No.	DSC (Octal)
1.	000	2.	001	3.	002	4.	003	5.	004	6.	005	7.	006	8.	007
9.	010	10.	011	11.	012	12.	013	13.	014	14.	015	15.	016	16.	017
17.	020	18.	021	19.	022	20.	023	21.	024	22.	025	23.	026	24.	027
25.	030	26.	031	27.	032	28.	033	29.	034	30.	035	31.	036	32.	037
33.	040	34.	041	35.	042	36.	043	37.	044	38.	045	39.	046	40.	047
41.	050	42.	051	43.	052	44.	053	45.	054	46.	055	47.	056	48.	057
49.	060	50.	061	51.	062	52.	063	53.	064	54.	065	55.	066	56.	067
57.	070	58.	071	59.	072	60.	073	61.	074	62.	075	63.	076	64.	077
65.	100	66.	101	67.	102	68.	103	69.	104	70.	105	71.	106	72.	107
73.	110	74.	111	75.	112	76.	113	77.	114	78.	115	79.	116	80.	117
81.	120	82.	121	83.	122	84.	123	85.	124	86.	125	87.	126	88.	127
89.	130	90.	131	91.	132	92.	133	93.	134	94.	135	95.	136	96.	137
97.	140	98.	141	99.	142	100.	143	101.	144	102.	145	103.	146	104.	147
105.	150	106.	151	107.	152	108.	153	109.	154	110.	155	111.	156	112.	157
113.	160	114.	161	115.	162	116.	163	117.	164	118.	165	119.	166	120.	167
121.	170	122.	171	123.	172	124.	173	125.	174	126.	175	127.	176	128.	177
129.	200	130.	201	131.	202	132.	203	133.	204	134.	205	135.	206	136.	207
137.	210	138.	211	139.	212	140.	213	141.	214	142.	215	143.	216	144.	217
145.	220	146.	221	147.	222	148.	223	149.	224	150.	225	151.	226	152.	227
153.	230	154.	231	155.	232	156.	233	157.	234	158.	235	159.	236	160.	237
161.	240	162.	241	163.	242	164.	243	165.	244	166.	245	167.	246	168.	247
169.	250	170.	251	171.	252	172.	253	173.	254	174.	255	175.	256	176.	257
177.	260	178.	261	179.	262	180.	263	181.	264	182.	265	183.	266	184.	267
185.	270	186.	271	187.	272	188.	273	189.	274	190.	275	191.	276	192.	277
193.	300	194.	301	195.	302	196.	303	197.	304	198.	305	199.	306	200.	307
201.	310	202.	311	203.	312	204.	313	205.	314	206.	315	207.	316	208.	317
209.	320	210.	321	211.	322	212.	323	213.	324	214.	325	215.	326	216.	327
217.	330	218.	331	219.	332	220.	333	221.	334	222.	335	223.	336	224.	337
225.	340	226.	341	227.	342	228.	343	229.	344	230.	345	231.	346	232.	347
233.	350	234.	351	235.	352	236.	353	237.	354	238.	355	239.	356	240.	357
241.	360	242.	361	243.	362	244.	363	245.	364	246.	365	247.	366	248.	367
249.	370	250.	371	251.	372	252.	373	253.	374	254.	375	255.	376	256.	377
257.	400	258.	401	259.	402	260.	403	261.	404	262.	405	263.	406	264.	407
265.	410	266.	411	267.	412	268.	413	269.	414	270.	415	271.	416	272.	417
273.	420	274.	421	275.	422	276.	423	277.	424	278.	425	279.	426	280.	427
281.	430	282.	431	283.	432	284.	433	285.	434	286.	435	287.	436	288.	437
289.	440	290.	441	291.	442	292.	443	293.	444	294.	445	295.	446	296.	447
297.	450	298.	451	299.	452	300.	453	301.	454	302.	455	303.	456	304.	457
305.	460	306.	461	307.	462	308.	463	309.	464	310.	465	311.	466	312.	467

313.	470	*314.*	471	*315.*	472	*316.*	473	*317.*	474	*318.*	475	*319.*	476	*320.*	477
321.	500	*322.*	501	*323.*	502	*324.*	503	*325.*	504	*326.*	505	*327.*	506	*328.*	507
329.	510	*330.*	511	*331.*	512	*332.*	513	*333.*	514	*334.*	515	*335.*	516	*336.*	517
337.	520	*338.*	521	*339.*	522	*340.*	523	*341.*	524	*342.*	525	*343.*	526	*344.*	527
345.	530	*346.*	531	*347.*	532	*348.*	533	*349.*	534	*350.*	535	*351.*	536	*352.*	537
353.	540	*354.*	541	*355.*	542	*356.*	543	*357.*	544	*358.*	545	*359.*	546	*360.*	547
361.	550	*362.*	551	*363.*	552	*364.*	553	*365.*	554	*366.*	555	*367.*	556	*368.*	557
369.	560	*370.*	561	*371.*	562	*372.*	563	*373.*	564	*374.*	565	*375.*	566	*376.*	567
377.	570	*378.*	571	*379.*	572	*380.*	573	*381.*	574	*382.*	575	*383.*	576	*384.*	577
385.	600	*386.*	601	*387.*	602	*388.*	603	*389.*	604	*390.*	605	*391.*	606	*392.*	607
393.	610	*394.*	611	*395.*	612	*396.*	613	*397.*	614	*398.*	615	*399.*	616	*400.*	617
401.	620	*402.*	621	*403.*	622	*404.*	623	*405.*	624	*406.*	625	*407.*	626	*408.*	627
409.	630	*410.*	631	*411.*	632	*412.*	633	*413.*	634	*414.*	635	*415.*	636	*416.*	637
417.	640	*418.*	641	*419.*	642	*420.*	643	*421.*	644	*422.*	645	*423.*	646	*424.*	647
425.	650	*426.*	651	*427.*	652	*428.*	653	*429.*	654	*430.*	655	*431.*	656	*432.*	657
433.	660	*434.*	661	*435.*	662	*436.*	663	*437.*	664	*438.*	665	*439.*	666	*440.*	667
441.	670	*442.*	671	*443.*	672	*444.*	673	*445.*	674	*446.*	675	*447.*	676	*448.*	677
449.	700	*450.*	701	*451.*	702	*452.*	703	*453.*	704	*454.*	705	*455.*	706	*456.*	707
457.	710	*458.*	711	*459.*	712	*460.*	713	*461.*	714	*462.*	715	*463.*	716	*464.*	717
465.	720	*466.*	721	*467.*	722	*468.*	723	*469.*	724	*470.*	725	*471.*	726	*472.*	727
473.	730	*474.*	731	*475.*	732	*476.*	733	*477.*	734	*478.*	735	*479.*	736	*480.*	737
481.	740	*482.*	741	*483.*	742	*484.*	743	*485.*	744	*486.*	745	*487.*	746	*488.*	747
489.	750	*490.*	751	*491.*	752	*492.*	753	*493.*	754	*494.*	755	*495.*	756	*496.*	757
497.	760	*498.*	761	*499.*	762	*500.*	763	*501.*	764	*502.*	765	*503.*	766	*504.*	767
505.	770	*506.*	771	*507.*	772	*508.*	773	*509.*	774	*510.*	775	*511.*	776	*512.*	777

CRT

DECLARATION OF CONFORMITY N° 200238

$C \epsilon$

We hereby declare under our responsability that the product :

Brand : CRT
Model ELECTRO UV Ham Radio Mobile radio
144-146 MHz/430-440 MHz

Satisfies all the technical regulations applicable to the product within the scope of
Directive : RED 2014/53/EU and following norms

EN 62368-1 :2014+A11 :2017
EN 50665 :2017
EN 62311 :2020
EN 55035 :2017
EN 55032 :2015
ETSI EN 301 489-15 V2.2.1 (2019-04)
ETSI EN 301 489-1 V2.2.3 (2019-11)
Draft ETSI EN 303 345-3 V1.1.0 (2019-11)
ETSI EN 303 345-1 V1.1.1. (2019-06)
ETSI EN 301 783 V2.1.1 (2016-01)

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Web site : www.crtfrance.com

M. CELESTRANO F.

PRESIDENT

LE 06/11/2020

RoHS
compliant

ISO9001

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