



CRT® XENON

MOBILE CB TRANSCEIVER

40 CX AM - FM CITIZEN BAND
EUROPEAN MULTI-NORMS



OWNER'S MANUAL



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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 area to be recycling



DC using



Keep dry



Shield symbol



CE conformity symbol



Warning



STORAGE , TRANSPORT, USING

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

Transport :- 30/85% (°humidity)

Operating temperature -30 à + 50°

Using cycle TX 10%/RX 90%



Warned before use

This transceiver corresponds to the requirements of European directives RED 2014/53/EU documents n° EN 301 489-1-13 / EN 62 311 / EN 300 433 / EN 60 950.

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 2A 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.



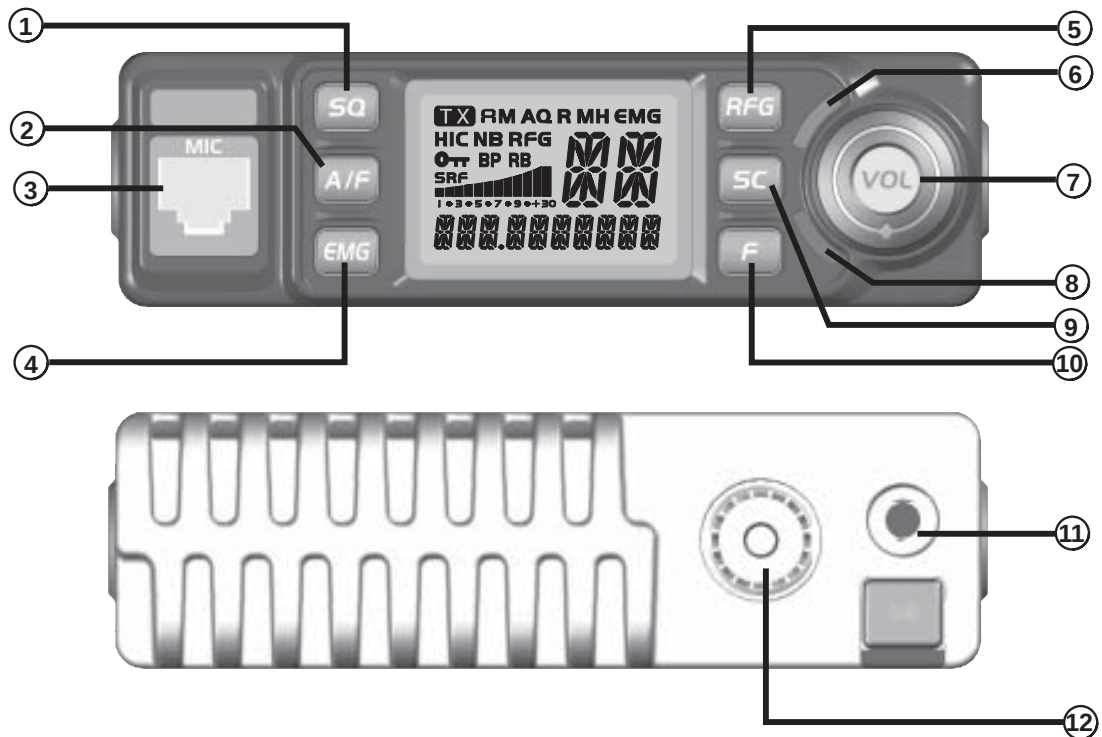
Keep out from children.

Attention :

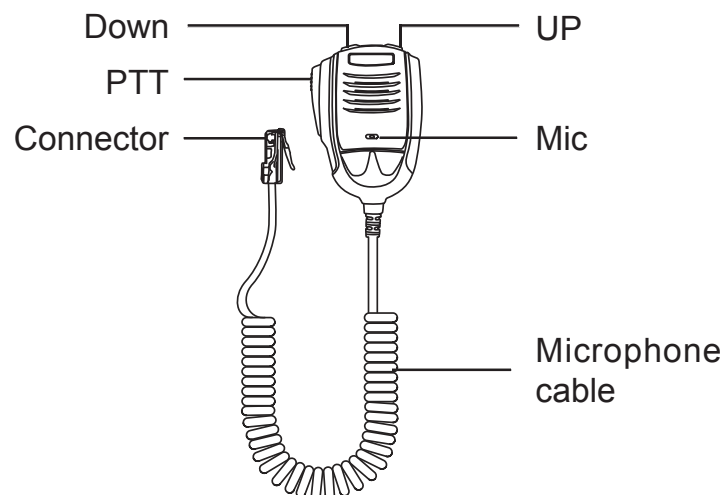
- Before using your transceiver please connect an antenna on the connector PL on back side then check the SWR before emitting. A too important SWR can entail the destruction of the transistors of power which are not flatware by the guarantee



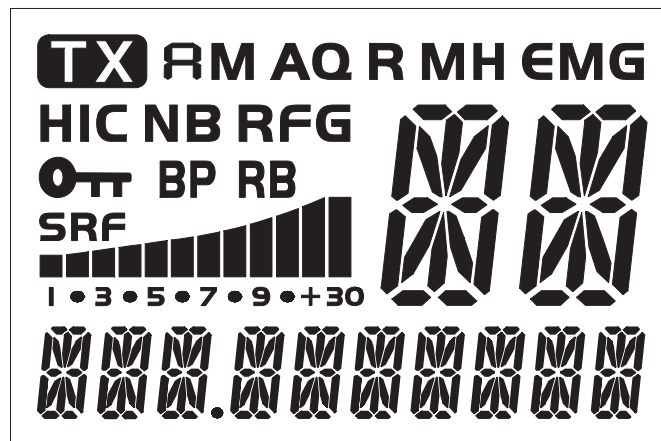
■ KNOW ABOUT THIS RADIO



1	Squelch control SQ ASQ switch key
2	Mode/Keypad lock
3	Microphone RJ45 Connection
4	Emergency channel
5	RF Gain control/RF GAIN level setting
6	TX indicator
7	Power On/Off Volume control
8	RX indicator
9	Scan
10	Functions
11	External speaker Jack 3.5mm
12	Antenna connector UHF SO239



■ LCD



TX

Indicates transmission

AM

AM mode selected

FM

FM mode selected

AQ

Automatic Squelch Control activated

EMG

The emergency preset channel activated (9 or 19 by default)

HIC

HI-CUT filter activated

NB

NB filter activated

RFG

RF GAIN function activated

Key

Indicates that front panel keys are locked except PTT pedal

BP

Beep function activated

RB

ROGER BEEP function activated

SRF

Bargraph shows the reception S and emission RF level

Frequency display

Indicates selected channel

Frequency display

Indicates frequency, selected band, menus and values of menu



■ 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 microphone [UP] or [DN] to change working channel.
2. Long press microphone [UP] or [DN] can fast change working channel.

❖

Squelch level Control (short press)

1. Short press , until LCD displays *SQ.SET 00,00* stands for SQ level, the bigger value stands for high squelch level.
2. Short press microphone [UP] or [DN] to change SQ level.
3. Long press microphone [UP] or [DN] can fast change SQ level.
4. Short press  or wait for 10 seconds to store and exit.

Note: The higher SQ level selected the stronger signal required to open speaker and hear the calling.

ASQ Control (long press)

1. Long press  key, until LCD displays " **AQ** ", the ASQ function turned on.
2. Short press , until LCD displays *ASQ.SET 06,06* stands for ASQ level, the bigger value stands for high squelch level.
3. Short press microphone [UP] or [DN] to change ASQ level.
4. Long press microphone [UP] or [DN] can fast change ASQ level.
5. Short press  or wait for 10 seconds to store and exit.
6. Long press  key again to turn on SQL function.

Note: The higher ASQ level selected the stronger signal required to open speaker and hear the calling.



Mode Control (short press)

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

Keypad Lock (long press)

1. Long press  key for over 2 seconds to lock the keys, LCD displays .
2. Long press  key for over 2 seconds again to unlock the keys,  disappears from LCD.

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



Emergency Channel (short press)

1. First press  key to choose the first programmed emergency channel, LCD displays **EMG**.
2. Second press  key to choose the second programmed emergency channel.
3. Third press  key to return to last normal channel, **EMG** disappears from LCD.

Note: The default emergency channel are channel 9 and channel 19.

See menus Emergency Channel Set page XX for the emergency channel configuration.



RF Gain Control (short press)

1. Short press  key, LCD displays **RFG**, the RF Gain function turned on.
2. Short press  key again to turned off the RF Gain function, **RFG** disappears from LCD.

Note: When the RF Gain function is off the radio will automatically check whether the AUTO RFG function is on. If the AUTO RFG function is on the radio will turn on the automatic RFG function.

RF Gain Setting (long press)

1. When the RF Gain function is on, long press  key enter the RF Gain function setting, LCD display **RF.GAIN 40**, 40 stands for current RF Gain level.
2. Short press microphone [**UP**] or [**DN**] to change RF Gain level.
3. Long press microphone [**UP**] or [**DN**] can fast change RF Gain level.
4. Short press  or wait for 10 seconds to store and exit.

Note: If RF Gain level is 6 means the attenuation is 6dBm.



Scan Function (short press)

1. Short press **[SC]** key to start scan function, **SCAN** flashes in the LCD.
2. Short press microphone **[UP]** or **[DN]** to change scan direction during scan.
3. Short press **[SC]** or **[PTT]** key to exit scan function.



Functions (long press)

1. Long press **[F]** key to enter in menu and set different function.

Norms control

1. Hold **[F]** to power on radio, until LCD displays the norms.
2. Short press microphone **[UP]** or **[DN]** to choose wanted norms.
3. Power off and power on again.

MODE	FM	AM	--
EU	40 Ch (4W)	40 Ch (4W)	BE, BG, CH, CY, DK, EE, ES, FI, FR, GB, GR, IE, IS, IT, LT, LU, LV, NO, PT, RO, SE
PL	-5 KHz 40 Ch (4W)	-5 KHz 40 Ch (4W)	PL
DE	80 Ch (4W)	40 Ch (4W)	DE
CE	40 Ch (4W)	-	AT, CZ, HU, MT, SI, SK
U	CEPT 40 Ch + ENG 40 Ch (4W)	-	GB
IN	27 Ch (4W)	27 Ch (4W)	IN
I2	36 Ch (4W)	36 Ch (4W)	IT

❖ Install external speaker

Choose a 8 ohms external speaker with 3.5mm mono connector jack



✦ Band Name Setting

1. Choose a band to be modified.
2. Long press **[F]** key to enter mune list.
3. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose NO.17 function memu, LCD displays *INDNAME EU*, EU stands for current band name.
4. Short press **[F]** key,the first digit blinks on LCD.
5. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose the character of the first digit.
6. Short press **[F]** key to validate the first digit. The second digit blinks on LCD.
7. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose the character of the second digit.
8. Short press **[F]** key to validate the second digit and exit setting.
9. Long press **[F]** key or wait 20 seconds to store exit MENU.

✦ Emergency Channel Setting

1. Long press **[F]** key to enter mune list.
2. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose NO.18 function memu or NO.19 function memu,LCD displays *EMG.1 EU:09* or *EMG.2 EU:19*.
3. Short press **[F]** key,the band name blinks on LCD.
4. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose the frequency band.

Note: This frequency band selection is valid only when the radio work in HF model or HAM model.

5. Short press **[F]** key to validate the frequency band,and the channel blinks on LCD.
6. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose the channel.
7. Short press **[F]** key to validate the channel,and the mode blinks on LCD.
8. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose the mdoe AM or FM.
9. Short press **[F]** key to validate the mode and exit setting.

✦ Resume Factory Default

1. Long press **[F]** key to enter mune list.
2. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose NO.20 function memu,LCD displays *RESET ALL*.
3. Short press **[F]** key to enter menu selection, *ALL* falshes in the LCD.
4. Long press **[F]** key until LCD only displays "RESET ALL".



✦ Menu Operations

1. Long press **[F]** key to enter menu list.
2. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose menu to be set.
3. Short press **[F]** key to enter function setting parameter of the chosen function. the parameter blinks on LCD.
4. Short press microphone **[UP]** or **[DN]** or **[RFG]** or **[SC]** to choose wanted setting.
5. Short press **[F]** key to validate the mode and exit setting.
6. Long press **[F]** key or wait 20 seconds to store exit MENU.

NO.	LCD display	Function detail	Setting details
1	KEY.BP ON	Beep sound	ON: Turn on beep sound OFF: Turn off beep sound Default: ON
2	MIC.GAIN 06	MIC GAIN control	Level 1~10 Default: 6
3	RF.POW LOW	RF power setting	LOW: low power MID: middle power HI: high power Default: LOW Note: This function is valid only when the radio work in HF model or HAM model.
4	SQ.LSET 08	Squelch level control	OFF, 1~34 Default: 8
5	ASQ.SET 06	Auto squelch level control	Level 1~9 Default: 6
6	SCA.TYPE SQ	Scan type setting	SQ: squelch scan TI: time scan Default: SQ
7	HI.CUT OFF	HI-CUT setting	OFF: turn off HI-CUT function ON: turn on HI-CUT function Default: OFF
8	TAL.BACK 0F	Talkback level control	0F, 1~9 Default: 0F
9	NBLANK OFF	Noise blanker	OFF: turn off NBLANK function ON: turn on NBLANK function Default: OFF

NO.	LCD display	Function detail	Setting details
10	RF.AUTO ON	Auto RF gain setting	OFF: turn off AUTO RF GAIN function ON: turn on AUTO RF GAIN function Default: ON
11	RF.GAIN 48	RF gain level control	Level 3、6、9~48 Default: 3
12	RGB.SP OFF	RB sound setting	OFF, 1-5 OFF: Turn off RB sound function. Default: OFF
13	COLOR RE	Backlight color setting	RE: Red GR: Green BL: Blue CY: Cyan YE: Yellow PU: Purple WH: White Default: RE
14	BRIGHT 06	Backlight brightness	Level 1~6 Default: 6
15	TOT.SET 03	Time out timer	OFF, 1~10Min Default: 3



■ SPECIFICATION

GENERAL		
Modulation Mode		AM/FM
Frequency Range		26.565-27.405MHz
Frequency Tolerance		±5.0ppm
Input Voltage		12 V
Dimensions(in mm)		124x101x36mm
Weight		428g
Operating Temperature Range		-20℃ to +50℃
Current Drain	Transmit	3A MAX
	Receive	Squelched 0.3A
	VOL Max	0.7A
Antenna Connector		UHF,SO-239

TRANSMITTER	
Power Output	4 Watts FM/AM
Transmission interference	inferior to 4nW
Frequency Response	300-3000Hz
Modulated signal distortion	inferior to 5%
Output Impedance	50 ohms

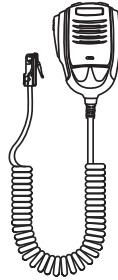
RECEIVER	
Sensitivity	Less than 1uV for 10dB(S+N)/N
Image Rejection	70dB
Adjacent Channel Rejection	60dB
IF Frequencies	1st 10.695MHz
	2nd 455KHz
Automatic Gain Control(AGC)	Less than 10dB change in audio
	Output for inputs from 10 to 50000uV
Squelch	less than 1uV
Audio Output Power	1Watts at 8 less than 10% distortion
Frequency Response	300-3000Hz

Supplied Accessories

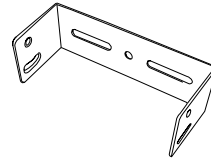
- CB Radio+cigar plug



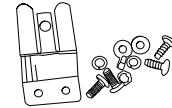
- Microphone



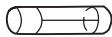
- Mobile installing bracket



- Hardware kits for radio
- Hardware kits for bracket
- Fixed microphone hanging buckle



- fuse 5 amperes





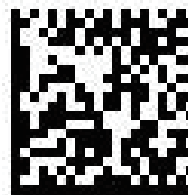
FREQUENCIES TABLE								
and ID	EU	CE	UK	PL	IN	I2	DE	
COUNTRY	EUROPE	CEPT	UK	POLAND	INDIA	ITALY	GERMANY	
POWER	AM : 4W	/	/	AM : 4W	AM : 4W	AM : 4W	AM : 4W	
	FM : 4W	FM : 4W	FM : 4W	FM : 4W	FM : 4W	FM : 4W	FM : 4W	FM : 4W
CHANNELS	1-40	1-40	1-40	1-40	1-40	1-36	1-40	41-80
CH 1	26.965	26.965	27.6013	26.960	26.965	26.965	26.965	26.565
CH 2	26.975	26.975	27.6113	26.970	26.975	26.975	26.975	26.575
CH 3	26.985	26.985	27.6213	26.980	26.985	26.985	26.985	26.585
CH 4	27.005	27.005	27.6313	27.000	27.005	27.005	27.005	26.595
CH 5	27.015	27.015	27.6413	27.010	27.015	27.015	27.015	26.605
CH 6	27.025	27.025	27.6513	27.020	27.025	27.025	27.025	26.615
CH 7	27.035	27.035	27.6613	27.030	27.035	27.035	27.035	26.625
CH 8	27.035	27.035	27.6713	27.050	27.035	27.055	27.035	26.635
CH 9	27.065	27.065	27.6813	27.060	27.065	27.065	27.065	26.645
CH 10	27.075	27.075	27.6913	27.070	27.075	27.075	27.075	26.655
CH 11	27.085	27.085	27.7013	27.080	27.085	27.085	27.085	26.665
CH 12	27.105	27.105	27.7113	27.100	27.105	27.105	27.105	26.675
CH 13	27.115	27.115	27.7213	27.110	27.115	27.115	27.115	26.685
CH 14	27.125	27.125	27.7313	27.120	27.125	27.125	27.125	26.695
CH 15	27.135	27.135	27.7413	27.130	27.135	27.135	27.135	26.705
CH 16	27.155	27.155	27.7513	27.150	27.155	27.155	27.155	26.715
CH 17	27.165	27.165	27.7613	27.160	27.165	27.165	27.165	26.725
CH 18	27.175	27.175	27.7713	27.170	27.175	27.175	27.175	26.735
CH 19	27.185	27.185	27.7813	27.180	27.185	27.185	27.185	26.745
CH 20	27.205	27.205	27.7913	27.200	27.205	27.205	27.205	26.755
CH 21	27.215	27.215	27.8013	27.210	27.215	27.215	27.215	26.765
CH 22	27.225	27.225	27.8113	27.220	27.225	27.225	27.225	26.775
CH 23	27.255	27.255	27.8213	27.250	27.255	27.255	27.255	26.785
CH 24	27.235	27.235	27.8313	27.230	27.235	27.245	27.235	26.795
CH 25	27.245	27.245	27.8413	27.240	27.245	27.265	27.245	26.805
CH 26	27.265	27.265	27.8513	27.260	27.265	26.875	27.265	26.815
CH 27	27.275	27.275	27.8613	27.270	27.275	26.885	27.275	26.825
CH 28	27.285	27.285	27.8713	27.280		26.895	27.285	26.835
CH 29	27.295	27.295	27.8813	27.290		26.905	27.295	26.845
CH 30	27.305	27.305	27.8913	27.300		26.915	27.305	26.855
CH 31	27.315	27.315	27.9013	27.310		26.925	27.315	26.865
CH 32	27.325	27.325	27.9113	27.320		26.935	27.325	26.875
CH 33	27.335	27.335	27.9213	27.330		26.945	27.335	26.885
CH 34	27.345	27.345	27.9313	27.340		26.955	27.345	26.895
CH 35	27.355	27.355	27.9413	27.350		26.855	27.355	26.905
CH 36	27.365	27.365	27.9513	27.360		26.865	27.365	26.915
CH 37	27.375	27.375	27.9613	27.370			27.375	26.925
CH 38	27.385	27.385	27.9713	27.380			27.385	26.935
CH 39	27.395	27.395	27.9813	27.390			27.395	26.945
CH 40	27.405	27.405	27.9913	27.400			27.405	26.955

RESTRICTIONS


PAYS	CB	RESTRICTIONS	REGLAGE		
GERMANY	YES	80 ch – 4W FM – free use	EC	D	EU
		40 ch – 4 W AM - free use			
		40 ch – 4 W FM – free use			
UK	YES	Cept 40 ch – 4 W FM + ENG 40 ch – 4 W FM – individual license required 40ch-AW AM-FM	EC UK		EU
AUSTRIA	YES	40 ch – 4 W FM AM : Not authorized	EC		
BELGIUM	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
BULGARIA	YES	40 ch – 4 W FM - free use	EC		
CYPRUS	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
CROATIA	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
DANEMARK	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
SPAIN	YES	40 ch – 4 W FM – individual license required	E	EC	EU
		40 ch – 4 W AM – individual license required			
		12 W pep BLU/SSB			
ESTONIA	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
FINLAND	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
FRANCE	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM – free use			
GREECE	YES	40 ch – 4 W FM - individual license required	EU	E	EC
		40 ch – 4 W AM - individual license required			
HUNGARY	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
IRELAND	YES	40 ch – 4 W FM – free use AM : Not authorized	EC		
ISLAND	YES	40 ch – 4 W FM - free use	EC	EU	
		40 ch – 4 W AM - free use			
ITALY	YES	40 ch – 4 W FM – general autorisation required	E	EC	EU
		40 ch – 4 W AM - general autorisation required			
		12 W pep BLU/SSB			
LATVIA	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
LITHUANIA	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
LUXEMBOURG	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		



MALTA	YES	40 ch – 4 W FM - individual license required AM : Not authorized	EC		
NORWAY	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
NETHERLAND	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
POLAND	YES	40 ch – 4 W FM - free use		EC	
		40 ch – 4 W AM/FM - free use	PL		
		12 W pep BLU/SSB			
PORTUGAL	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
CZECH	YES	80 ch – 4 W FM - free use AM : Not authorized	EC		
ROMANIA	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
SLOVAKIA	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
SLOVENIA	YES	40 ch – 4 W FM - free use AM : Not authorized	EC		
SWEDEN	YES	40 ch – 4 W FM - free use	EU	EC	
		40 ch – 4 W AM - free use			
SWITZERLAND	YES	40 ch – 4 W FM – free use	EU	EC	
		40 ch – 4 W AM - free use			
LIECHTENSTEIN	YES	40 ch – 4 W FM - individual license required AM : individual license required	EC		



A1.180525



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