

Crank Emergency DAB Radio TX-414

with Bluetooth, Flashlight and power bank function

Before using the appliance for the first time, please read the instructions for use and safety information carefully.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised or instructed on the use of this device by a person responsible for their safety. Children should be supervised to ensure they do not play with this device.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

Enjoy your product * Share your experience and opinion on one of the well-known internet portals.

Specifications are subject to change without notice - please be sure to use the latest manual available on the manufacturer's website.

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Hints

● Only use the product for purposes due to its intended function ● Do not damage the product. Following cases may damage the product: Incorrect voltage, accidents (including liquid or moisture), misuse or abuse of the product, faulty or improper installation, mains supply problems including power spikes or lightning damage, infestation by insects, tampering or modification of the product by persons other than authorized service personnel, exposure to abnormally corrosive materials, insertion of foreign objects into the unit, used with accessories not preapproved. ● Refer to and heed all warnings and precautions in the user manual.

Precautions

Read all safety instruction warnings carefully before using this product. Improper use of this product may result in damage to this or attached products. To ensure the products work well, never use this in the following conditions:

- Moist or underwater conditions;
- Conditions near heater or high-temperature service;
- Conditions with direct and strong sunshine;
- Conditions with adapter damage;
- Never dismantle the product without due permission, otherwise it may nullify the warranty clause.

Warnings

● Do not attempt to disassemble the device, it may result in short-circuit or even damage. ● Do not drop or shake the device, it may break internal circuit boards or mechanics. ● Keep the device away from little children.

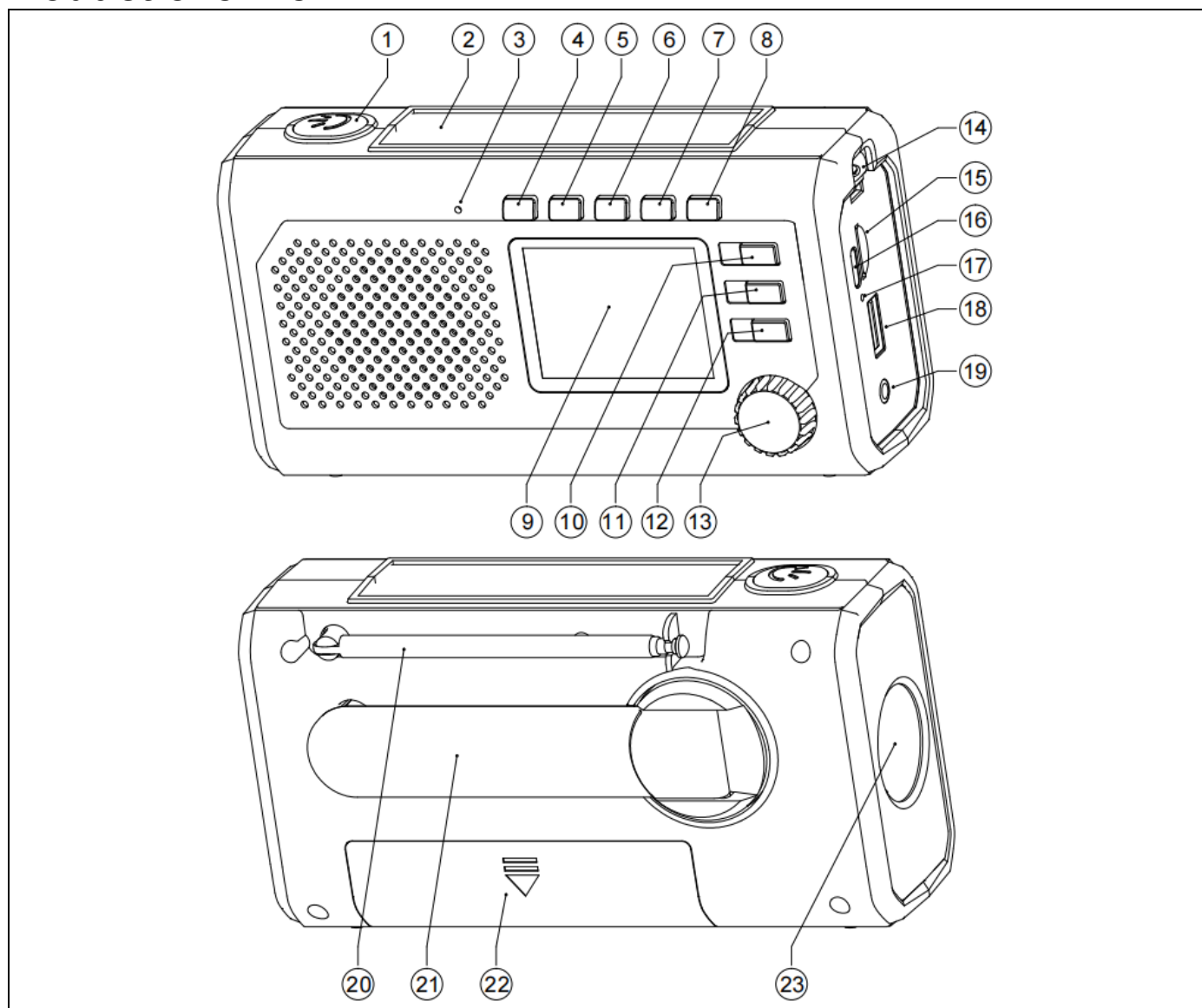
Safety instructions

- Never touch the product with wet or damp hands.
- The product can only be operated with the voltage described on the device.
- Do not place the product on an unstable surface. The unit could be damaged or people could be injured. Any attachments should be made only in accordance with the manufacturer's instructions or obtained from the manufacturer.
- Avoid placing excessive stress on the cable, especially at sockets and plugs.
- Do not insert any objects into the openings of the unit, as current flows in some places and contact may cause fire or electric shock.
- Do not use liquid cleaners or cleaning sprays. The product may only be cleaned with a damp cloth.
- Do not connect any additional devices that are not recommended by the manufacturer.
- Use only suitable 18650 batteries (ensure the correct type and voltage).
- Do not open, crush, puncture, or damage the battery—risk of fire or explosion.
- Do not short-circuit the battery (e.g., with metal objects).
- Do not use the device if the battery is swollen, leaking, or damaged.
- Observe polarity when replacing the battery.
- Dispose of the battery only in accordance with local regulations for batteries.
- Do not use the product in direct sunlight or places where the temperature may exceed 60°C for a long time.

Features

- DAB+ reception 174-240MHz
- Solar module for charging
- Hand Crank Generator
- 2" (5.2cm) TFT Color display
- Power bank function via USB-A
- Playback: DAB+, FM, Bluetooth & MicroSD (max. 128GB)
- Flashlight with SOS function
- Bluetooth V5.3
- Telescopic antenna

Product overview



1	LED button	2	Solar panel
3	Solar power generation indicator light	4	Previous button/⏮
5	Play/Pause button	6	Next button/⏭
7	PRESET button	8	SOS button
9	Display	10	POWER button
11	MODE button	12	INFO/MENU button
13	VOL/TUNE/SELECT knob	14	Lanyard hole
15	MicroSD card slot	16	USB-C charging (input)
17	Charging/discharging indicator light	18	USB-A charging (output)
19	Headphone jack	20	Antenna
21	Cranked handle	22	Battery compartment
23	Flashlight / LED		

Charging

Before using the device for the first time, fully charge it using a USB power adapter and the included USB-C cable. The LED will flash green until the device is fully charged. After that, it will remain solid green. When you disconnect the USB-C cable, the LED will glow red for about 30 seconds and then turn off.

Turn on/off

- ① By pressing and holding the POWER button, you can turn the radio on and off.
- ② After the first switch-on, the device automatically switches to DAB radio search mode.
- ③ Press the POWER button to enter standby mode. Pressing the button again will recall the interface of the previous operation.

Button Instruction

POWER button	Long press this button to turn on/off the device, short press to enter standby mode.
MODE button	After powering on, short press this key to switch between different modes.
INFO/MENU button	After powering on, short press this button in DAB/FM mode to view radio station information, long press this button to enter menu settings.
Previous button	When playing music in BT or Card mode, short press this key to select the previous song.
Play/Pause button	When playing music in BT or Card mode, briefly press the play/pause button to pause the music.
Next button	When playing music in BT or Card mode, short press this key to select the next song.
PRESET key	In FM mode, short press this key to enter the radio station list. In DAB mode, short press to enter your set presets. Long press to save the current station as preset.
LED light button	Press and hold the LED button to turn on the flashlight. Press again to switch to SOS morse code. Press and hold the LED button again to turn it off.
SOS button	Press and hold the SOS button to activate SOS mode. In this mode, the speaker emits an alarm sound and the LED flashes simultaneously. To deactivate SOS mode, press the SOS button once briefly.

TUNE/SET/VOL knob	When playing music, rotate this button to adjust the volume, and short press this button to play and pause; Rotate this key on the menu interface to flip the menu and press it to select OK.
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Modes

To change the mode press “Mode” button on the device.

DAB mode

Press the MODE button on the radio. The selectable modes are: DAB/ FM/ Bluetooth /MicroSD will be displayed on the screen. Press ◀▶ to select or turn the VOL/TUNE/SELECT knob on the radio to select and press the VOL/TUNE/SELECT button to confirm.

Adjusting the Volume

Turn the VOL/TUNE/SELECT knob on the radio to adjust the volume. The volume range is: 0 (min) - 16 (max).

DAB Mode (40 Preset Stations)

Note: When you first start the radio in DAB mode, it automatically searches for DAB stations.

Press the MODE button on the radio. The display will show DAB. Press the VOL/TUNE/SELECT button to confirm and the DAB mode selection is successful.

① Unfold the antenna and rotate it slowly to pick up a radio signal.

② Search for a radio station

③ In DAB mode

a. Press and hold the VOL/TUNE/SELECT knob. The screen will display [scanning stations] to indicate that stations are being automatically searched.

b. Press ◀▶ to call up the station list. Press ◀▶ to select a station or turn the VOL/TUNE/SELECT knob on the radio to select a station and press VOL/TUNE/SELECT to confirm the station.

FM Mode (40 Preset Stations)

Press the MODE button on the radio. The display will show FM. Press the VOL/TUNE/SELECT button to confirm and the FM mode selection is successful.

Press and hold the VOL/TUNE/SELECT knob. The frequency on the screen will change and indicate that a search for radio stations is in progress.

When the station search is complete, the searched station is automatically stored in the station memory. Press the 【PRESET】 button briefly to call up the 【Preset Recall】 list. Press ◀▶ to select a station or turn the VOL/TUNE/SELECT knob on the radio to select it and press the VOL/TUNE/SELECT button to confirm the station.

Press the **⏮/⏭** button briefly to switch the frequency up/down by 0.05 MHz each time.

Press and hold the **⏮ / ⏭** button to automatically search for the previous/next station.

Saving Favorite Stations - Preset

In DAB or FM operation, after a successful station search, press and hold the **【PRESET】** button to call up the preset list for preset recall. Turn the VOL/TUNE/SELECT knob to select the number position of the desired preset list. Press VOL/TUNE/SELECT to confirm the storage. **【Preset ## saved】** will be displayed on the screen (Preset ## saved), indicating a successful preset.

Playing a Favorite Station - Preset

Press the **【PRESET】** button briefly on the radio to call up the preset recall list. Turn the VOLUME/TUNE/Select knob to select the radio station and press the VOL/TUNE/SELECT button to confirm playback.

INFO/MENU Function

In different modes, you can display different information on the screen by briefly pressing the **【INFO/MENU】** button.

- ① Station Information
- ② Signal Strength/Signal Error
- ③ Program Type
- ④ Frequency and Channel
- ⑤ Bitrate and Audio Type
- ⑥ Date

Press and hold the **【INFO/MENU】** button

When you press and hold the **【INFO/MENU】** button in DAB mode, the following information will be displayed on the screen:

DAB		DAB	
Full Scan	>	Preset Recall	
Preset Recall		Preset Save	
Preset Save		Manual Tune	>
Manual Tune	>	Prune Invalid	>
Prune Invalid	>	Announcement	Warning >
Announcement	Warning >	ASA Alerts	>
ASA Alerts	>	System Settings	>

Turn the VOL/TUNE/SELECT knob to select different settings options:

Full Scan	Automatic Search for DAB Stations		
Preset Recall	Shows a list of the saved favorite stations		
Preset Save	Saves a favorite station		
Manual Tune	Turn the VOL/TUNE/SELECT knob to adjust the DAB frequency, then press the VOL/TUNE/SELECT button to confirm.	In Europe, there are 40 frequency points, and one frequency point contains 64 radio programs.	
Prune Invalid	Deletes all invalid DAB stations. Select YES or NO, to confirm the deletion. Settings completed will be displayed if the deletion was successful.		
Announcement	Warning + Test	Receive emergency warnings + system test signals	
	Warning only	Accept emergency warnings only	
	No warning	Turn off the emergency broadcast reception function completely.	
ASA Alerts	ASA state	Automatic Radio Information Announcement: ON/OFF	The ASA information of DAB radio contains regionalized content (such as multi-language announcements), which needs to be selected according to the current location. https://www.asa.radio/
	Location	Set Geographical Location Information	
	Alert Volume	Set Warning volume	
System settings	For more details, refer to the instructions in the System Settings section.		

In FM mode, long press the INFO/MENU button on the radio to display the following information:

FM		
AMS		
Preset Recall		
Preset Save		
Scan Setting	Strong S	>
Audio Setting	Stereo	>
System Settings		>

AMS	Automatic Search for FM Radio Stations	Select YES or NO to confirm whether to reset the search.
Preset Recall	Display the list of stored favorite radio stations.	
Preset Save	Save the Favorite Station	
Scan Setting	Only Strong Stations	During the automatic station search, only stations with strong signals will be searched.
	All Stations	Automatic Search for All Stations
Audio Setting	Stereo	Stereo Setting
	Mono	Sound Stabilization
System settings	For more details, refer to the instructions in the System Settings section.	

Bluetooth Mode

- ① Press the MODE button on the radio and turn the VOL/TUNE/SELECT knob to the Bluetooth symbol. Wait for the Bluetooth pairing status.
- ② Turn on Bluetooth on the Bluetooth-enabled electronic device.
- ③ Search for “TX-414” on the electronic device and select Connect.
- ④ The screen displays “Connected,” indicating that the Bluetooth connection is successful.
- ⑤ The music on the Bluetooth device is played through the radio.
- ⑦ Music Play/Pause: Press Play/Pause button on the radio.
- ⑧ Volume Control: On the radio, turn the VOL/TUNE/SELECT.
- ⑨ Previous or Next Track: Press the ◀/▶ button on the radio.

Note:

- ① When playing music via Bluetooth, remember to turn on the volume on both your electronic device and the radio!
- ② The radio can only be connected to one Bluetooth device at a time.
- ③ Some older mobile phones require a password when connecting via

Bluetooth. The factory-set password is “0000”.

④ Some applications and browsers do not support button control in Bluetooth mode.

MicroSD card Mode

① Press the MODE button on the radio until “Card” is displayed on the screen.

② Insert a MicroSD card with music files into the MicroSD slot on the right side of the radio.

③ There are 3 playback modes: 1) → Play music files on the MicroSD card in order (default setting when turned on), 2) → Random playback, 3) → Single song cycle.

To switch the MicroSD card music playback mode: Press the **【PRESET】** button on the radio to switch the playback mode with one button.

④ Music Play/Pause: Press Play/Pause button on the radio.

⑤ Volume Control: On the radio, turn the VOL/TUNE/SELECT.

⑥ Previous or Next Track: Press the  button on the radio.

Note:

① Only the MP3 audio format is supported.

② The storage capacity of the MicroSD card should not exceed 128 GB.

Headphone Function

In the startup status, in any mode, the device will automatically turn off the speaker and enter headphone mode when the headphone is plugged in. At this time, only the headphone has sound. After unplugging the headphones, the device will resume speaker playback.

Power Bank Function

Insert one end of the charging cable into your phone or other device that needs charging and plug the other end into the USB-A output port of this unit. The charging/discharging indicator will glow red continuously, indicating that the device is charging. Unplug the USB cable to stop charging.

Flashlight - LED

Press and hold the LED button to turn on the flashlight. Press again to switch to SOS LED. Press and hold the LED button again to turn it off.

SOS

Press and hold the SOS button to activate SOS mode. In this mode, the speaker emits an alarm sound and the LED flashes simultaneously. To

deactivate SOS mode, press the SOS button.

Charging

When a USB-C charging cable is connected to charge the radio, the green light flashes slowly. When the battery is fully charged, the green light remains steadily lit. After the radio is fully charged, unplug the charging cable. The red light will then stay on for 30 seconds before turning off.

Solar Power Generation

Adjust the position of the radio so that sunlight falls on the solar panel surface as directly as possible. The power generation indicator will then light up, indicating that the solar panel is generating electricity. The energy produced will be stored in the radio's battery. Keep the surface of the solar panel clean and free of obstructions.

Hand Crank Generator

Release the crank from the adjustment mechanism and turn it at a constant speed in the same direction. At this point, the power generation indicator will light up, the hand crank generator will produce electricity and the generated power will be stored in the radio's battery.

System Settings

After starting up, press and hold **【INFO/MENU】**→ access System Settings → press **VOL/TUNE/SELECT**→ access the System Settings page; the following information will be displayed on the screen.

System Settings		System Settings	
Sleep		> Alarm	>
Alarm		> Time/Date	>
Time/Date		> Backlight	>
Backlight		> Language	English >
Language	English	> Standby auto powe	On
Standby auto powe	On	Factory Reset	>
Factory Reset		> Software Version	>

Turn the VOL/TUNE/SELECT knob to select different setting options: **(Note:** Press the **【INFO/MENU】** button again to exit the system menu).

System Settings	Sleep	Sleep Mode	By default, the sleep timer is turned off. Select 15/30/45/60/90/120 minutes by turning the VOL/TUNE/SELECT knob.
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	Alarm	Set Alarm Alarm 1 Info. Alarm Off Frequency Daily > Wake Up time 06:00 > Sources Buzzer > Duration 60 > Volume 4 > Press VOL/TUNE/SELECT to set alarms. You can set up to two alarms. After successful setup, the alarm icon and the set time will be displayed on the main interface. The setup options are as follows: ① Press VOL/TUNE/SELECT to turn the alarm ON/OFF. ② Frequency: Alarm frequency: once / weekdays / weekends / every day ③ Alarm time: specific time ④ Alarm tone: Beep tone, FM mode, DAB mode ⑤ Alarm duration: 15/30/45/60/90/120 seconds ⑥ Setting the alarm volume: Note: a. After setting the alarm, do not directly press the POWER button to turn off the device. Press the 【INFO/MENU】 button to return step-by-step to the main screen to ensure the alarm is set successfully! b. Alarm snooze for 5 minutes, press the VOL/TUNE/SELECT button to set. c. To cancel the snoozed alarm, press the POWER button. d. If the radio is turned off, the alarm will not work. Note: The Alarm function only works when the “Standby auto power-off” is disabled.
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	Time/Date	Set Time/Date Time/Date Set Time/Date > Clock style Digital > Auto Update No Upda > Set 12/24 Hour 24 Hour > Set Date Format DD-MM-YY > ① Set year, month, day, and time: Turn the VOL/TUNE/SELECT knob to adjust the number, press VOL/TUNE/SELECT to confirm. ② Clock style: Style of the clock display (analog, digital style) ③ Auto Update: Time update / do not update (the radio automatically updates date and time via DAB or FM radio) Note: This function applies to FM radios with RDS function for sending time information. a. Set 12/24 hours: 24-hour mode and 12-hour mode. b. Set date format: Display format for year, month and day.	
	Backlight	Time out	【Always On】 The screen is always on. 【10 Sec - 180 Sec】 There are 9 brightness modes. The display backlight is turned off to activate the energy-saving mode.
		ON Level	Brightness when the screen is on, three levels (high, medium, low).
		Dim Level	Brightness when the screen is off, three levels (high, medium, low).
	Standby auto power-off	Auto power off after 10 minutes of standby, default setting is On. Press the VOLUME/TUNE/SELECT knob to turn this function Off.	
	Language	A total of 12 languages:	

		English/ German/ Italian/ French/ Dutch/ Spanish/ Czech/ Polish/ Swedish/ Danish/ Norwegian/ Finnish
	Factory Reset	Reset to Factory Settings (YES, NO)
	Software Version	Display of the Current Software Version

Radio reception

Antenna alignment: For the best reception, the antenna should be aligned in the right direction. With portable devices, it may help to place the device closer to a window or turn it to achieve the best reception.

Signal interference: Note that metal objects and thick walls can interfere with DAB/FM signal reception. If you are having difficulty receiving a signal, try moving the device to another room or location.

Radiation protection: Do not place the radio directly next to electronic devices that generate strong electromagnetic fields (e.g., microwaves or routers), as these can impair reception quality.

Removing the Battery

- ① Turn off the device and make sure it is not connected to an external power source.
- ② Turn the device over and locate the battery cover on the back.
- ③ Loosen the two Phillips-head screws on the battery cover using a suitable screwdriver.
- ④ Remove the battery cover.
- ⑤ Carefully expose the installed 18650 battery.
- ⑥ Carefully disconnect the battery's connector (do not pull on the cable; hold the connector itself).
- ⑦ Remove the battery from the battery compartment.

Troubleshooting

- ① If you cannot turn on the device by long-pressing the POWER button, check whether the device has power or not. If the device has no power, charge the device and then restart it to resolve the issue.
- ② It is recommended to charge the device with a DC5.0V/≥1A power adapter. If you use a non-standard adapter, the device may not charge properly and could be damaged.
- ③ In DAB or FM mode, if the device shows noise or cannot play the radio station normally, check whether the telescopic antenna is extended. After confirming it is extended, you can adjust the position of the antenna to

resolve the issue.

④ Charging or discharging may degrade the reception signal quality of the radio.

⑤ If some mobile phones or other Bluetooth devices cannot connect to the stereo system or cannot play music after connection, check whether the mobile phone or Bluetooth device has entered the correct pairing password or whether the mobile phone or Bluetooth device supports the Bluetooth A2DP music transmission protocol.

⑥ The generator has several sets of variable-speed gears. Avoid forceful starting, abrupt stopping, and sharp direction changes to prevent damage to the gears.

⑦ Does not support USB flash drive playback.

Technical specifications

Display	2" (5.2cm) color TFT
Bluetooth	V5.3 / ~10m distance
BT transmitting frequency	2.4GHz
BT radiated output power max.	2.5 mW
FM frequency range	87.5-108.0MHz
DAB frequency range	174-240MHz
Telescopic Antenna Length	Min. 9.2cm, max.30cm
Speaker size	Ø40mm/4Ω
Speaker power	3W
Sound system	Mono
Frequency Response	100Hz-18KHz
Input power	USB-C: max. DC 5V / 1A
Hand Crank Power	Max. 400mA
Solar Panel Power	Max. 60mA (in full sunlight)
Output power	USB-A: max. DC 5V / 1A
Rechargeable battery	Li-Ion 18650, 3.7V, 2000mAh
Charging Time	Up to 3h by power adapter Up to 6h by hand crank Up to 35h by solar module
Operating Time	Up to 10h
MicroSD card	Max. 128GB class10
Supported Audio Formats	MP3
Headphone port	3.5mm
LED Lighting Brightness	150Lux
Material	PC + ABS + Silicone
Operating Temperature	0 up to 40°C
Weight / Dimensions	293g / (L) 14.8 x (W) 8.0 x (H) 5.4cm
Package contents	TX-414, USB cable, User Manual

Support

Service phone No. for technical support: **01805 012643*** (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks). Free

Email: **support@technaxx.de**

The support hotline is available Mon-Fri from 9am to 1pm & 2pm to 5pm

In the event of anomalies and accidents, please contact:
gpsr@technaxx.de

Care and maintenance

Clean the device only with a dry or slightly damp, lint-free cloth.

Do not use abrasive cleaners to clean the device.

This device is a high-precision optical instrument, so in order to avoid damage, avoid the following practice:

- Use the device in ultra-high or ultra-low temperature.
- Keep it or use it in moist environment for long.
- Use it in rainfalls or in water.
- Deliver or use it in strongly shocking environment.

Declaration of Conformity



Technaxx Deutschland GmbH & Co. KG hereby declares that the radio equipment type TX-414 Prod. ID.:5506 is in compliance with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following internet address: www.technaxx.de/reseller

Disposal



Disposal of the packaging. Sort packaging materials by type upon disposal.

Dispose of cardboard and paperboard in the waste paper. Foils should be submitted for recyclables collection.



Disposing of old equipment (Applies in the European Union and other European countries with separate collection (collection of recyclable materials) Old equipment must not be disposed of with household waste! Every consumer is required by law to dispose of old devices that can no longer be used separately from household waste, e.g. at a collection point in his or her municipality or district. This ensures that the old devices are properly recycled and that negative effects on the environment are avoided. For this reason, electrical devices are marked with the symbol shown here.



Batteries and rechargeable batteries must not be disposed of in household waste! As a consumer, you are required by law to dispose of all batteries and rechargeable batteries, whether they contain harmful substances* or not, at a collection point in your community/city or with a retailer, to ensure that the batteries can be disposed of in an environmentally friendly manner. * marked with: Cd = cadmium, Hg = mercury, Pb = lead. Return your

product to your collection point with the fully discharged battery installed inside!

Made in China

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Crank Emergency DAB Radio TX-414