



TYPE	DESCRIPTION
Standard	Worldwide Digital Cordless Telecommunication (WDCT)
Frequency range	2.4GHz ISM
Channel bandwidth	0.824MHz
Modulation	GFSK
Speech coding	Adaptive Differential Pulse Code Modulation (ADPCM)
Communication range	Up to 300 meters in open space
Base power supply	Input 120V / 60Hz
Handset charger power supply	Input 120V / 60Hz
Handset power supply	1 pack of rechargeable batteries (NiMH 750mAh)
Handset battery charging time	15 hours (approx.)
Operating time	Standby: 5 days (approx.)
	Talk: 7 hours (approx.)
Operating temperature	0°C to 45°C
Storage temperature (outdoor)	-20°C to 60°C
Storage temperature (indoor)	-5°C to 50°C
Humidity range	25% to 90%

NOTE : The technical specifications for this product and the contents of the user guide are subject to change without notice.

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downloads.

We hope you will find all the information you need on our website, however if you'd like to contact the Oregon Scientific Customer Care department directly, please visit:

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FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

CAUTION : To maintain compliance with the FCC's RF exposure guidelines place the base unit at least 20cm from nearby persons.

WARNING : Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

NOTE : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following

Intertek Testing Services

For SAR evaluation of the handset, refer to TCB Exclusions List Revised on 17 July 2002. Portable transmitter with output power less than 60/fGHz ($d < 2.5\text{cm}$) can be certified by TCB without the SAR evaluation.

In fact, the Output power for portable transmitters is the higher of the conducted or radiated (EIRP) source-based time-averaged output. And the $f\text{GHz}$ is mid-band frequency in GHz, and d is the distance to a person's body, excluding hands, wrists, feet, and ankles.

For the tested model of TW-339H, the measured peak conducted power was 86.3mW.

The conducted source-based time averaged output power
(Worst case mode: dual slot diversity)

$$\begin{aligned} &= (86.3 * 0.164) \text{ mW} \\ &= 14.15\text{mW} \end{aligned}$$

The maximum field strength (FS) was $115.1\text{B}\mu\text{V/m}$ at 2441.664MHz.
The distance (D) between the antenna and the equipment under test (EUT) was 3 meters.

From these data, the EIRP can be calculated by:

$$\begin{aligned} \text{EIRP} &= (\text{FS} * \text{D})^2 / 30 \\ &= 97.08\text{mW} \end{aligned}$$

The radiated source-based time averaged output power
(Worst case mode: dual slot diversity)

$$\begin{aligned} &= (97.08 * 0.164) \text{ mW} \\ &= 15.92\text{mW} \end{aligned}$$

Based on the above calculation, it is concluded that the handset can be certified by TCB without the SAR evaluation and the maximum source-based time-averaging duty factor is 16.4%.