User's Manual ver. 1.0 EN



# COWON<sub>Q5W</sub>



# <sup>2</sup> COPYRIGHT NOTICE

# Thanks for purchasing COWON.

We always strive for your complete satisfaction of our product.

This manual contains user guide, cautions and other useful information about your COWON player.

Please read this manual thoroughly before using, to take full advantage of features in your COWON player.

#### Legal Notice

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## On-line registration and support

- Users are strongly encouraged to complete customer registration at http://www.COWON.com. After filling out our
  customer registration form using the CD-Key and serial numbers, you can receive various benefits offered only to
  official members.
- 1:1 online support, news updates for new products or special events, and other services are available for our registered customers.
- · Each CD-key is unique and will not be re-issued in case of loss.
- · Further information regarding the product can be found on the web: http://www.COWON.com
- Users will be able to find the latest information for other COWON products and download the latest updates for firmware and software.
- · Frequently Asked Questions and Answers can be found on the website.





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# COWON Q5W

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COWON 05W

# 1. Precautions for Using this Product

COWON is not responsible for any damages or failures to products that are caused by user misuse of products and by not following the set rules/guidelines that are described in this manual.

- · Do not use this product for other purposes than those described in this guide.
- · Handle manual, product package materials, accessories, etc with care to prevent cuts and injuries to your hands.
- Do not handle/touch LCD screen with a sharp object such as nail, pins, and etc. It may cause permanent damage(s) to the device.
- · Do not view videos, pictures and texts stored in your player while driving a vehicle for your safety.
- Operating other features of the player is also dangerous and may cause fatal accidents while driving.
- If you smell the player burning or find it overheating while in use, remove the battery and contact our A/S Center as soon as possible.
- If you smell the player burning or find it overheating while in use, reset the player and contact our online Cowon Technical Support Center as soon as possible.
- · Listening at high volumes (85 dB and above) for extended periods may harm your hearing.
- · For your protection, use the player in a well lit area where LCD screen will not overly strain your eyes.
- · Using the player in places with high occurrences of static electricity may cause malfunctions.
- · Keep the player away from magnets and direct magnetic fields, as they can cause malfunctions.
- In case of using this device primarily for a storage device, it is recommended to back up all data before use.
   COWON SYSTEMS Inc. is not responsible for any data loss due to hw failure.
- All data stored in the player may become deleted when being serviced. Our Service Center does not backup files while repairing players. Please note that COWON SYSTEMS, Inc. is not responsible for any data loss form products entrusted to us for service.
- Be sure to disconnect the power supply to the PC and AC adapter during lightning or thunderstorms, to prevent danger to the user or the risk of fire hazards.
- Keep the player cool and ventilated place, away from direct sunlight as it may cause deformation, damages to
  internal circuitry or LCD screens
- Do not expose the player in either cold weather of under 0 ℃ or hot temperature places over 50 ℃ such as inside automobiles. This may cause fatal damage to your player.
- Do not use detergent or other chemicals on the product surface due to decolorization. In this case, wipe the polluted area carefully with a soft cloth.
- Touching the player with wet hands may cause damage and malfunctions. Handle the power plug only with dry
  hands (otherwise an electric shock may occur).
- Do not expose your player to water or keep it in a damp or humid place for long periods.
- If the player is damaged from moisture as described above, product failure is then classified as failure
- Do not attempt to disassemble or reconstruct the player. Any defects resulting from this will void any warranty, and the unit may be permanently disqualified from any warranty service.
- Do not mix directions when connecting cables to your player or PC. Connecting cables incorrectly may damage your player or PC. Do not bend or press connection cables with heavy objects.
- · Only use the AC power adapter and USB cable provided by COWON SYSTEMS, Inc.
- Do not drop or subject the product to any hard impact This may result in malfunctions and/or unit failure and void the warranty.
- Price of the player may fluctuate due to unexpectedly commercial conditions. In this case, COWON SYSTEMS, Inc. has no responsibility to compensate for the price fluctuation.



# 2. Package Contents

COWON Q5W Standard package Earphones AC Adapter Carrying Case (optional) USB Cable AV Cable S-Video gender(optional) User's Guide Hand Strap installation CD, wireless manual remote



# 3. Names of Parts





Power/Hold switch : Turns Unit ON/OFF. Hold will disable all buttons/keys on the Unit. The switch turns LCD ON/OFF, if it is pressed when power is on.

Speaker : Listen to audio without earphones with the built-in stereo speaker.

Remote sensor : Receives signals from Remote.

Microphone : Voice recording with the built-in microphone.

• Volume button : controls volume.

Stylus storage hole

LED : Indicates basic player status.

STFT LCD : Displays information and playback screens.

Wireless Ian Antenna: Internal Antenna for Wireless Ian reception

Weadphones Jack : 2.5mm Headphones plug. Headphone with microphone can be used to record.

Description Earphone jack : connect the bundled earphone or any earphone with a standard 3.5 mm plug

@USB Port : connecting to PC via USB 2.0 cable for file transfer.

RESET hole : Cuts off power when the player is malfunctioning. Does not influence player operations.
USB HOST Port : connecting to USB host compatible devices via USB Host cable.

DC Adapter Jack : connect the adapter to either turn on or charge Q5W.

I/O port: used for AV OUT

Strap holder : Holder to connect various straps and accessories.

COWON Q5W

# A/V Cable



· COWON Q5W supports Composite/Component Video out and stereo / SPDIF Audio out.



 Use A/V cable to connect I/O port on Q5W and AV In(Composite/Component) port of an external AV device.

Settings -> TV setting -> Video OUT

# 5. Re Charging

Use included AC adapter to charge COWON Q5W.



- Connect AC adapter to Q5W(DC IN port) : approx. 5.5 hrs for a full charge.
- Charging indicator LED: RED -> Still charging YELLOW -> Fully charged
- Q5W cannot be charged while it is in use. Charge the unit after shutting the unit off or change the power settings (settings -> system -> power charging)
- Q5W may heat up after being used for the extended time. It dissipates internal heat though the aluminum casing, therefore the unit may feel warm.
- Make sure to fully charge the unit before its initial use or the first use after a long period of non-use.
- For your safety, genuine AC adapter from COWON is recommended.
- Genuine AC adapter supports both 110/220V.
- Q5W does not support charging through USB cable. AC adapter must be used for charging.

# 6. Connecting to PC and file storing

COWON Q5W supports Removable storage mode, Active sync mode, and MTP Mode. Files can be stored in Removable storage mode.

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1. Select Settings -> System -> Mass Storage and choose 'Removable Storage Mode' 2. Connect Q5W to a PC via USB cable included.

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3. If connection made successfully, the following picture will be displayed on the LCD.

- 4. Q5W will appear as a removable drive in file explorer of the Wwindows.
- 5. Launch COWON Mediacenter or Windows file explorer.

6. Copy media files such as music file, picture file, encoded video file, and etc from PC to COWON Q5W.

After all files are saved, click the size icon from the PC tray.

8. Click the following popup message when it appears.



9. When the Safe To Remove Hardware window appears, separate the USB cable...



- Check connection settings and cables, and make sure Q5W is properly connected and is recognized by PC.

- If the following message appears, run Safe To Remove Hardware after a few minutes. This is not a malfunction.



- PC environment
  - \* Pentium III 200Mhz or Higher
  - \* 32MB Main Memory or More
  - \* 50MB Hard Disk Space or More
  - \* 256 or Higher color display
  - \* USB Port(2.0 High Speed)
  - \* DVD-ROM Drive
  - \* Windows ME/2000/XP
  - \* MAC OS 10.X (Only date transfer supported)
  - \* Linux kernel v2.4 or higher (Only date transfer supported)



# 1. Buttons/Keys



# 2. Controls



Q5W's Touch screen LCD makes controls intuitive and simple.

In the Mode selection screen, pressing button on the left side of the screen will display available modes on the right side. Choose from the list on the right side by clicking or touching mode icon, then the selected mode will be activated.

After launching a mode, press the left button, then navigate/control with the button on the right side. To close current mode, press "Menu" button on left side or "Quit" button on right side.



# 3. Media

Movie, Music, Radio, Flash modes are available in Media.

# Movie



Further information



#### Small

Switch to default size to reveal video controls (Video capture, bookmark, and etc)



## Full

Switch to fullscreen mode.

# File List

- Browses files stored in COWON Q5W in file tree style.
- Open folder, Move through file hierarchy, select/delete text files. Multiple file selection is not supported, use Office-Browser mode for the feature.



#### Bookmark

- Playback/Delete Bookmark(s)
- · If selected, it plays back from the location where bookmark is set.

## Text View

· View text files while watching video.



Settings

Set video playback environments: aspect ratio, play speed, subtitle size and etc.





Functional button



 Plays audio files,. sSection repetition, and addling to DPL (dynamic playlist) features are available.



## File List

- · Browses files stored in COWON Q5W in file tree style.
- Open folder, mMove through file hierarchy, select/delete text files. Multiple file selection is not supported, use Office-Browser mode for the feature.



## DPL List

Playing/Adding/Deleting DPL list created/added in 'File List'



#### JetEffect

 World-renowned sound enhancement that clears music with BBE, emphasizes the bass with Mach3Bass, restores distorted sound with MP Enhance, gives full 3D experience with 3D Surround, and more.

 Excessively valuehigh value settings of JjetEffect sound attributes may increase the noise level during playback. For further details on JetEffect, please refer to the BBE MP manual from our webpage (http://www.COWON.com).



#### Text View

View text files even while playing audio files.



#### Settings

 Set audio playback environments: Play speed, Repeat, Random, Boundary, and Seek Speed.



# <sup>12</sup> Product Usage

# Radio



Set information



#### Preset On

· Enables preset feature while listening to FM radio.

 Adding a new channel to channel list can be done with 'scan channel' and 'add channel' in 'Preset Off' mode.



#### Preset Off

- · Disables presets, and enables manual tune-in.
- Channel can be scanned and added to channel list while listening. Channel list can be selected in 'Preset ON' mode.



Set channel preset, region, sound, and output methods.

 Make sure earphones are attached. Q5W does not have built-in antenna, it uses earphones as an external antenna.



# Flash



- Run Flash files( swf extension) stored in COWON Q5W.
- Play simple flash games and flash animation in this mode.



# <sup>14</sup> Product Usage

# 4. Office

Photo, Text, Browser modes are available in Office.

# Photo



Further information



#### Photo

Displays image files. Magnification/Reduction/Picture Rotation features are available.



#### SlideShow

· Slideshows image files stored in the same folder.



## Cartoon

· Comic book images scale up to full screen format for convenience.



#### Thumbnail

· Shows simple Thumbnail images.



## File List

- · Browses files stored in COWON Q5W in file tree style.
- Open folder, Move through file hierarchy, select/delete text files. Multiple file selection is not supported, use Office-Browser mode for the feature.



#### Settings

Avaialbe settings: SlideShow Delay, Auto Rotate, Fill Screen, Split Image, Show Exif, Optimize Decoding, and Auto Rotate(Exif)







#### Text View

· Views text files. Auto-scroll, and bookmark features are available.



## File List

- · Browse files stored in COWON Q5W in file tree style.
- Open folder, Move through file hierarchy, select/delete text files. Multiple file selection is not supported, use Office-Browser mode for the feature.



#### Bookmark

- Deletes/Adds Bookmark(s)
- · If selected, it opens the bookmarked page



#### Settings

· Set Text viewer environment: Auto Scroll, LCD Brightness, Font size/color





- · Browse stored files in COWON Q5W in windows file tree style.
- When USB Host 'enabled' (Settings -> system -> USB Host), USB device connected can be viewed under Browser mode.

# 5. Utility

Record, Settings, Bluetooth modes are available in Utility.

# Record



· Recording via built-in microphone or external headsets

 Music mode is recommended to playback recorded files due to simplicity of the music player in the record mode.



# Settings

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## 📃 Display

- LCD Brightness
- · Adjust brightness of the LCD.
- Calibrate Touch Panel
- · Recalibrates touch grid on the touchscreen.
- **UI** Theme
- · Selects pre-loaded system UI theme
- Mouse Pointer
- · Enables/Disables Mouse pointer feature.
- If WINCE compatible mouse used, enable this feature.
- Menu Language
- Selects system language for COWON Q5W.

# **TV** Settings

TV Out

- · Selects TV Out standard (for e.g. select 'NTSC' for korea)
- **TV Brightness**
- Adjust TV Out brightness level

TV Contrast

- · Adjusts TV OUT contrast level.
- TV Saturation
- · Adjusts TV Out Color quality.

Video Out

· Selects Video Out mode (s-Video/Composite, RGB Component)



# <sup>18</sup> Product Usage

Sound

Beep Sound

Enables/Disables Beep sound.

SPDIF Out

· Enables/Disables SPDIF Out.

# 👿 System

USB Connection

- Selects USB connection mode
- · To transfer files, 'Mass Storage' must be selected.
- 'Mass Storage' mode is default, and it will be restored after system restore/reboot.

Date

Sets Date

Time

Adjusts Time

Alarm Settings

- Set Alarm clock. Alarm goes off at specified time, and Q5W automatically turns itself on.
   Alarm Options
- Adjust volume and set program for alarm clock.

Sleep

- · Sets auto-off time.
- · COWON Q5W automatically shuts itself off after specified time.

USB Host

- Enables/Disables USB Host feature
- If set to 'Disable', compatible USB device won't be recognized when connected to COWON Q5W.
- · USB Host will be automatically disabled after system restart/reboot.

Startup program

· Set system startup programs.

Hold settings

· Enable/Disable key operations when 'HOLD' switch is on.

Wireless lan Settings

- Turns Wireless lan On/Off
- Enabling Wireless Ian feature consumes more energy, hence it may reduce battery performance significantly.

Power management

- Auto LCD Off
- Set LCD auto-off time.
- LCD screen automatically turns off, if Q5W does not detect any operations for specified LCD auto-off time.

Auto Power Off

- · Automatically powers off after no operation detected for specified time.
- The feature is disabled automatically, if unit's in use.

Hard Disk Power Management

- Enable/Disable HDD power savings mode.
- If set to 'Enabled', playback time would be extended, but system response may slow down.



Charge During operation

- Enable/Disable Charging via AC adapter while in use.
- If set to 'Disabled', AC adapter will only be used as an external power source, and will

not charge COWON Q5W.

## Information

- · Boot loader version: Displays current booting loader version installed
- · Firmware version: Displays current firmware version installed
- · Application Version (program version??) : Displays current program version installed
- Hard Disk Total Capacity: Displays total HDD capacity
- · Hard Disk Remaining Capacity: Displays remaining storage space in HDD

#### Bluethooth

Built-In Bluethooth Pan Settings and connecting to Bluetooth devie(s) Alternative way to access Bluetooth mode: Control Panel (under WinCE) -> Bluetooth Device Properties

#### Search

 Detecting active Bluetooth device(s) near COWON Q5W. Bluetooth option (under 'Bluetooth Device' settings) must be turned on.

Pairing

- Perform 'Paring' with Bluetooth device found from search
- Use the same passcode for COWON Q5W and Bluetooth device during 'Pairing' in order to establish Bluetooth connection.

#### Connect

• Establish connection between COWON Q5W and Bluetooth Device. 'Paring' must be done in the initial connection.

Disconnect

· Disconnect selected Bluetooth device connection.

Delete, Delete All

· Delete Bluetooth Device list from the search

When settings window closed, Bluetooth connection remains active after connection is made properly.

Run 'COWON Launcher' to return to Q5W main menu.



# <sup>20</sup> Product Usage

# 6. Network



- · MSN, Explorer, WiFi modes are available
- · To connect to the internet:
  - 1. Turn WiFi mode On where WiFi is available
  - 2. Use Active Sync mode when connecting to a PC that has an internet access.

• Q5W automatically initiates WiFi settings, when available wireless AP signal(s) detected. Select a Wireless channel and press 'Connect' to connect to the internet.

- If WiFi settings window does not show, check WiFi settings by: Utility -> Settings -> System -> WiFi settings
- Run 'COWON Launcher' to return to Q5W main menu.

# 7. Windows



 WINCE applications can be launched within the Windows mode. It deactivates Q5W main menu when this mode activates.

• To return to Q5W main menu, run 'COWON Launcher' icon on the desktop.



# 1. Product specifications

COWON Q5W- Product specs				
LCD	LCD 5 inch 16.7 million Color TFT LCD – WVGA (800x480)			
	Cont. Ratio	500:1		
	Brightness	200cd/m2		
	Other	Touch screen		
	CPU	Alchemy AU1250		
H/W	MEMORY	64MB NOR FLASH, 128MB DDR2 SDRAM		
	WiFi	IEEE 802.11g/b		
	Bluetooth	Bluetooth Ver 2.0 +EDR / A2DP, AVRCP profile		
	OS	WinCE 5.0 Professional		
	Multimedia	Music/Video playback		
S/W	Addn' 1. features	es Flash player, voice recorder, picture/text viewer, FM radio		
HDD	1.8 inch, 40GB / 60GB, FAT32 File system			
USB Interface	USB Device / Host : USB 2.0 High Speed			
Transfer rate	Max Write : 76Mbps, Read : 64Mbps			
Battery type	Built-In rechargeable Lithum-Polymer			
Battery Life Audio : up to 13 hours continuous		purs continuous		
	Video : up to 7 hours continuous			
Charging time	Approx. 5.5 hours via AC Adapter			
Buttons	VOL-, VOL+, POWER/HOLD Switch			
SNR	95dB (A-Weighted)			
Freq. Range	20Hz~20KHz			
Power Output	16 Ohm Earbuds :	34 mW + 34 mW		
	Built-IN:1W+1W			
Dimensions	138.8 X 88.5 X 20	0 mm (WxHxD)		
Weight	380g (including battery)			

# COWON Q5W - multimedia

Music	File formats	MP3, WMA, ASF, OGG, WAV, FLAC, APE, MPC		
	Audio Codec	MPEG 1/2/2.5 Layer 3, WMA, Ogg Vorbis, Wave, FLAC, APE, MusePack		
	Audio Res.	8Kbps ~ 1.4Mbps		
	Sound enhancements	jetEffect (5 band EQ, BBE, Mach3Bass, MP3 Enhance, 3D Surround)		
Movie	File formats	AVI, ASF, WMV, MPG, OGM		
	Video Codec	DivX, XviD, MPEG4, WMV 7/8/9		
	Video Res.	Max 720x480, 30fps		
	Audio Codec	MP3, WMA, AC3, OGG		
	Audio Res.	Max 48KHz, 320 Kbps		
	Sound field	3D Stereo		
	Subtitles	SMI, SRT		
Recording	File formats	ADPCM 8~48 KHz recording and playback		
	Microphone	Built-In, External (optional)		



# <sup>22</sup> Product Details

Picture	Files formats	JPG, BMP, PNG, RAW	
	Max Res.	Max 2560x1920	
Text Files formats TXT file Viewer		TXT file Viewer	
	Max Size	Max 7MB	
FM channels	FM RADIO : 76MHz ~ 108MHz, 87.5MHz ~ 108MHz		

- Battery performance test was conducted under optimal condition by manufacturer; therefore actual performance may differ.



# 2. Firmware Upgrade Guide

Firmware is embedded software within hardware, and upgrading it further enhances system stability and feature sets.

Unnoticed changes in unit features and performance may occur after firmware upgrade. Be advised that Beta (non-official version) firmware may cause system malfunctions.

To check current firmware version:

Settings -> Information

Back up all data before firmware upgrade.

Firmware upgrade procedure may differ by versions. Visit our website(www.COWON.com) for further assistance.

# 3. WINCE Upgrade

WINCE upgrade pack is available for additional cost. The upgrade pack includes office viewer feature and upgrades OS to WINCE Professional Plus.

Refer to WINCE upgrade package manual for upgrade instruction.

Additionally, some office file may not be viewed after upgrade using WINCE Professional Plus, and viewing experience on Q5W may differ from viewing from PC.



# <sup>24</sup> Product Details

# 5. Factory Defaults

Default settings and Factory default options are available in COWON Q5W. User settings will be lost and Factory default settings will be restored.

#### How to

1. Press and hold volume up '+' button and power the unit ON.



2. After boot up, restore mode will be displayed.



3. Press 'Initialize registry' button to restore factory default settings.



 In case of system failure, press 'RESET' to reboot the system. If failure continues, restore factory default by following the above steps.



# Product Details 25

# 6. Converting Video Files Using COWON MediaCenter - JetAudio

1. Install and then run COWON MediaCenter - JetAudio.



2. Click "Convert Video" on the top to convert the video file.



3. From the Convert Video window, click "Add File" to select the files to convert.



4. Check the selected video files in the list.

ource			
Add <u>F</u> iles	Import		
Duration	Preset	Туре	File
🗹 🗌 0:25:06	iAUDIO 6	AVI	My Movie.avi

5. After checking the target folder location to save the converted files and other settings, click on "Start" to start the video conversion process.



- Movie files that have not been converted by COWON MediaCenter JetAudio will not play in iAUDIO.
- Make sure that the movie files play properly on the PC.
- Not all files are convertible. Files initially damaged before conversion may not be viewed on device even though conversion was successful.
- Conversion time may vary depending on PC performance, source file size and codec types.
- "Preview" allows checking the converted video before starting conversion.
- To convert a file with subtitles or to change settings on subtitles, click on "Convert Options" .



- SMI files for subtitles must have the same file name as its video file.

# <sup>26</sup> Customer support

## Didn't find solution from the manual

Please refer to our homepage (www.COWON.com), and visit customer support, product FAQ, or beginner's guide for further assistance.

## Unit won't power up.

Plug AC adapter and charge Q5 when the battery is completely depleted. Q5W may take longer to recharge after complete depletion. In such case, the unit might take longer time to power on even after plugging AC adapter to charge.

## Button does not work.

Make sure 'HOLD' switch is disabled.

## Wireless remote does not work

Check battery in the remote. Remove any objects may block communication between remote and remote sensor on Q5W.

## Can't hear anything

Check to see if volume is set to '0'. Make sure compatible media file is stored in Q5W. Also, damaged audio file may generate noise or distorted sound during playback. Make sure headphones are connected properly. Wipe headphone plug with soft cloth may help reducing noise during playback.

## Music mode won't display album art

To display album art, image file must be stored in ID3 Tag of the audio file. Use COWON Mediacenter-jetAudio to edit ID3 Tag.

## Can't play video files

Loading time may vary depends on codec and types of video file. Use COWON MediaCenter to convert video files to Q5W compatible files, otherwise video may not be played on Q5W.

## TV OUT puts noisy picture/does not work

Make sure Q5W TV out setting is correct. Utility -> Settings -> TV -> TV OUT/Video OUT

# Can't Tune into FM channels

FM signal strength may vary by locations. Make sure earphones are attached. Q5W does not have built-in antenna, it uses earphones as an external antenna.



## Can' t open office files.

COWON Q5W does not include office viewer. In order to view office files, WINCE must be upgraded using WINCE upgrade pack. Please refer to the WINCE upgrade guide from the Microsoft.

## Noisy recordings

Noise from the HDD may be picked up by built—in microphone during recordings. Also, due to limitation of digital devices, recorded audio may not sound normalized.

## Can't read decoded foreign languages

COWON Q5W is built on the English version of Windows OS, therefore some special foreign characters/ symbols/fonts might not be displayed correctly.

## PC does not recognize Q5W.

Make sure Q5W is set to 'Mass Storage Device' (Uitilty->Settings ->System -> USB) When Active Sync Mode is enabled, Q5 won't be recognized as a Mass Storage Device from the windows OS. Press 'RESET' button, when Q5W does not turn on after connecting to PC.

If connecting is unstable (disconnecting frequently), use USB port in the back of PC.

## USB Host won't recognize my USB device

Not all USB devices are compatible with the Q5W USB Host. Please visit our website and check the compatible USB device list.

## Available disk space indicated is less than actual disk space.

Available disk space indicated is less than Actual disk space.

Available disk space indicated may less than actual disk space. This is because the space recognized by both the hard disk manufacturer and your computer is different, and the space used for system files for normal player operation has influence in the actual disk space.

## Disk is full, and system does not work.

Disk is full, and system does not work.

At least 5MB of free space is required for settings files and system reserves.

# Additional page

# User's Manual Information

#### Do not

Any changes or modifications to the equipment not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

#### FCC Compliance 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

#### Information to User

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 measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.





