

User's Manual



Please read this manual carefully before using the camcorder in order to use it well. And please keep it in case that you need it in the future. For the tech support, please contact us by

All the screen displays and illustrations in this document are for reference only, and they may be different from the DV you have because of technical development and different lot numbers of products.

Tips:

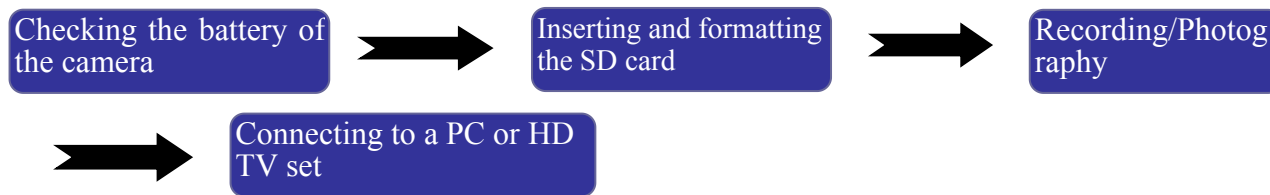
1. Please make sure the SD card is U3/Class 10 Level.
2. Please format the SD card for the first time using the camera, then restart the camera.
3. Please charge the battery before use.
4. The camera support recording while charging, but only when powered by DC or power bank.

How to format the SD card:

- 1) Press the Mode button.
 - 2) Choose Setup.
 - 3) Use the W/T button to page down, find the Format option.
 - 4) Press the PHOTO button to confirm.
 - 5) Use the W/T button to choose Yes, then press the PHOTO to confirm.
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Description

The following flowchart shows the procedure of using this DV.

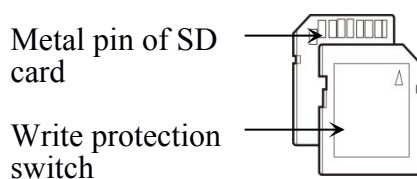


⚠️Note: Before use a new SD card or an SD card that has been used on another device, please format the SD card first before using this DV. Before the formatting, make sure important data is backed up on another medium, such as floppy disk or hard disk.

Notice Before Usage

This camera supports SD cards.

The write protection switch on an SD card can prevent image files from being deleted or formatted.



Push the switch on the SD card to the bottom, and data will be protected. Push the switch on SD card to the top, and the write protection function is disabled. Before capture the photo or take the video, push the switch on the SD card to the top.

User Instructions for SD Card

(Any question, please feel free to email to service@camcorder.com)

- To use a new SD card or an SD card containing data that cannot be identified by this DV or images that are shot using another device, format the SD card first.
- Please use the high speed SD card faster than class 10
- Before inserting or removing an SD card, please take power off the DV first.
- Using the SD card repeatedly will reduce its performance. In this case, buy a new SD card.
- The SD card is a precise electronic device. Do not bend the SD card and avoid it falling down or being pressed.
- Do not expose the SD card to environment with strong electrical field or electromagnetic field, for example, beside speakers or TV receivers.
- Do not use or place the SD card in too hot or too cold environment.
- Keep the SD card clean and avoid it contacting any liquid. If the SD card contacts liquid, wipe it with a soft cloth.
- Put the SD card into a sheath if it is not used for a long time.
- If the SD card is used for a long period of time, it will become hot. This is a normal phenomenon.
- Do not directly install an SD card that has been used on another device. To use such an SD card,

- format it using this DV.
- In one of the following situations, the recorded data may be damaged:
 - The SD card is used improperly.
 - During recording, deleting (formatting) or reading, put out the battery or take out the SD card.

Maintenance

Store the DV in a dry and dark environment and remove the battery.

- When using this DV, wear wristbands to avoid it falling off.
- When putting this DV away, cover the lens cap to avoid dirt and scratch.
- When putting this DV away, close the screen to avoid dirt and scratch.
- To clean the lens surface, blow the dust off and use a special cloth or tissue to wipe the lens gently.
Use cleanser to clean the lens if necessary. Do not use organic solvents to clean the camera.
- Do not touch the lens surface with fingers.

System Requirements

Before using and operating this DV to download photo or video, ensure to meet the minimum system requirements of PC. You are advised to use a high-performance PC to operate that so as to bring the DV effect to the maximum. The following table lists the minimum system requirements for PC:

System Requirement	
Operating system	Windows XP, Windows Vista, Windows 7, Windows 8, Windows 10, and Mac 10.2
CPU	> 4 cores
Memory	> 2 GB
Audio card and graphic card	In support of DirectX8 or later
Hard disk	Remaining space >10 GB
Others	USB 2.0 x 1 or USB 3.0 x 1

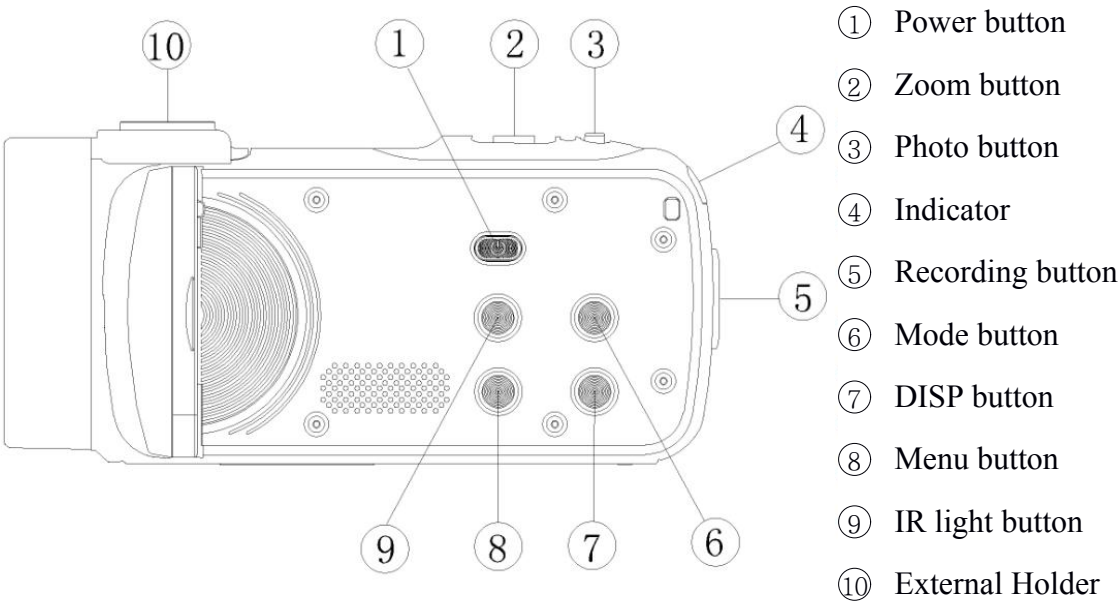
Function Characteristics

This DV has multiple types of features and functions:

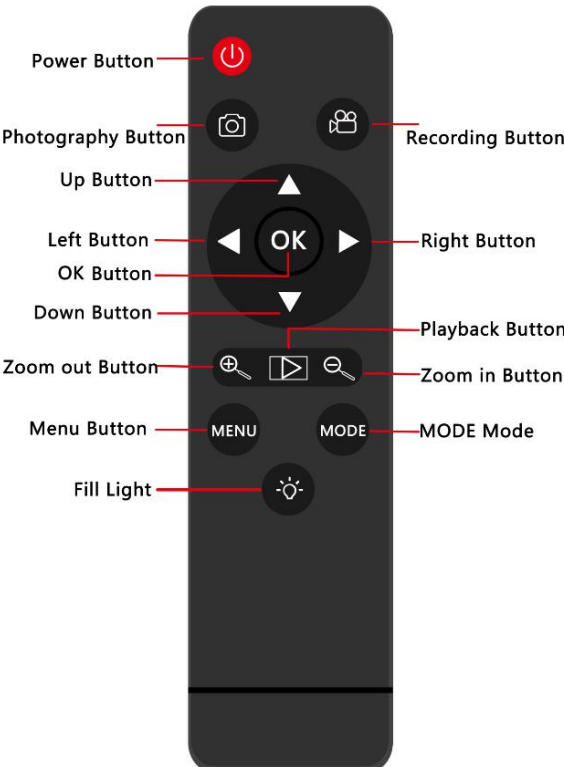
- Video resolution (4K UHD)
- Photo resolution (56MP, including interpolation)
- 3.0-inch IPS capacitive touchscreen
- Mass storage (mobile disk)
- 16-X digital zoom
- IR function
- Remote control function
- Support of high-sensitivity microphone
- Support of hot shoe
- Support of concurrent charging and recording
- Support of HD output
- Support of external microphone
- Support of WiFi (real-time preview, playback, and sharing)
- Support of time-lapse photography (Time-lapse photography is a technology that compresses time. With this technology, a set of pictures or videos that span several minutes/hours/days/years is

compressed as a short period of time by means of picture serialization o video frame extraction and then played in video mode. In a time-lapse video, the slow change process of objects or scenes is compressed as a short period of time, presenting a strange and fascinating sight that is usually undetectable by naked eyes.)

Appearance



Note:
Before using the remote control, Please install the 2*AAA battery first. The instruction of remote control as below:



1) The remote control can't turn on or turn off the camcorder, and neither pause the recording.

2) The valid distance of the remote control is up to 26 feet.

Buttons and Indicators

Button/Indicator	Function
POWER button	Power on or off this DV. In power-on state, press this button to power off the DV and press it again to start the camera.
ZOOM button	T indicates zoom-in, and W indicates zoom-out.
PHOTO button	In the photography mode, press this button to take a photo. During recording, press this button to pause recording and press it again to resume recording.
Indicator	BUSY indicates the DV is working and CHG indicates the DV is charged. In power-off state, connect the DV to the charger. Then, the DV enters the charging mode and this indicator is steady on. After the battery is fully charged, this indicator is off.
START/STOP button	Start or stop recording.
IR light button	Turn on or off the IR light.
DISP button	Press this button to remove the icon for display, and press it a second time to turn off the screen, and press it a third time to restore to the original display.
MENU button	Open and exit the menu.
MODE button	Switch between different modes (recording mode, photography mode, review mode and setting mode).
External hot shoe base	Install an external microphone, a fill light, or any other hot shoe device.

Getting Started

Installing Battery

This DV uses high-capacity chargeable external lithium battery.

Install the battery into the slot by aligning the battery with the battery compartment.

Installing SD Card

Insert the metal pin of the SD card into the card slot based on the tip beside the card slot. The SD card must be inserted before the camera can be started.

To remove the SD card, press it down to take it out. When the camera is started, removing the SD card will automatically stop the camera.

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- Before replacing the SD card, take power off the DV.

Note:

- Ensure that the SD card is inserted in correct direction. Control the force of inserting the SD card to avoid damage to the SD card or camera components. If the SD card



cannot be inserted, check the direction.

- To use a new SD card or an SD card that has been used on another camera, format it first.

Power-on and Power-off

1. Open the LCD so that the LCD faces you. The camera is automatically started. Close the LCD. The camera is automatically stopped.
2. In power-off state, press the power button to start the DV. In power-on state, press the power button to stop the DV.

Recording Mode

After the camera is started, it enters the recording mode by default. The following figure shows the interface:



1. Mode icon. In the figure, it is the recording mode.
2. Show the recording resolution
3. Show the setting time for time-lapse
4. Show the light state IR-LED-OFF.
5. Show the external microphone insert.
6. MENU touch button
7. Battery level icon Time icon.
8. Press the Photo button to push/restart recording video
9. Before recording, the available recording time of the SD card is displayed. During recording, the recording duration is displayed..
10. SD card icon.

In the recording mode, press the recording button to start recording. A red point flashes on the LCD, and the time in the upper right corner starts to count. Press the recording button again to stop recording.

During recording, press the photography button to pause recording, and press the photography button again to resume recording. If the image is dark, press the IR button to enable the IR function. In this case, the image turns to black/white. You can also turn on the fill light.

Functions of the Recording Mode

In the recording mode, touch **MENU** icon on the LCD or press the MENU button on the DV body to enter the menu interface, The item function describe as bellow:

Resolution: Select your required resolution. Different resolutions will get different recording effect, and the size of the generated file varies.

AWB: Select a light condition for recording.

Color: Select different color requirements for recording.

Exposure: Select an exposure value for recording. A great exposure value indicates a high image brightness.

Metering: Set a computable metering range during automatic exposure.

Time-lapse video: Delay the time of each frame during recording. Set different durations to indicate intervals of frames. With this function, the slow change procedure of certain scene can be recorded. For example, the blossom procedure of a flower can be recorded.

Photography Mode

In the recording mode, press photo button or press the MODE button to enter the setting mode , touch the camera icon. It enter into the photography mode. The following figure shows the photography interface.



1. Mode icon. In the figure, it is the Photo mode.
2. Show the resolution for take picture
3. Show the setting time for self timer
4. Show the face detect on or off
5. Show the anti-shake on or off
6. Show the light state IR-LED-OFF.
7. Show the external microphone insert.
8. MENU touch button
9. Battery level icon Time icon.
10. Remaining capacity icon. Display the number of pictures that can be taken in the SD card.
11. SD card icon.

In the photography mode, press and hold the photography button to wait for a green frame to display, and then press the photography button to take photos. Finally, release the photography button. After a normal screen is displayed, the photography is complete. During photography, if the image is dark, press the IR button to enable the IR function. In this case, the image turns to black/white. You can also turn on the fill light.

Functions of the Photography Mode

In the recording mode, touch the  icon on the LCD or press the MENU button on the DV body to enter the menu interface, The item function describe as bellow:

Resolution: Select your required resolution. Different resolutions will get different photography effect, and the size of the generated file varies. A high resolution means a large file and an improved effect.

Capture Mode: Select the duration of time-lapse photography.

Anti-shake: Take on/off the image Anti-shake function.

Face Detect: Take on/off prioritize face as a condition for photography.

Burst Mode: Take on/off the burst mode. If the burst shooting function is enabled, press the photography button to take three photos continuously. With this function, moving objects can be shot.

AWB: Select a light condition for photography.

Color: Select different color requirements for photography.

Exposure: Select an exposure value for photography. A great exposure value indicates a high image brightness.

Sharpness: Select a sharpness of the outline of an object in a picture.

ISO: Set the ISO value of pictures during exposure.

Metering: Set a computable metering range during automatic exposure.

Playback Mode

In the video mode or photography mode, press the MODE button to enter the setting mode , touch the playback icon. It enter into the playback mode. In the playback mode, the current picture or video is the last one that was shot. Press the zoom button to play back all shot pictures or videos one by one.

In the playback mode, touch the nine-key icon on the touchscreen. The pictures are videos are

displayed as nine-key icons so that you can quickly select required pictures or videos to watch or process. Press the zoom button to play back all shot pictures or videos one by one.

In the playback mode, select a video file, and press the photography button to start playing the video. During playback, press the photography button to pause, and press the recording button to stop.

Functions of the Playback Mode

In the playback mode, touch the **MENU** icon on the LCD or press the MENU button on the DV to enter the menu interface, as shown in the following figure:

Delete: Delete pictures or videos stored in the SD card. Touch the OK button to select a deletion method.

1. Delete current: Only the current picture or video is deleted.
2. Delete all: All pictures and videos stored in the SD card are deleted.
3. Cancel: Exit the current interface and return to the previous menu.

Protect: Lock files to avoid mistaken deletion of any file.

1. Lock : Only the current picture or video is locked.
2. Unlock : Only the current locked picture or video is unlocked.
3. Lock All: All pictures and videos are locked.
4. Unlock All: All locked pictures and videos are unlocked.

Setup Mode

In the video mode or photography mode, press the MODE button to enter the setting mode , touch the setup icon. In the setup mode, you can set parameters related to this DV.

Language: Select a language.

Sound: Enable or disable button sound.

Frequency: Select the frequency used locally.

Auto Off: Set a duration to enable the camera to automatically stop if it is unused for the specified duration to reduce power consumption.

Date: Set time, and enable the time to be reserved on pictures or videos. If you enable the time, the time will be saved in files. If you disable the time, the time will not be displayed in the files.

Format: Format the SD card.

Default: Restore the DV parameters to factory settings.

Note:



- During photography, put the DV on a support such as tripod to ensure picture quality.
- If set the Vertical shooting mode on ,must put the recorder as the right set.
- After you press the shutter button, the BUSY indicator is turned off for a while, during which, do not move the DV. After the BUSY indicator flashes twice, you can move the DV. Otherwise, the pictures are blurry.

WiFi Function

Before using the WiFi function, scan the following QR code to download an app.



Android



IOS

For Android smartphone, use the phone to scan the Android QR code, and follow the wizard to download the app VF CAM.apK. After it is downloaded, touch the app to install it. And you can search “VF CAM” in the Google play to install the APP.

For iPhone, use the phone to scan the iOS QR code, and follow the wizard to download the app VF CAM. And you can search “VF CAM” in the play store to install the APP.

WiFi: In the video mode or photography mode, press the MODE button to enter the setting mode , touch the WIFI icon. The WiFi function is enabled. After the WiFi function is enabled, the DV returns to the preview mode and displays the WiFi SSID and WiFi password. In this case, open the app to select the camera SSID and enter the WiFi password. Press the photo button to exit the WiFi mode.

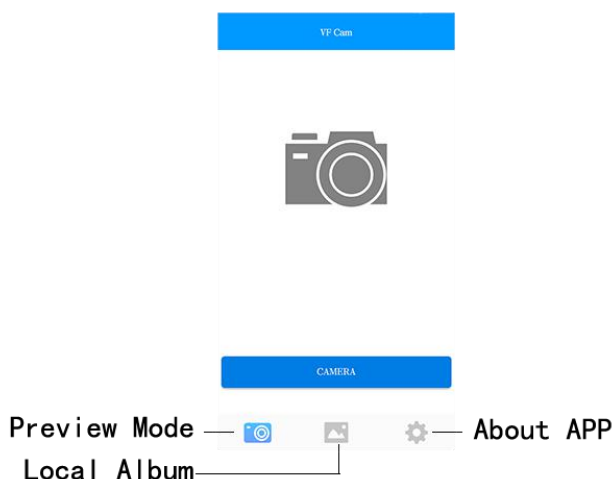
Using App

1. Start your DV. In the recording mode, pres the icon to enter the menu, select WiFi, and enable the WiFi function. The camera SSID and WiFi password are displayed on the camera LCD.

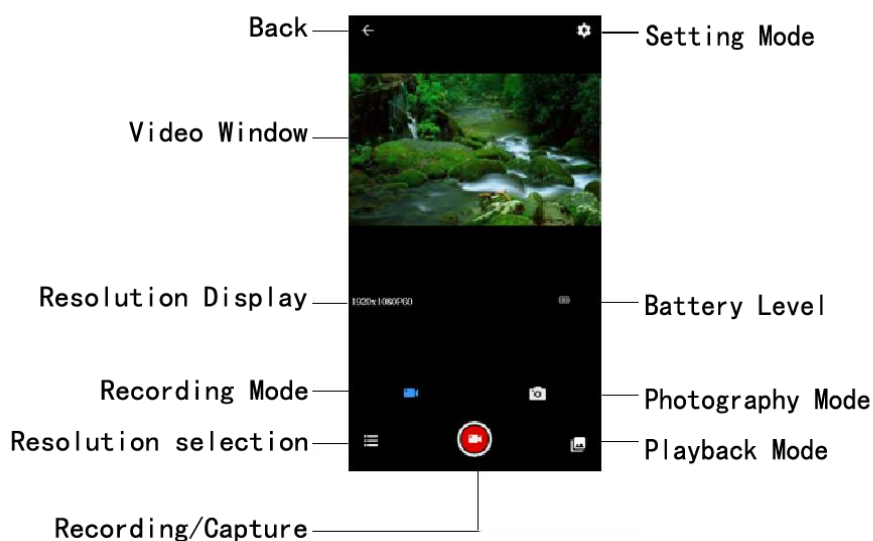
SSID:F2xxxxxxxxxxxxx
PWD:12345678

2. On a smartphone or tablet, touch Settings, select WLAN, find the camera SSID, and enter the WiFi password to enable the smartphone or tablet to connect to the camera.

3. Find the icon on the smartphone or tablet, and touch the icon to open the app. The following figure shows the interface:



4. Touch the "CAMERA" button in the above interface, APP enters preview mode, You can control the DV by APP. The following figure shows the interface:



5.Video and Photo Processing

Touch the "playback mode" button in the above interface, and APP enters the playback interface. In the playback interface, you can preview the video and photos, or download the selected video and photos to the local memory of the mobile phone.

On the home page of APP, you can share videos and photos downloaded into the local memory of your mobile phone after entering the album.

Note:

When playing an online video or a downloaded video on the smartphone, the play procedure may not be smooth or the image may disappear several seconds, because the smartphone memory is insufficient or the smartphone operation speed is low. Select a player that has large memory and quick operation.

When the WiFi function is enabled, the camera provides only the photography and power functions. Other functions are shielded. When the camera is connected to a WiFi network, press the photography button to disable the WiFi function and disconnect the WiFi signal from the camera. In this case, the camera is restored to normal state.

Mic Input

To connect a high-sensitivity microphone to the DV, insert the plug of the microphone into the Mic interface of the DV to record the audio and improve the audio effect.

HDMI Output

To display the images and audios of the DV through to a 4K TV set, using a HDMI cable to connect the HDMI port of the DV to the HDMI port of the TV set. Before connecting/disconnecting the HDMI cable, stop recording/playing. The signal source of the TV set must be switched to the HD mode.

Connecting to a PC

Turn on the camera, use the USB cable to connect it with your computer, then use the W/T button to choose PC Camera mode, then press the PHOTO button to confirm (Please do not press the other button other than the W/T which may cause the camera crashed. In this camera, take out the battery then turn on the camera again).

After you select the MSDC, the DV is connected to the PC and enter to the mass storage mode , In the My Computer window, a removable disk is added. The camera videos are stored in the XDV\Movie directory of the removable disk, and the pictures are stored in the XDV\Photo directory of the removable disk. You can copy the videos and pictures to your PC.

If you select the PCCAM mode, the DV will used for a PC camera to play the live stream.



Note:

During file downloading, do not disconnect the USB connection and do not insert/remove the SD card to avoid data loss. Removing the USB cable will cause the DV to automatically stop.

Specifications

Image sensor	CMOS 13M image sensor
Picture resolution	56M,48M,28M,24M,20M,16M,12M,10M,7M(16:9),5M, 2M(16:9),VGA
SD card	External SD card (4GB to 256GB)
Fill light	Embedded or external IR fill light
IR-CUT	In support of IR-CUT filter
File format	Pictures: JPG Videos: MP4
Video resolution	4K/30fps ,2K/30fps,FHD/30fps,HD/30fps,HD/120fps,FHD/60fps
Delayed selfie	OFF/2s/5s/10s
Digital zooming	16X
White balance	Auto/Day/Cloudy/Fluorescent/Silk
Exposure compensation control	-3.0~+3.0
USB interface	USB2.0
Screen	3.0" IPS capacitive touchscreen
ISO	ISO100/ISO200/ISO400
Power supply	Chargeable lithium battery 1200mAH
Language	Multiple types
Focus	Fixed f=4.88mm
Aperture	F2.2
Auto stop time	30s/1min/2min/3min/5min off
OS requirement	Windows 98, 98SE, ME, 2000, XP, Vista, win7, win10
Size	126 mm ×58 mm × 57 mm
Net weight	295 g (including battery)

Note:

The product specifications are subject to change without notice. The actual camera prevails.

FAQs

The DV cannot be started after the battery is installed.	The battery level is low. Replace the battery.
	The battery package is not removed. Remove the battery package.

	The battery is installed reversely. Check whether the installation direction of the battery electrodes is correct.
The DV cannot shoot pictures and videos after the shutter button is pressed.	The memory is used up. Store the video/picture files to another storage device.
The pictures are blurry.	During photography, hands are shaking. Hold the camera stable with both hands, or put the camera onto a tripod or another support to stabilize the camera. During photography, do not shake the DV.
The pictures or videos are dark.	The light in the ambient environment is insufficient. Ensure that ambient environment has sufficient light, or add a lamp to increase ambient brightness.
The DV automatically stops.	The battery level is low. Replace the battery.
	To save energy, set the camera to automatically stop if it is not operated for a specified period of time, for example, 1min, 3, min or 5min.
The DV files cannot be deleted.	The file protection function of the camera is enabled. Disable this function.
The DV cannot be charged.	If the charging indicator flashes in red, the battery is not installed in the right position or is contacted poor. Reinstall the battery until the charging indicator is steady on. The indicator is off after the battery is fully charged.
	If the charging indicator is off, the charger is not properly inserted. Check whether the charger is normally connected.

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

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 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.

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

The devices has been evaluated to meet general RF exposure requirement , the device can be used in portable exposure condition without restriction