



f500

**Car Camcorder
User Manual**

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About this Guide

The content in this document is for information purpose and is subject to change without prior notice. We made every effort to ensure that this User Guide is accurate and complete. However, no liability is assumed for any errors and omissions that may have occurred. The manufacturer reserves the right to change the technical specifications without prior notice.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital camcorder, 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.

This camcorder 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 camcorder must accept any interference received, including interference that may cause undesired operation.

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

WEEE Notice

Disposal of Waste Electrical and Electronic Equipment and/or Battery by users in private households in the European Union



This symbol on the product or on the packaging indicates that this can not be disposed of as a household waste. You must dispose of your waste equipment and/or battery by handling it over to the applicable take-back scheme for the recycling of electrical and electronic equipment and/or battery. For more information about recycling of this equipment and/or battery, please contact your city office, the shop where you purchased the equipment or your household waste disposal service. The recycling of materials will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and environment.

CE Regulatory Notice

Herewith confirm to comply with the requirements set out in the Council Directives on the Approximation of the Laws of the Member States relating Electromagnetic Compatibility of Radio and Telecom camcorder (1995/5/EC); the Low Voltage Directive (2006/95/EC); the Restriction of The Use of Certain Hazardous Substances in Electrical And Electronic Equipment Directive (2002/95/EC), Turkish EEE Directive; the Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to eco-design requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment, and the Directive 2009/125/EC of the European parliament and of the council establishing a framework for the setting of eco-design requirements for energy-related products.

Notes on Installation

1. Install the camcorder near the rear-view mirror to obtain the best open-field view. Do NOT install the camcorder in a location that will obstruct your required driving view.
2. Make sure that the lens is within the wiping range of the windscreen wiper to ensure a clear view even when it rains.
3. Do not touch the lens with your fingers. Finger grease may be left on the lens and will result in unclear videos or snapshots. Clean the lens on a regular basis.
4. Do not install the camcorder on a tinted window. Doing so may damage the tint film.
5. Make sure that the installation position is not hindered by the tinted window.

Caution

- ❖ Use the authorized charger only.
- ❖ Never disassemble or attempt repair of this product. Doing so may damage the camcorder, cause electric shock and void your product warranty.
- ❖ Never short-circuit the battery.
- ❖ Set up time and date accurately before you use this camcorder.
- ❖ Exposing the camcorder to open flames can cause explosion.
- ❖ Due to local laws and vehicles safety considerations, do not manually operate the camcorder while driving.
- ❖ The values displayed in this system, such as speed, position, and the distance warning to the speed camera set points, may be inaccurate due to the influence of surrounding environment. They are for your reference only.
- ❖ Hewlett-Packard Company is NOT responsible for the loss of any data/content during operation.

Before you start using the Car Camcorder it is assumed that you agree to the above statements.

1 Introduction

Thank you for purchasing this advanced camcorder. This camcorder is specifically designed for real time video and audio recording when driving.

1.1 Features

- Full HD camera (1920x1080 @ 30fps)
- 2.4" LCD color screen
- Up to 140 ° Wide angle lens
- Motion detection
- Automatic Emergency recording for collision detection
- Supports micro-SDHC up to 32GB (Class 6 or greater speed required for HD video recording)

1.2 Package Contents

The package contains the following items. If there are any missing or damaged items, contact your dealer immediately.

Camcorder



Bracket



CD-ROM



Quick start guide

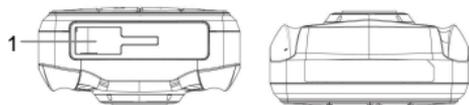


Car adapter



1.3 Product Overview

Top and Bottom Views



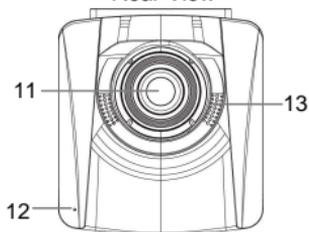
Side (Left and Right) Views



Front View



Rear View



No.	Item
1	Bracket Socket
2	Power Button
3	Memory Card Slot
4	USB Connector
5	HD(Mini HDMI) Connector
6	Back Button (↶)
7	LCD Panel

No.	Item
8	Up Button (▲+)
9	Down Button (▼)
10	Enter Button (OK)
11	Wide Angle Lens
12	Microphone
13	Speaker

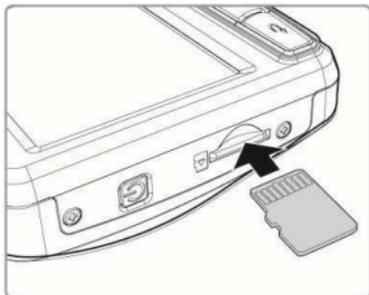
Note:

To operate the camcorder, press the corresponding buttons (6,8,9,10) according to guide icons shown the screen.

2 Getting Started

2.1 Inserting the Memory Card

Insert the memory card with the gold contacts facing the back of the camcorder. Push the memory card until it clicks into place. (Use class 6 or above the micro SD cards for this camcorder; It is recommended to format the micro SD cards before the initial use.)



To remove the memory card

Push the edge of the memory card inward until you hear/feel it click, then allow it to push out until you can remove it from the slot.

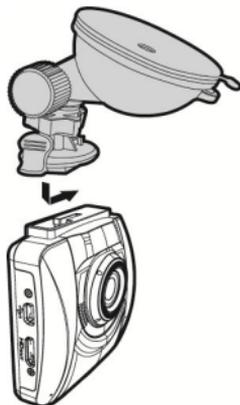
Note:

1. Do not remove or insert the memory card when the camcorder is powered on. This may damage the memory card.
2. It is recommended to use a 32 GB, Class 6 speed or above micro SD card.
3. It is recommended to format the micro SD cards before the initial use.

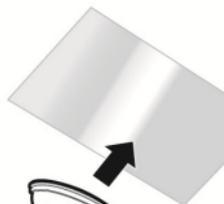
2.2 Installing in Vehicles

2.2.1 Mount to Windshield

1. Attach the bracket to the camcorder. Slide it into the bracket holder until you hear a click.



2. With the suction-cup laying flat, position the suction-cup on the windshield.



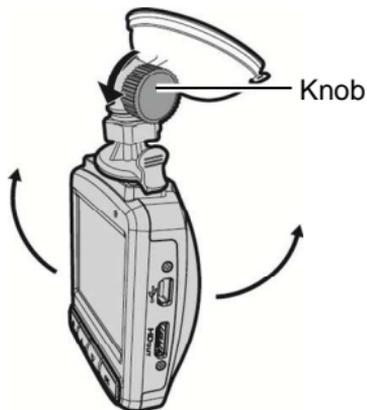
3. Hold the base firmly on the windshield and press down the clamp to mount the car holder to the windshield. Make sure the base is securely locked in place.



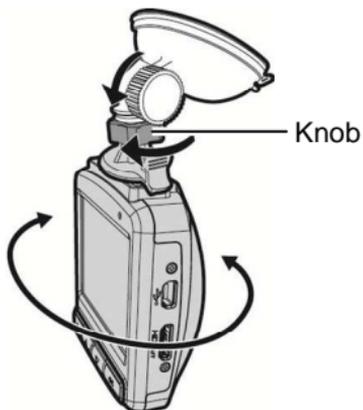
Warning: Do not install the camcorder on a tinted window. Doing so may damage the tint film.

2.2.2 Adjust the camcorder position

1. Loosen the knob to swivel the camcorder vertically.



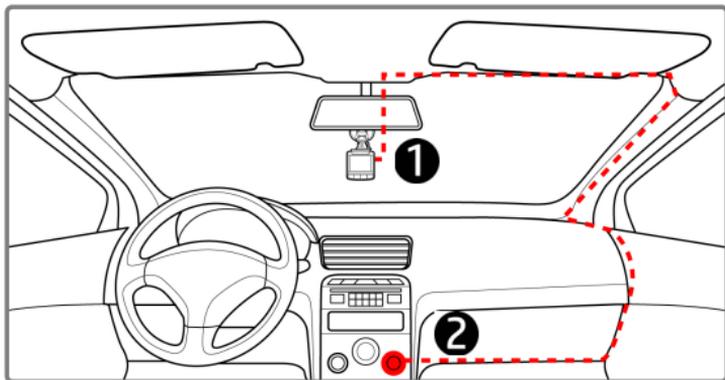
2. Loosen the knob to swivel the camcorder horizontally up to 360°.



3. Then tighten the knob to make sure the camcorder is securely locked in place.

2.3 Connecting to Power

Use only the supplied car adapter to power up the camcorder and charge the built-in battery.



1. Connect one end of the car adapter to the USB connector of the camcorder.
2. Plug the other end of the car charger to the cigarette lighter socket of your vehicle. Once the vehicle engine is started, the camcorder automatically powers on.

Note:

1. The orange LED lights up while the battery is charging.
2. Please take note if the environment temperature reaches 45°C or above, the car adapter still can supply power to camcorder, but it may not charge the battery. This is characteristic of Lithium polymer battery and is not a malfunction.

2.4 Powering the Camcorder On / Off

2.4.1 Auto Power On/Off

Once the vehicle engine is started, the camcorder automatically powers on. If the *Automatic Record* function is enabled, the recording will automatically start right after the camcorder powers on.

See **Set Automatic Recording** (2.5.1).

Once the vehicle engine shuts down, the camcorder automatically saves the recording and turns off the power within 10 seconds.

See **Delay Shutdown** (4.2).

Note:

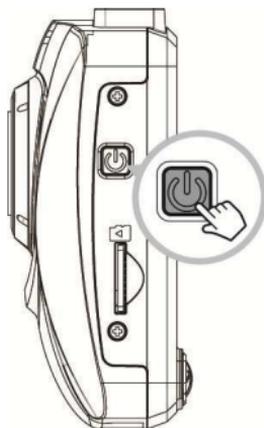
Automatic power up and shut down assumes the power socket is linked to the car ignition.

2.4.2 Manual Power On/Off

To manually turn on the power, press the **POWER** button.

To turn off, press and hold the **POWER** button for at least 2 seconds.

To reset, press and hold the **POWER** button for at least 5 seconds.



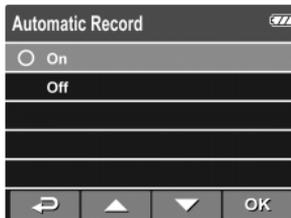
2.5 Initial Settings

Before using the camcorder, we recommend you to enable the **Automatic Record** function and set up the correct date and time.

2.5.1 Set Automatic Recording

To enable the recording to start automatically after you turn on the power, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Automatic Record** and press the **OK** button.
3. Press the  button to select **On** and press the **OK** button.
4. Press the  button to exit the menu.



2.5.2 Set the Date and Time

To set the correct date and time, do the following:

1. Press the  button to enter the OSD menu.
2. Press the  button to select **Date / Time** and press the **OK** button.
3. Press the  button to adjust the value and press the **OK** button to move to another field.
4. Repeat step 3 until the date and time setting is complete.



Note:

When the battery is depleted, you must reset the date/time before the function -automatic record is started. If the user doesn't reset the date/time, the camcorder will give you an alert after one minute and the automatic record will be started .

3 Using the Camcorder

3.1 Recording Videos

3.1.1 Record videos while driving

When the vehicle engine starts up and the *Automatic Record* function is enabled, the camcorder automatically turns on and starts recording.

Recording will automatically stop when the engine is switched off.
Or, press the ▼ button to stop recording manually.

Note:

On some cars, the recording will continue when the engine is switched off.

With some vehicle models, the automatic power up and off feature of this car camcorder will not function because the cigarette lighter/power socket is not linked to the ignition system.

To work around this issue, please do one of the following:

- Manually turn on or off the cigarette lighter/power socket if this is possible with your vehicle model.
- Manually plug in the power adapter into the socket to turn on the car camcorder and unplug from the socket to turn off the car camcorder.

3.1.2 Manual Video Recording

1. Press the OK button to start recording.
2. Press the ▼ button to stop recording.

Note:

1. One video file is saved for every 3 or 5 minutes of recording. See *Using the Menu* (4.1).
2. The camcorder saves the recording on the memory card. If the memory card capacity is full, the oldest file in the memory card will be overwritten.

3.1.3 Emergency Recording

During normal video recording, press the **OK** button to begin emergency recording mode.

The “**Emergency**” message will be displayed immediately on the upper left corner of the screen, and the recorded file will be continuous and protected from being overwritten.

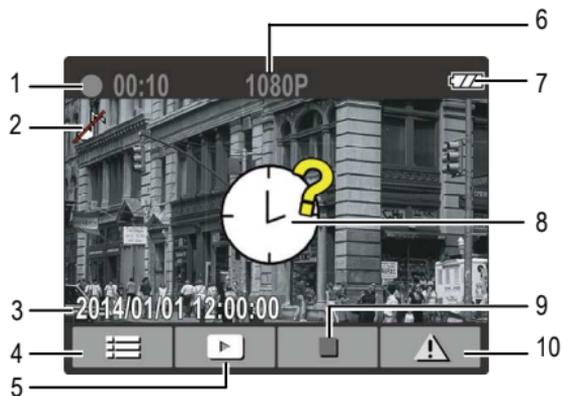
To stop the recording, press the ▼ button.



Note:

1. If the **Collision Detection** function is enabled and a collision is detected, the camcorder will automatically trigger the emergency recording feature.
2. The emergency recording file is created as a new file, which will be protected to avoid being overwritten by normal loop recording. A 4 GB memory card can save up to 5 emergency video files, and 8 GB (or above) memory card can save up to 10 emergency video files. The alert message of “**Emergency files are full**” will pop up on the screen when the emergency recording files are full, and the oldest emergency file will be automatically deleted when a new emergency recording file is created.

3.1.4 The Recording Screen



No.	Item	Description
1	Duration	Indicates the current recording duration.
2	Voice Record	Indicates sound will not be recorded with the video. Enter the OSD menu to enable "Voice Record".
3	Date and time	Indicates the current recording date and time.
4	Guide icon (Menu)	Press the  button to enter the OSD menu.
5	Guide icon (Playback)	Press the  button to switch to Playback mode.
6	Resolution	Indicates the current video resolution.
7	Battery	Indicates the estimated remaining battery power or if it is being charged.
8	Prompt : reset of date / time	Prompt : NOT reset of date / time
9	Guide icon (Stop)	Press the  button to stop the recording.

10	Guide icon (Emergency)	Press the OK button to continuously record the video in one file until the recording is manually stopped.
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3.1.5 Taking Photographs

You can also use this camcorder to take photos of the current scene.

From the standby screen, press the ▼ button to take a photo.

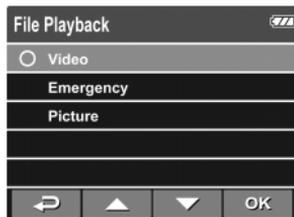


Note:

If recording is in progress, press the ▼ button to stop the recording first.

3.2 Playback Videos and Photos

1. If recording is in progress, press the ▼ button to stop recording. The standby screen is displayed.
2. Press the ↶ button to enter the OSD menu.
3. Press the ▲/▼ button to select the file category that you want to browse and press the OK button.
4. Press the ▲/▼ button to view the next or the previous file and press the OK button to view the file in full screen.



Note:

From the standby screen, you can directly enter Playback mode by pressing ▲ button. The last recorded video will display on the screen.

3.2.1 Playing Videos

To play videos, do the following:

1. If recording is in progress, press the ▼ button to stop recording.
2. Press the ↶ button to enter the OSD menu.
3. Press the ▲/▼ button to select **File Playback** and press the OK button.
4. Press the ▲/▼ button to select **Video** or **Emergency** and press the OK button.
5. Press the ▲/▼ button to browse for the desired video file and press the OK button to play the video.
6. Press the OK button to pause the playback. Press it again to resume.



3.2.2 Viewing Photos

To view photos, do the following:

1. If recording is in progress, press the ▼ button to stop recording.
2. Press the ↶ button to enter the OSD menu.
3. Press the ▲/▼ button to select **File Playback** and press the OK button.
4. Press the ▲/▼ button to select **Picture** and press the OK button.
5. Press the ▲/▼ button to browse for the desired photo file and press the OK button to view the file in full screen.

3.2.3 The Playback Screen

Video Playback Screen



Photo Playback Screen

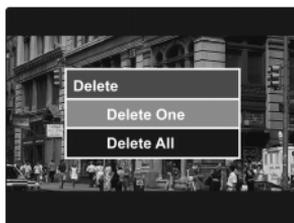
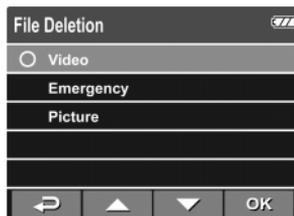


No.	Item	Description
1	Date and time	Indicates the recorded date and time.
2	Guide icon (Back)	Press the ↶ button to return to file selection display.
3	Guide icon (Previous)	Press the ▲ button to view the previous video/photo.
4	Guide icon (Next)	Press the ▼ button to view the next video/photo.
5	Guide icon (Pause)	Press the OK button to pause the video playback.
6	Duration	Indicates the elapse time.
7	Battery	Indicates the estimated remaining battery power.

3.2.4 Deleting Files

To delete file(s), do the following:

1. If recording is in progress, press the ▼ button to stop recording.
2. Press the ↶ button to enter the OSD menu.
3. Press the ▲/▼ button to select **File Deletion** and press the **OK** button.
4. Press the ▲/▼ button to select the file category and press the **OK** button.
5. Press the ▲/▼ button to select the file that you want to delete and press the **OK** button to enter the Delete menu.



6. Press the ▲/▼ button to select an option.

Item	Description
Delete One	Delete the current displayed file.
Delete All	Deletes all files.

7. Press the **OK** button to confirm delete.

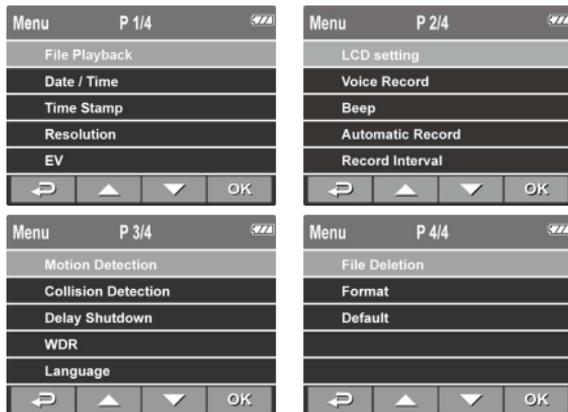
Note:

Deleted files CANNOT be recovered. Ensure the files have backup before deletion.

4 Adjusting the Settings

4.1 Using the Menu

You can customize the video recording and other general settings via the on-screen display (OSD) menus.



1. If recording is in progress, press the ▼ button to stop recording.
2. Press the ↶ button to open the OSD menu.
3. Press the ▲/▼ button to select a menu option and press the OK button to enter the selected menu.
4. Press the ▲/▼ button to select the desired setting and press the OK button to confirm the setting.
5. Press the ↶ button to exit the menu.

4.2 Menu Tree

Refer to the below table for details on menu items and available menu options.

Menu option	Description	Available option
File Playback	Select the file category that you want to view.	Video / Emergency / Picture
Date / Time	Set the date and time.	Press ▲/▼ button to adjust the value, press the OK button to switch the field and confirm.
Time Stamp	Enable/Disable the date stamp.	On / Off
Resolution	Set the desired video resolution.	1080p (1920x1080) / 720p(1280x720)
EV	Set the exposure compensation.	Press ▲/▼ button to set the exposure level. You may customize it between -1.3~+1.3.
LCD Setting	Set the duration for the display to automatically turn off right after video recording starts.	On / Turn Off After 30 sec. / Turn Off After 3 min. / Off
Voice Record	Enable or disable sound recording with the video.	On / Off
Beep	Enable/Disable the alarm tone.	On / Off/1/2/3/4/5
Automatic Record	Enable / Disable the camcorder to automatically record video after the camcorder is turned on.	On / Off
Record Interval	Set the recording duration for each recorded video file.	3 min. / 5 min.
Motion Detection	Enable/Disable the motion detection. If this function is enabled and the power	On / Off

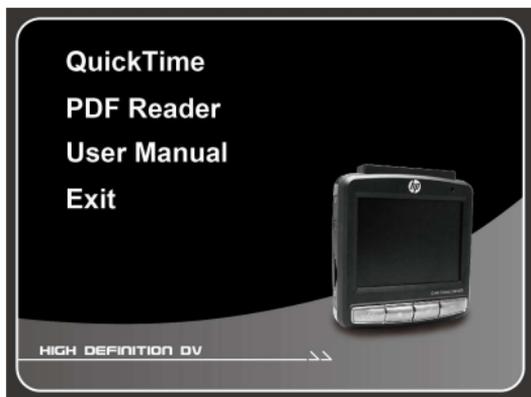
Menu option	Description	Available option
	<p>button is pressed, the system alert message, “Press OK Key to Power off, or enter motion detection after 10sec.”, will pop on the screen. Under motion detection mode, the camcorder will automatically start recording when any object movement is detected.</p>	
Collision Detection	<p>Enable / Disable the collision detection. If this function is enabled and any collision is detected, the camcorder will automatically trigger the emergency recording feature.</p>	<p>High Sensitivity / Normal Sensitivity / Low Sensitivity / off</p>
Delay Shutdown	<p>Set the delay duration before turning off the power.</p>	<p>10 sec. / Off</p>
WDR	<p>Present a crisp and clear picture quality with harmonious contrast in a high contrast, high discrepancy environment.</p>	<p>On / Off</p>
Language	<p>Set the on-screen display menu language.</p>	<p>English / 繁体中文 / 简体中文 / 한국어 / 日本語 / Русский / Deutsch / Français / Italiano / Español / Português / Türkçe</p>
File Deletion	<p>Delete the file(s) Warning: Once a file is deleted, it</p>	<p>Video / Emergency / Picture</p>

Menu option	Description	Available option
	CANNOT be restored or recovered.	
Format	Format the memory card Warning: Once the memory card is formatted, ALL content on the micro SD card will be deleted and CANNOT be restored or recovered.	Yes / No
Default	Reset all options to the default settings.	Yes / No

5 Installing the Software

1. Place the CD disc bundled with the car camcorder in your PC/Laptop optical drive.
2. If the CD does not execute automatically, please use Windows File Manager to execute the **Install_CD.exe** file in the CD.

The following screen will be displayed.



3. Select the desired [Menu] item to start the installation process according to the instructions on-screen.

6 Specifications

Item	Description
Image sensor	1/3" CMOS sensor
Effective pixels	1920 (H) x 1080 (V)
Storage media	Supports Micro SDHC, up to 32GB class 6 or above
LCD display	2.4" LCD color TFT (112K pixels)
Lens	Wide Angle Fixed Focus lens Aperture: Up to F1.9 ; f=3.8mm
Focus range	1.5m~Infinity
Movie Clip	Resolution: Full HD (1920 x 1080), 30fps
	Format: MOV
Still image (Photograph)	Resolution: 2M (1920 x 1080)
	Format: DCF (JPEG, Exif: 2.2)
Shutter	Electronic shutter Auto:1/2 ~1/2000 sec.
G-Sensor	3-Axis G-Force sensor
ISO	Auto
White Balance	Auto
Microphone	Yes
Speaker	Yes
Interface	Mini USB, Mini C Type HDMI
Battery	Built-in 470mAh Li-polymer rechargeable (This battery is NOT replaceable)

Item	Description
Operating Temperature	-10° ~ 60° C
Operating Humidity	20 ~ 70% RH
Storage Temperature	-20° ~ 80° C
Dimensions	70 x 63 x 31.3 mm
Weight	Approx. 90g