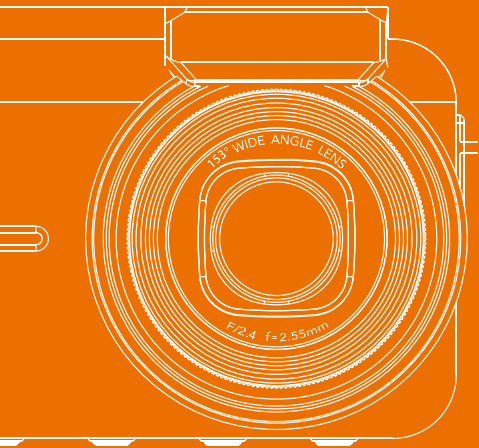




 WAYLENS

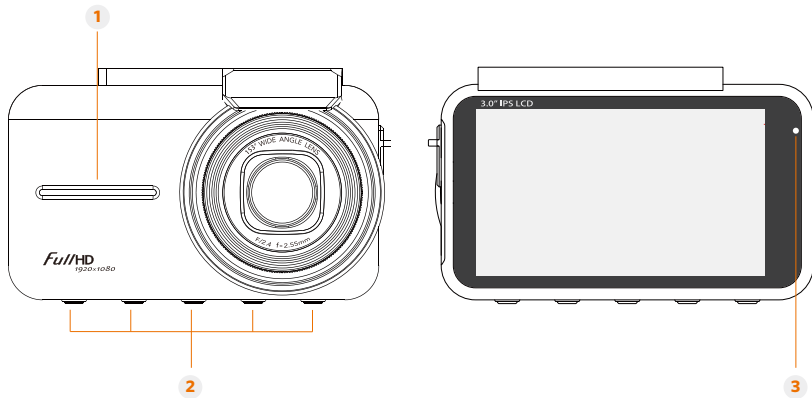
TW03

USER GUIDE





PRODUCT OUTLOOK



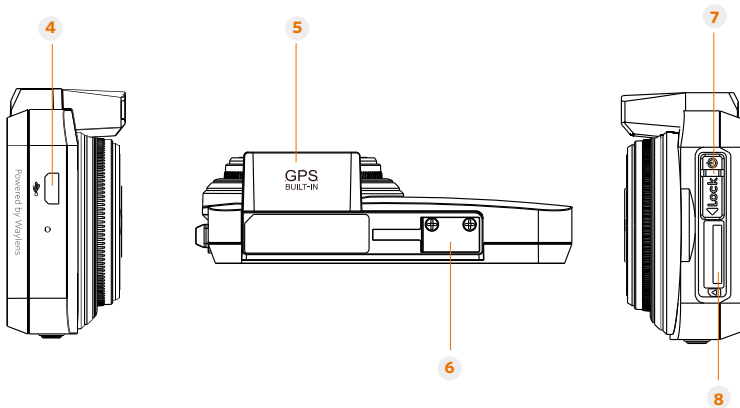
1 Speaker

2 Function Buttons

3 Power/ Record Indicate



PRODUCT OUTLOOK



4 Mini USB

5 GPS Module

6 Mount Interface

7 Power Switch

8 SD Card Slot



PRODUCT INFORMATION

Model Name	TW03	
Product Size(LxWxH)	57*27*56mm	
Color type	Black	
Image sensor	Sensor	Front:1/2.9",2M
	Lens	Front:H: 127°, V: 66.5°, D: 153° +/- 5% fixed focus lens,6G+1IR; F2.4 +/- 5%
LED	LED Indicator	1 Dual color LED (Red, Green),
Audio	Input/Output	Built in Microphone, built in speaker
	Audio compression	ACC
	Speaker	Speaker*1 (1W) (Use TW02 Audio codec IC ES8374)
	Microphone	Built-in Microphone



PRODUCT INFORMATION

Panel	Display Option	3" LCD (16:9), IPS
	Interface	RGB 565 interface
	Flat Touch Panel	NA
GPS MODULE+Antenna	Chip	Yes, ASIR-ASA-1818R
	GPS Sensitivity	Cold start 35s -130dBm
	GPS Antenna	Patch Antenna 18.1x18.1x6.5mm
Gsensor	Axis	Built-in, 3-Axis G-Force Sensor
Sound Effect		YES (UI)
Exposure	Control	Auto
	EV Compensation	YES
	ISO Equivalent	Auto



PRODUCT INFORMATION

Capture	Still Image	Scene Mode:NA
		Resolution:2M
		White Balance:Auto
	Movie Recording	Size and Frame rate:1920 x 1080 @ 30fps
	Memory Card	External Memory: Micro SD, up to 128GB
	File Format	Movie Clip:Normal mode: .ts (H.264+ADPCM codec)
WiFi	YES	WiFi 802.11 a/b/g/n/ac 2.4G + 5G (Realtek RTL8821CU)6221E-UUC *1
Bluetooth	Bluetooth 4.2	Build in WiFi module *1

***1:** Multiple antennas information : 2.4G wifi use an intergral antenna to transmit and receive, 5G wifi & BLE use a same intergral antenna to transmit and receive.



PRODUCT INFORMATION

Interface	USB	USB 2.0 High speed 10 pin mini-USB Connector
Power	Battery type	Super capacitor, 7F (2.5V) x 2
	Charger protect	YES
	Adaptor type	Front Channel:Car Cigar Power Charger (Input : 10V-30V/1A ; Output 5V/1.5A ; 10 pin mini-USB Connector (8th Pin enable to have Adapter-in detection Low =5V/1.5A High =5V/0.5A) (TBD)
	Power saving	User setting (LCD)
	RTC	YES(3~7 days)
Buttons	Front channel	6keys(5function keys+1 power on/off slide switch)



PRODUCT INFORMATION

Enviroment	Operating temperature	System: -20~+60°C
	Operating humidity	10% ~ 85% (non-condensing)
	Storage temperature	-20~+80°
	Storage Humidity	10% ~ 85% (non-condensing)
UI language	UI language	English
Firmware	FW update	FW upgrade via SD card



FCC NOTE

FCC CAUTION

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

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.



FCC NOTE

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not operate in conjunction with any other antenna or transmitter.

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