HC302 User Manual

Dash cam

1. Basic Equipment

CPU	SA230D
Pre- Sensor	GC4653 (Customer choice)
After Sensor	1080P Sensor (customer optional)
Reversing Image	support
Display	3.16-inch high-definition IPS screen 800 * 268 resolution (customer choice)
DDRM	2G bit
SPI NOR Flash	16 M Bytes
Audio	Yes, support recording
G Sensor	Support (customer optional)
GPS	Support (customer optional)
WIFI	5G mode
RTC	Yes, built-in system clock
Memory Card	SDHC Class 10 (8GB ~ 128GB), speed C10 or above
Key	5 Key
Compression format	H264
File Format	The image file format is TS, the photo format is JPG
Electronic Dog	Support (Speed Anda) (Customer choice)
Voice control	Support (Speech Chinese and English) (customer selection)
algorithm	Support ADAS, BSD, LCA
Operating temperature	-20-65 ℃ (Storage temperature: -30-70 ℃)
Working current	5V 900ma (need car charger 5V 1.5A)
RTC quiescent current	2uA (A button battery can be used for 1 month after fully charged) (Customer's choice)
Static current of the whole machine	6mA

2. Introduction to main functions

Photography Mode

When a TF card is inserted into the machine, it will automatically enter the video recording mode after it is turned on. During recording, a logo will flash in the upper left corner of the screen.

Short press the power button to take a photo, long press to shut down;

Short press the menu button (M button) to enter the main interface;

When recording, short press the up button to switch the front and back windows, and long press to turn on/off Wi-Fi ;

Short press the button to add/unlock the video recording, long press to turn on/off the recording;

Short press the OK button to turn on/off recording;

Intelligent driving mode

After powering on, enter the automatic recording mode, short press the M button to enter the main interface, short press the up/down button to select smart driving, and short press the OK button to enter the smart driving settings. After turning off the automatic calibration, short press the up/down button to select the advanced driving assistance system, and short press the OK button to enter the advanced driving assistance system calibration interface (as shown in the figure)

The lines in the image correspond to the arrows of the same color on the right. Short press the M button to save the setting and return to the smart driving mode interface. Short press the OK button to switch the lines (color arrows). Short press the up button (left) to adjust the lines. Short press the down button (right) to adjust the lines.

Advanced driver assistance system settings
- ➢ Front collision warning: high, medium, low, off
- ➢ Lane change crossing warning: high, medium, low, off
- ➢ Pedestrian collision warning: high, medium, low, off
- ➢ Front vehicle start warning: high, medium, low, off
- ➢ Close distance warning: high, medium, low, off
- ➢ Alarm tone: Off, On
- ➢ Lane lines and boxes display: Off, On

After powering on, enter the automatic recording mode, short press the M button to enter the main interface, short press the up/down button to select smart driving, and short press the OK button to enter the smart driving settings. After turning off the automatic calibration, short press the up/down button to select rear blind spot and lane change

warning, and short press the OK button to enter the rear blind spot and lane change warning calibration interface (as shown in the figure)

The yellow boxes in the image are the lane warning areas on both sides. Short press the up button to adjust the dot upward (left), short press the down button to adjust the dot downward (right), short press the OK button to switch the dots, long press the OK button or the M button to switch the direction, short press the M button to save the settings and return to the smart driving mode interface; the red area is the rear blind spot warning area and cannot be adjusted.

Rear blind spot and lane change warning settings

- Alarm sensitivity: high, medium, low Lane change warning: high, medium, low, off
- Speed threshold: 0km/h, 30km/h, 50km/h, 80km/h, 100km/h,
- Alarm tone: On, Off
- Close distance warning: high, medium, low, off
- Alarm area and prompt box: Close, Open

Playback Mode (File Management)

After booting up, it will start recording automatically. After stopping recording, short press M to enter the main interface and select file management. In the file list interface, short press M to return, short press the up button to select the upper file, short press the down button to select the lower file, short press OK to confirm/play the file, long press the up button to add/unlock the file, long press the down button to delete the file; when playing a file, short press M to exit the playback, short press the up button to switch the file to play, short press the down button to switch the file to play, short press OK to start/pause the file

Note: Currently, ordinary files occupy 70% of the total card capacity, locked files occupy 30% of the total card capacity, and 200 picture files are recorded before and after. When the file capacity is reached, they will be deleted in a loop.

System Settings

After booting up, it will enter automatic recording. After stopping recording, short press the M key to enter the main interface and select system settings.

- Video resolution: 1080P, 2.5K, 4K
- Loop recording: 1 minute, 2 minutes, 5 minutes
- Light source frequency: 50Hz, 60Hz
- Gravity sensor sensitivity: Off, Low, Medium, High
- Parking monitoring: Off, Low, Medium, High
- Time-lapse video: Off, 1FPS/S, 2FPS/S, 5FPS/S

- ➢ Time-lapse recording duration: 12 hours, 24 hours, 48 hours, 72 hours
- ➢ Recording: Off, On
- ➢ Video watermark: Off, On
- ➢ WDR: Off, On
- ➢ No light night vision: Off, On
- ➢ Rear camera preview image settings: keep original image, upside down, mirror image, upside down and mirror image
- ➢ Volume settings: 0, 1, 2, 3, 4
- ➢ Key tone: Off, On
- ➢ Screen saver: Off, 1 minute, 5 minutes
- ➢ Speed unit: km/h, mph
- ➢ Time zone selection: GMT-12:00~GMT+13:00
- ➢ Language settings: English, Simplified Chinese, etc.
- ➢ Display time and date: Off, On
- ➢ WiFi frequency band: 2.4GHz, 5.8GHz
- ➢ WiFi information: turn off/on and display account and password
- ➢ Time setting: RTC system time
- ➢ Disk formatting: Confirm, Cancel
- ➢ Version information: system version number
- ➢ Restore factory settings: Confirm, Cancel

Note: If the recording resolution is set to 4K and ADAS is turned on, the resolution will automatically switch to 2.5K; if the resolution is set to 4K after ADAS is turned on, ADAS will be automatically turned off.

Note: Long press the power button on any screen to shut down the device.

3. Notes

1. Note: Please do not remove or insert the TF card when the machine is working to avoid damage.

2. Please pay attention to the direction of TF card insertion. If it is inserted upside down, it may damage the machine and TF card.

3. When you insert the TF card into the machine, the machine will set the TF card as the default storage device, and the data in the original TF card may not be read.

1， If the TF card is incompatible with the machine, please reinsert it or try again with another TF card.

2， Support up to 128G

3， Temperature range -20~70 °C

If the recorder shows that the card is full or the card is wrong, it cannot record:

1. Check whether the G-sensor sensitivity is set to high. If the sensitivity is set too high, the vehicle will shake and the machine will be locked during driving, which cannot be overwritten. If too many locked files accumulate, the memory card will be full and the video will not be recorded.

2. When using a new card on the machine for the first time, it must be formatted on the machine before use.

3. If it prompts card error or no card after inserting the card, it is recommended to reinsert the TF card and format

it. If it still doesn't work, take the card to the computer to see if it can be formatted. If not, the card is broken.

Ⅳ. System error message definition

Error message	describe	Workaround
No card inserted	No memory card detected, unable to record	Please insert the card
No files	1 No SD card inserted 2 No file	Insert the card to record video or take photos
Card error / Please format	Incorrect card format	Enter the menu to format the SD card
SENSOR FAIL	Sensor initialization error occurred and video recording failed	If the problem persists, please contact your dealer for repair.
SD card is full	Insufficient remaining space when taking photos Displayed when taking photos	Please delete or unlock some files to free up space

5. WiFi Instructions

1. Install the mobile app
Select a commonly used mobile phone to scan the device WiFi information QR code or search for
Recorder on your mobile phone to download and install
2. WiFi mobile phone connection
    1)   WiFi information in the device system settings and turn on WiFi

    2)   WiFi on your phone , find the WiFi name: H30D-E42AEF37, enter the password:
        12345678 to connect
        Note: One recorder can only be connected to one mobile phone at a time.
  3. APP operation
    1)   Open the APP, add the recorder, and enter the recorder preview interface after adding
        successfully according to the steps

X2K6

CARDV-339-da21
▢ Recording Started

Access Camera

▶ Camera ⊡ Album ☺ More

Video

Sound Recording ●

Video Resolution 4K+1080P ›

Loop Recording Duration
The duration of each recording, if the memory card
is full, it will automatically be overwritten from the 1 Minute ›
earliest video

Time Watermark ●

Advanced

Collision Sensing
When the camera is in recording mode, it will
automatically lock current video when a impact is Low ›
detected

Automatic Screen Off Time
The time is up to turn off the screen to avoid affecting
driving, and the video will continue to be recorded and Off ›
stored

Key Voice ●

Voice Control
Turn on to accept voice commands ●

Parking Mode (Hardwire Kit Required)

Parking Guard
Parking Monitor Motion Detection ○

Frame Rate of Time-lapse Video
Choose the suitable frame rate to run the time-lapse Off ›
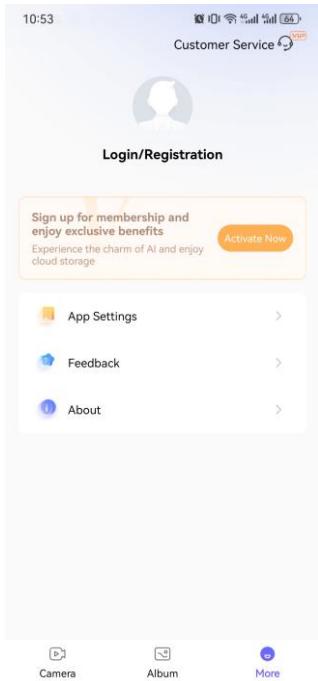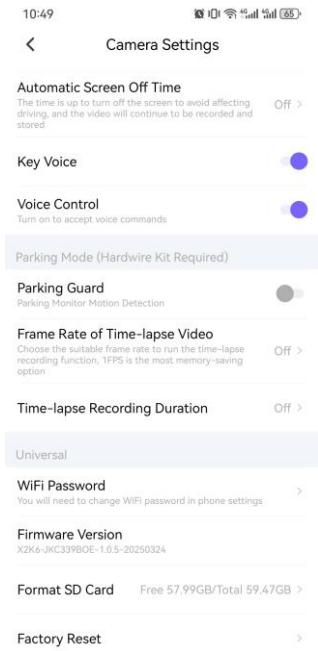
2) Playback interface

Click on the preview image to enter playback mode

Long press the preview image to select batch download or delete files

Note: The playback resolution of videos that have not been downloaded is low. It is recommended to download them before playing.

4. Other Notes

WiFi cannot be connected: Make sure the recorder is turned on or connected to another mobile phone (only one mobile phone can be connected at the same time)

The recorder cannot record: Check whether the SD card is full or damaged. You can format the SD card or replace the SD card for troubleshooting.

The APP screen is not smooth or real-time: Try to keep the background software of the mobile phone as few as possible, and bring the mobile phone close to the recorder, and close the APP and restart it (Wi -Fi channels compete for bandwidth, and adjacent channels interfere with each other)

The image quality is not clear: Check the camera lens and the car windshield for stolen objects

This system supports up to 128G Micro SD memory cards. In order to keep the video recording smooth, it is recommended to use a Class 10 or higher high-speed card. At the same time, do not insert or remove the SD card when the system is turned on to avoid damage to the SD card.

SD cards are consumables , so please maintain them regularly , such as formatting them every 1 to 2 months .

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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 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 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 & your body.