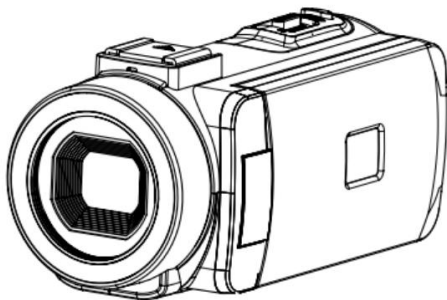# 4K
ULTRAHD
Camcorder

Instruction Manual

Preface

Thank you for purchasing this digital video camera.Before use,please read this manual carefully.Keep this manual in a safe place for future reference.

The latest information at the time of compiling this manual is used for reference for the content of this manual.The screen displays,illustrations and other information adopted in this manual are to visually elaborate the operation of the video camera. Depending on different technology development and production batches, it may be slightly different from the digital cameras you actually use.

Disclaimer notice: Considerable effort has been made to ensure that this manual isfree of inaccuracies and omissions. However, there is no guarantee that there will be no errors or omissions in this manual.

Safety Precautions:

(1) Do not disassemble or modify the product.

(2) Please stop operating camera immediately if there are smoke or unpleasant smell on any parts of camera, otherwise it may cause fire or electric shock. Turn off camera immediately and remove camera's battery or unplug power cord from electrical outlet. Make sure the camera has stopped emitting smoke or unpleasant smell.

(3) Do not expose or immerse the camera to water or other liquids. This camera is not waterproof. Please dry with a soft cloth if the case is exposed to liquid or salt water. Turn off camera immediately and remove camera's battery or unplug

power cord from electrical outlet if water or other materials immerse into the camera.

(4) Do not trigger the flash in close to human or animal eyes. Your eyesight may be damaged when facing a strong light source if the distance is too close. Please pay special attention to keep more than 1 meter (39 inches) away from baby.

(5) Keep the camera and battery out of the reach of children.

(6) Do not heat the battery or expose it to sources of ignition, otherwise it may explode.

Appearance Description

Buttons and Indicators

Buttons/ Indicators	Functions
POWER（OK）	1.Power on and off 2.It functions as confirmation in menus 3.When power is on, press it will turn on the infrared light/fill light, and then press it again will turn off
MODE	Switch the mode interfaces
MENU	Enter or exit the menus
UP	1.Upward 2.Long press it to open WIFI (shortcut key),and then press again to shut it off.
DOWN	Downward
W / T	T : zoom in(When selecting the mode, press it to move to the right) W : zoom out(When selecting the mode, press it to move to the left)
PHOTO	Take photo
Video START/STOP	Start or stop recording video
Indicator light (BUSY/ CHG)	1.BUSY:working indicator light. 2.CHG:charging indicator light(the indicator light will be on when connected with a charger.It will turn off when the power is full.)
Hot shoe	For the installation of the connector of external microphone or fill light
MIC	External microphone interface
HD	TV interface

USB	Data cable interface

Getting started
Battery installation/Charging batteries

This camera uses high capacity rechargeable external lithium battery. Please put the battery into the battery slot correctly according to the battery and battery compartment slot.
The following symbols indicate the current remaining battery power.

icon	Remaining battery power
▥	60%-100%
▣	30%-60%
▤	5%-30%
⚡	≤5%

When the battery logo is red, it means the battery needs to be charged. Please charge it in time, otherwise it may shut down automatically due to low battery.
(1)Charge with the camera, connect the power adapter and camera with the USB cable, and plug in the power to charge. When charging, the red light is always on, and when it is fully charged, the red light is off. (Tips: charging in the off state, the battery will fill faster)
(2)Charge the battery with a standard external charger and put the battery directly into the charger.

(3) Battery charging time (estimated)

In the normal environment, it takes 3 hours to be fully charged.

(4) Continuous working hours (estimated)

When [system] is set to 4K and all other settings are factory default settings, it can work for 1.5 hours.

When [system] is set to 1080p and other resolutions, and all other settings are factory default settings, it can work for 1.5 hours.

Note: The battery is recommended to start charging in a temperature range of 10 °C to 30 °C.   At a lower temperature, the battery may not be able to or need more time to be fully charged. When charging at a high temperature, it may shorten battery life.
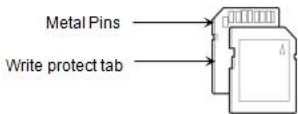
The fully charged battery will naturally consume electricity. In order to ensure sufficient power, charging in advance is recommended.

When the camera is not used for a long time, please charge the battery every 3 months. Then let the battery discharge to maintain the battery life.

Memory Card

This camera can use: SD card (SDHC card and SDXC card). It supports up to 256G.

As indicated aside from the card slot, insert the SD card into the card slot with the metal pins towards inside. Remove the card by pressing down.

Metal Pins

Write protect tab

1>SD card of Class 10 or higher is required.
2>Memory cards of SanDisk, Samsung, Panasonic are suggested to be used. Other memory cards may cause recording failure or data loss.

Recording Time of the Memory Card (Estimated)
The estimated recording time is just for reference and the specific time may be different depending on the memory card and battery condition.
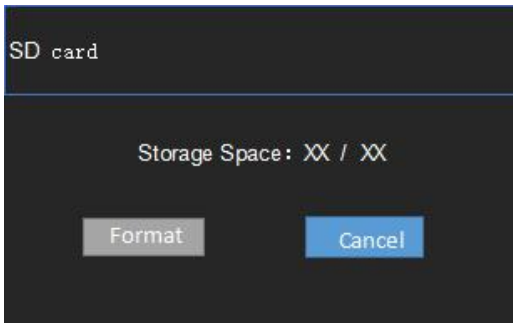
System	4K	2.7K	1080P		720P		
FPS	30FPS	30FPS	60FPS	30FPS	120FPS	60FPS	30FPS
16G	45	80	80	160	80	160	160
32G	90	170	170	300	170	300	300
64G	180	350	350	620	350	620	620
128G	360	720	720	1320	720	1320	1320
256G	720	1440	1440	2640	1440	2640	2640

Unit: Min

Note: If there are documents not recorded by this camera or saved by PC in the memory card, the recording time may be reduced or data may be unable to record properly.

Format memory card

A memory card first used in this camera is recommended to be formatted, or failure, such as, inability to record may occur. When first using a memory card in this camera, the format window will pop up automatically. As shown in the figure:

You can also enter the system menu of this camera—sub-menu: Format, press OK button, enter the format window in the above figure to carry out formatting. You can also format the memory card on your computer.
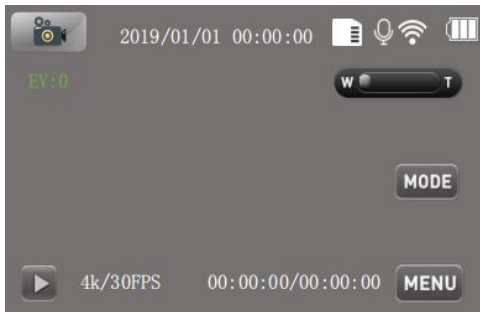
_____

Notes:
- Turn off the power before replacing card.
- Insert card in the right direction.Do not insert the card too hard to damage the card or camera components.If the card is not inserted,please check whether the direction is right or not.
- Format the card when the card is first used or used in other video cameras.

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Open Monitor

(1) The camera will be turned on by opening the LCD monitor.

(2) When the power is off, press the "POWER" button for 1 second and the camera will turn on.

(3)Boot screen display(Notes：Boot screen mode defaults to the last set mode)
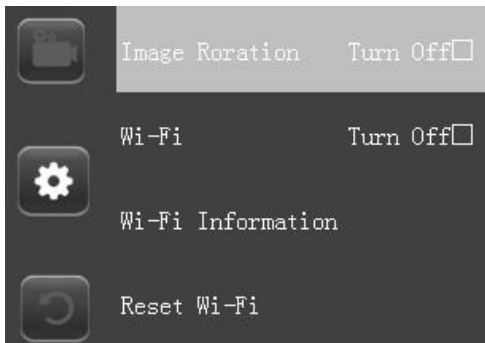

System menu setup

(1)Set date/time

Press the MENU button, then press the MODE button to enter the system menu 🔧, then press the UP button or the DOWN button to move the cursor, select the time setting/date setting sub-menu, and press the OK button to enter the setting. After setting, press MODE to exit.

(2)Language setting

Press MENU (Menu button), then press MODE (Mode button) to enter the system menu, then press UP or DOWN button to move the cursor, select the language sub-menu, press OK button to enter the setting.

(3)System menu setting directory

Sub-menu	Menu content
Image Rotation	Turn On/Turn Off (Press OK to switch)
Wi-Fi	Turn On/Turn Off (Press OK to switch)
Wi-Fi Information	Press OK to view Wi-Fi ID and password
Reset Wi-Fi	Confirm / Cancel
Light Source Frequency	Auto/50Hz/60Hz

LED Indicator	Turn On/Turn Off (Press OK to switch)
Auto Screen Saver	Turn Off/30s/1min/2min
Auto Power Off	Turn Off/3min/5min/10min
Button Sound	High/Middle/Low/Turn Off
Startup Music	Open/Close
Language	Simplified Chinese/traditional Chinese/English/Japanese/Korean/Russian/German/French/Italian/Spanish/Portuguese/Thai
Time Format	YYYY/MM/DD MM/DD/YYYY DD/MM/YYYY
Time Set	hour minute second
Date Set	Year month day
Format	(SD Card)Format/Cancel
Device Info	Product model and version number
Factory Reset	Confirm/Cancel

Record video/Take photo
Record video/take photo must select the mode.
Record video mode: Video, Slowly, Loop, Lapse
Take photo mode: Photo, Auto, Burst, Timer
PlayBack

Mode Select

| Video | Slowly | Loop |
| Lapse | Photo | Auto |

Mode Select

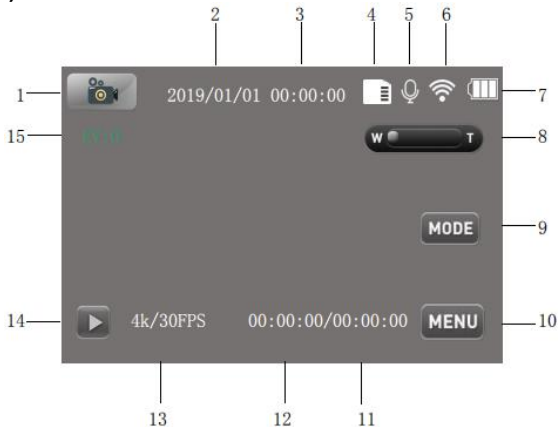| Lapse | Photo | Auto |
| Burst | Timer | PlayBack |

Mode selection: You can press the MODE button to enter the mode menu, press the UP/DOWN button (or W/T button), move the cursor left or right to select the mode, press the OK button to confirm the mode, then press the recording button to start recording, or press Photo button to start taking pictures.

After turn on, you can directly press the recording button to

start recording, or take a photo with Photo button (Note: The recording/photo mode defaults to the last selected mode)

(1)Video mode

1: Current is the video mode
2: Current system date
3: Current system time
4: The memory card is installed in place
5: Current microphone is turned on
6: Current WIFI mode is turned on
7: Current remaining battery power
8: Zoom in/Zoom out
9: Mode menu button
10: Main menu button
11: Current memory card remaining recording time
12: Current recorded time
13: Current video resolution
14: Playback button
15: Exposure value

Menu setting contents in video mode (In this mode, press MENU directly to set the corresponding menu)

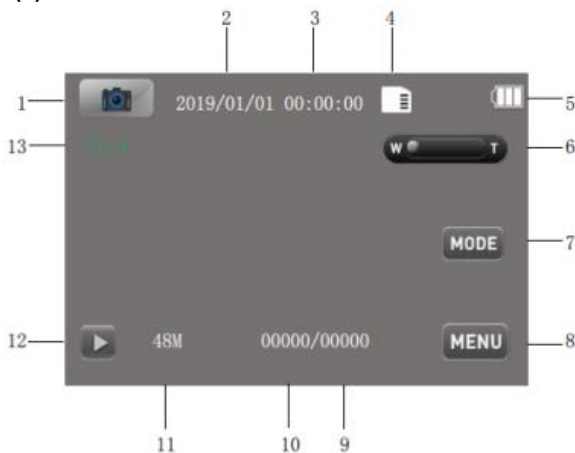| Sub-menu	Menu content
Video Resolution	4K 30FPS/2.7K 30FPS/1080P 60FPS/1080P 30FPS/720P 120FPS/720P 60FPS/720P 30FPS
White Balance	Auto/Sunny/Cloudy/Incandescent/Fluorescence
Exposure Setting	-3/-2/-1/0/1/2/3
Metering Mode	Average Metering/Center Metering/Spot Metering/Matrix Metering
Sharpness	High/Middle/Low
Video Quality	High/Middle/Low
ISO	Auto/100/200/400/800/1600/3200/6400
Time Watermark	Turn On/Turn Off (Press OK to switch)
Record Audio	Turn On/Turn Off (Press OK to switch)

Video pause

This camera supports video pause. During the recording, press the Photo button, the recording is stopped and press the Photo button again, the recording is continued. If pressing the Record button again, the recording will end.

Tips: The recorded long video will be saved in the memory

card in sections, and the document name is
0000X—0000X.

(2)Photo mode

1: Current is the photo mode
2: Current system date
3: Current system time
4: The memory card is installed in place
5: Current remaining battery power
6: Zoom in/Zoom out
7: Mode menu button
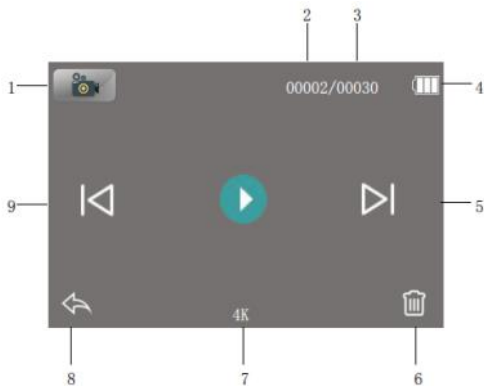8: Main menu button
9: Current memory remaining storage

10: Current stored quantity

11:Current video resolution

12: Playback button

13: Exposure value

Menu setting contents in photo mode

Sub-menu	Menu content
PixelInset	48M/30M/24M/20M/12M/8M/5M/3M
White Balance	Auto/Sunny/Cloudy/Incandescent/Fluorescence
Exposure Setting	-3/-2/-1/0/1/2/3
Metering Mode	Average Metering/Center Metering/Spot Metering/Matrix Metering
Sharpness	High/Middle/Low
Long Exposure	Auto/2S/5S/10S/15S/20S/30S
ISO	Auto/100/200/400/800/1600/3200/6400
Time Watermark	Turn On/Turn Off (Press OK to switch)

(3)PlayBack mode
In this mode, you can view the videos and photos taken.

1: Mode when shooting
2: Current video / photo sequence location
3: Total number of videos and photos stored
4: Battery remaining capacity
5: Downward
6: delete
7: Current video or photo resolution
8: Back
9: Upward

If there is no memory card, or no file, a null value will be displayed when entering playback mode.

Delete videos / photos

Enter playback mode, find the video or photo you want to delete by scrolling up or down, and then click the screen delete button.

Power OFF

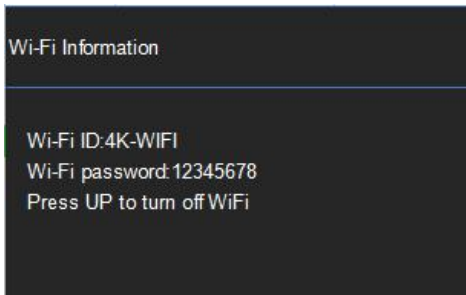Long press POWER button to turn off the video camera. If you set the auto turn off menu, when the video camera is free ,it will turn off automatically without operation in more than 3 min/5min/10min, so to save power.

WIFI function

Need to use WIFI function, first use the smart phone to scan the following QR code to download the app, or directly search XDV PRO in Google Play Store or Apple Store .

(1) First turn on the camera, long press the UP button to quickly open the WIFI. After the WIFI is turned on, the camera will display the WIFI ID or password as shown below (you can also enter the system settings menu to open the wireless hotspot).

Wi-Fi Information

Wi-Fi ID:4K-WIFI
Wi-Fi password:12345678
Press UP to turn off WiFi

(2) Open the settings on your phone or tablet. ------ WLAN finds the camera WIFI ID, enters the WIFI password, and connects the phone to the camera.

(3) Turn off the WIFI function: In the WIFI connection state, long press the UP button to cut off the WIFI signal source of the camera, and the camera returns to the normal state (you can also enter the system setting menu to turn off the wireless hotspot).

Remote Control

1:Power
2:Video Start/Stop
3:Photo
4:Up
5:Mode
6:OK
7:Right
8:Down
9:Light
10:Zoom in
11:Zoom out
12:Menu
13:Left
14:PlayBack

(1) When using the remote control, it must be used when the camera is turned on. The remote control cannot remotely turn the camera on.
(2) When using the remote control, be careful to pull out the insulation paper at the bottom; insert the insulation paper when not in use to reduce the battery loss of the remote control.
(3) The remote control should face the camera lens and be within 8 meters to ensure that the camera's infrared signal receiver can receive the signal.

Infrared light night vision function
When the ambient light brightness is insufficient, press the power (OK) button to turn on the night vision function when the camera is turned on. After turning on the infrared night vision function, the camera can use the recording videos and

take photos normally. Press the Power (OK) button again to switch off the night vision light.

Note: the effect of turning on the infrared lamp is black and white. In addition, this function will increase the battery power consumption.

MIC INPUT
When an external microphone is needed, plug the external microphone into the MIC interface of video camera to record video or audio for better audio effects. The microphone interface is 1/4 inch.

HD OUTPUT
When the video and sound of the video camera are needed to output to the HD TV, insert the public port of the HD cable into the HD interface of the video camera, and connect the HD input port to the HD input interface of the HDTV. Please stop recording / playing videos before accessing / unplugging the HD cable. (switch TV signal into HD mode)

Connect to computer
Connect the video camera to the USB port on the computer with the USB cable, insert the USB and the camera will automatically turn on, press UP and DOWN to select the Charging Mode or Mass Storage Mode or PC camera, then press OK to confirm entry.

(1) Select to enter the charging mode, all functions of the camera can be used normally, this camera supports the function of recording while charging.

(2) Select to enter the storage mode, a removable storage device will be added in the "My Computer" window, and the corresponding storage file in the memory card can be found in this mobile device.

Note: Do not disconnect the USB connection while downloading files. Do not plug memory card when USB is connected so to avoid data loss.

(3)Select the PCcamera mode, the camera can be used as a webcam.
After turning on the webcam, you can press the W/T button to adjust the digital focal length to bring the distance to an appropriate distance.

Troubleshooting:

Trouble	Measures
Camera cannot start after battery is installed	The battery is low, please replace it with a new one.
	Battery pack not removed.

	The battery is not installed in place; please confirm that the battery is installed correctly.
Unable to charge	If the charging indicator light is flashing, the battery is not installed in place or in poor contact. Please reinstall the battery until the indicator light is on for a long time (the indicator light will go out when the battery is full).
	If the charging indicator is not on, the charger is not plugged in. Please check whether the charger is connected normally.
Remote control does not work	Check whether the remote control battery is dead.
	The remote control can't start the camera remotely. This is not a fault
HD cable connected TV cannot be connected	Check whether the TV source is set to HD mode.
	Check if the HD wire is connected correctly.
Unable to connect to PC	Please check whether the USB data cable is connected correctly.
	Please check whether the USB interface of computer is working properly.
	Please check the compatibility of the computer system.
Blurred shooting effect	The best distance for shooting is more than 2m.
	Check whether the camera shake when shooting.

Camera cleaning and maintenance

 (1) If you do not use the camera for a long time, take out the camera battery and place it in a dust-free, dry environment with a temperature no higher than 30 ℃.

 (2) In order to extend the service life of the battery, please discharge it completely before storage.

 (3) Please fully discharge the battery at least once every 3 months after it has been fully charged.

 (4) If there is dust or dirt on the lens or screen, gently wipe it with a clean, soft lens cleaning cloth.

 (5) As this machine is a precision instrument, please do not drop it or suffer from strong impact or vibration.

Additional notes

(1) Do not insert any object into the slot except the memory card.

(2) After the power is turned on, the camera may show an unstable image about for a few seconds, but this is not a fault.

(3) Due to the optical properties of the lens, there may be color dispersion (magnification of chromatic aberration) at the edges of the image. This is not a camera fault.

(4) It is normal for the memory card to get hot after a long period of use.

(5) It is normal for the camera's screen to heat up after a long period of use.

(6) The camera has no auto focus function, and the best

distance for shooting is more than 2 meters.

(7) when the camera is recording or taking pictures, please do not press multiple buttons of the camera quickly and repeatedly. Under normal circumstances, the camera will display the waiting icon ⧖

Specification

Image sensor	cmos13 million megapixel sensor, 48 million megapixel maximum
Memory Card	SD Card（4GB--256GB）
Video Format	MP4
Video Resolution	4K 30FPS/2.7K 30FPS/1080P 60FPS/1080P 30FPS/720P 120FPS/720P 60FPS/720P 30FPS
Image Format	JPEG
Picture Resolution	48M/30M/24M/20M/12M/8M/5M/3M
Digital zoom	18X
Lens	f=7.36mm
Aperture	F/3.2
Language	Simplified Chinese/traditional Chinese/English/Japanese/Korean/Russian/German/French/Italian/Spanish/Portuguese/Thai
USB interface	2.0

HDMI interface	Support
External microphone	Support
WIFI	Support
Fill light	IR night vision
ISO	Auto/100/200/400/800/1600/3200/6400
White Balance	Auto/Sunny/Cloudy/Incandescent/Fluorescence
Exposure Setting	-3.0 ~ +3.0
Power supply	Lithium rechargeable battery
Operating system requirements	Windows 98 / 98SE / ME / 2000/ XP / Vista / win7 / win10 / Mac
Dimension	126mm ×58mm × 57 mm
Net weight	300g