



USER GUIDE

KBA12030 X4 USER GUIDE

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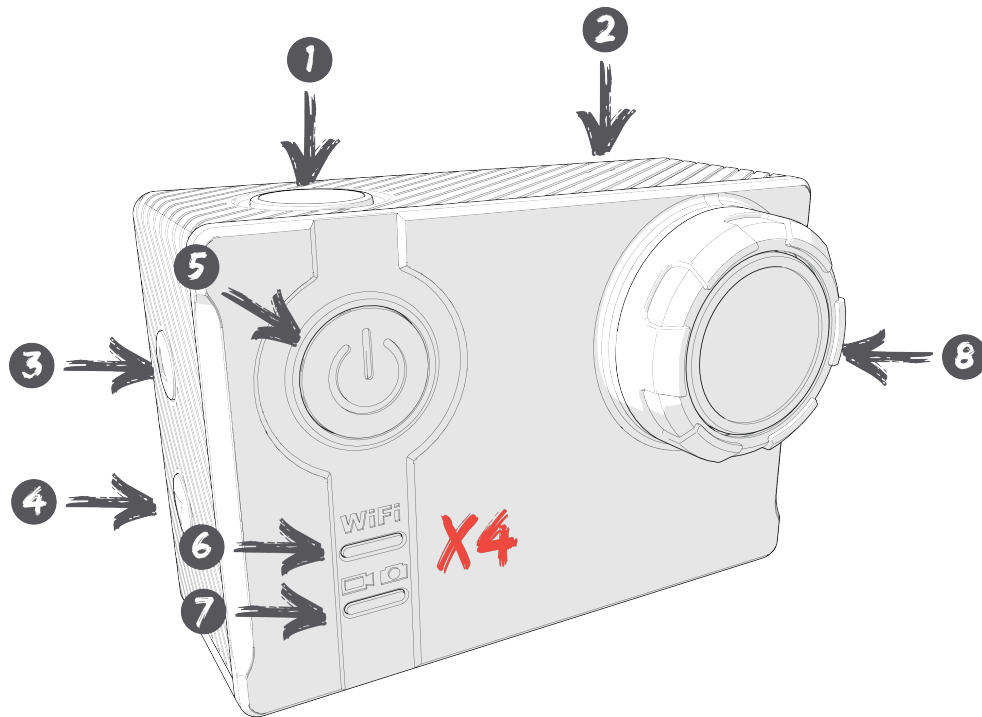
Important Safety and Operating Guidelines

Before using your KB camera please ensure you read and understand the following product and safety precautions.

- DO NOT use the camera in water without the waterproof case.
- Always check the waterproof case seal is clean and free of debris prior to use in water.
- DO NOT attempt to open the camera or modify it in any way. If the camera has been opened the warranty will be void. Maintenance and repairs should only be performed by Kaiser Baas.
- DO NOT handle or charge the camera without its waterproof case using wet hands. Failure to observe this may result in damage to camera and persons.
- ONLY recharge the camera battery using the supplied USB cable.
- If using a wall charger, ensure that it is a certified product for your region. AC Input: 100-240VAC 50/60Hz. DC Output: 5V 1A. Only use a USB wall charger with suitable approval and certification. Do not charge in conditions outside of the 10°C - 45°C range. If you do not know the voltage and current of your charger, use the included cable to charge from your computer.
- The camera should not be used in heat exceeding 55°C (131°F).
- DO NOT drop, crush, pierce, bend, deform, microwave, incinerate or shoot the camera.

Camera Features

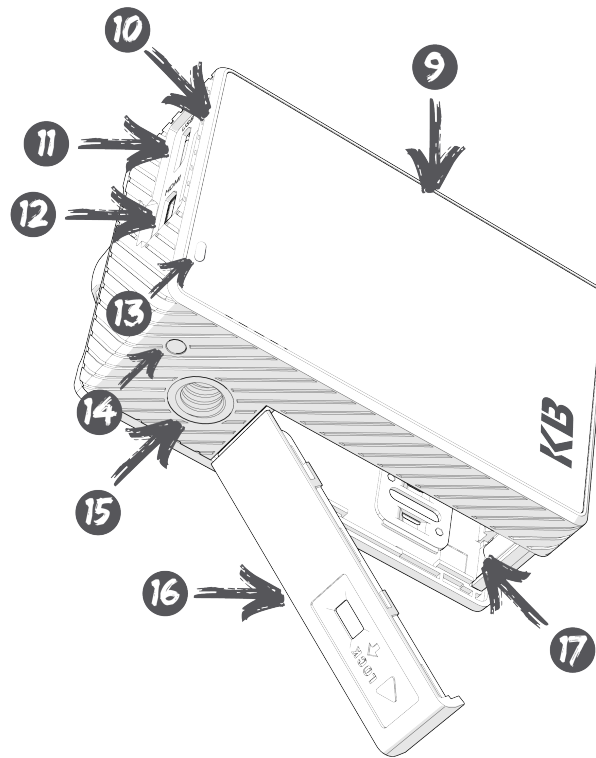
Camera Front Diagram



- 1. REC/Confirm/WiFi Button
- 2. Microphone
- 3. +/Up Button
- 4. -/Down Button

- 5. Power/Mode Button
- 6. WiFi LED
- 7. Record LED
- 8. Lens

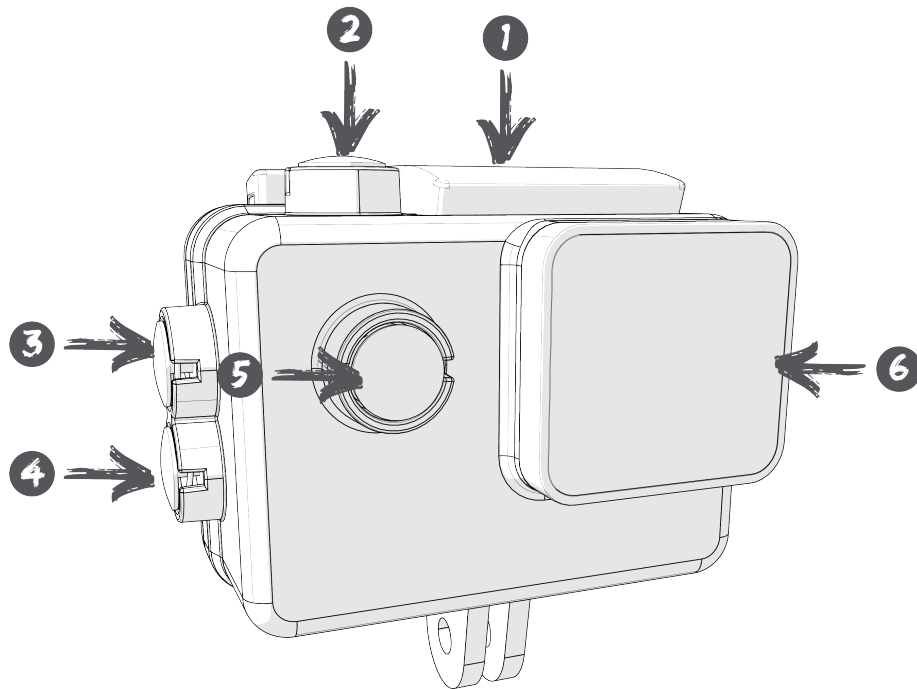
Camera Rear Diagram



- 9. LCD Screen
- 10. MicroSD Card Slot
- 11. Micro USB Port
- 12. Micro HDMI Port

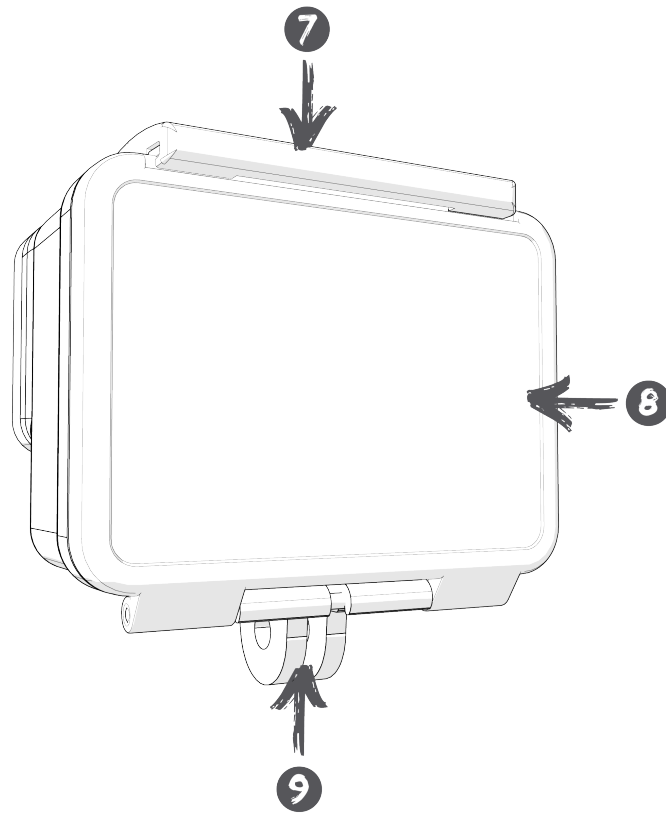
- 13. Status LED
- 14. Status LED
- 15. 1/4" Screw Mount
- 16. Battery Door
- 17. Battery Slot

Waterproof Case



- 1. Case Latch
- 2. Record/Confirm Button
- 3. +/Up Button
- 4. -/Down Button

- 5. Power/Mode Button
- 6. Waterproof Case Lens



- 7. Case Latch
- 8. LCD Backdoor
- 9. Accessory Mount

Getting Started

Welcome to your new KB Action Camera. Before you get shooting, please review the User Guide carefully to ensure you get the maximum performance out of your camera.

Battery Charging

We recommend that you fully charge your camera before use.

A full charge is approximately 2.5 hours using a 5V 0.5/1A Charger.

The status **LED** light on the rear of the camera will be **RED when charging** and will be **OFF when charged**.

For further important information about the battery, see the Battery Guide (page 22).

MicroSD Card Compatibility

Your camera requires a MicroSD Card (not included).

Kaiser Baas recommends the use of a brand name Class UHS-1 or higher MicroSD Card. Any content recording higher than 1080P@60FPS will require a Class UHS-1 or higher card.

There is only one correct way to insert the MicroSD card. Do not force the card into the slot as it may damage the camera and card.

The maximum card size is 64gb.

The list of recommended MicroSD cards can be found at:

www.kaiserbaas.com/support

Format Card

Before you start recording for the first time, we recommend you format the MicroSD card.

The format option is found in the Settings Menu.

For information on how to navigate the menu please see the Navigation Guide (page 10)

Note: Formatting the card will permanently erase all data on the card. Be sure to backup any content prior to formatting.

Firmware Update

Please check the www.kaiserbaas.com/support page for the latest firmware on your camera. The current firmware version can be found on the last settings page.

Power On/Off

To power ON your camera

1. Insert the battery into the camera.
2. Hold the power/toggle button for 2 seconds until you see the Kaiser Baas logo appear.

Navigation

Navigate the menus and camera modes using the 4 buttons found on your camera.

The front Power/Toggle button cycles through the cameras modes and settings. It can also be used to go back/cancel any menu item.

The top Record/Confirm button will start/stop recording video, capture photos and confirm/select menu items.

The +/- buttons will scroll up/down in the settings page.

Tip: The +/Up Arrow when in Video/Photo Recording mode will toggle the microphone Off. It is set to ON by default.

Capture Videos and Photos

Modes

The X4 features 2 key modes; Video Mode and Photo Mode.

The following guides will help you understand each setting.

Video Mode Settings

The default mode is Video Mode.

Click the Record button to start recording.

There are 3 Indicator lights on the X4 Camera. One on the Front, One on the Back and One on the bottom. Refer to the Camera Diagram for exact placement. When recording, these 3 status LEDs on the camera will flash continuously.

Video Settings

Video Resolution

Your action camera can be set to support an array of resolutions and frame rates.

The higher the resolution the greater the detail and clarity of footage. Higher frames-per-second (FPS) capture more motion and appear smoother on playback.

The X4 features 2 Aspect Ratios and a SuperView Mode on selected resolutions.

SuperView

The SuperView resolution setting dramatically increases the cameras field of view (FOV) allowing you to capture more in the video. Note that this also increases the Fish-Eye effect and the video footage will appear quite distorted.

Resolution	FPS	Aspect Ratio
UHD 3840x2160	30 25	16:9 16:9 SuperView
2880x2160	30	4:3
2704x2028	30	4:3
2704x1520	30 30	16:9 SuperView 16:9
2560x1440	60 30	16:9 16:9
1920x1440	60 30	4:3 4:3
1920x1080	120 100 60 30 60 30	16:9 16:9 16:9 16:9 16:9 SuperView 16:9 SuperView
1280x960	120 60 30	4:3 4:3 4:3
1280x720	240 200 120 60 30 120 30	16:9 16:9 16:9 16:9 16:9 16:9 SuperView 16:9 SuperView

Note: Higher resolutions will become inactive if the memory card is not Class 10 or higher.

Tip: Recording in higher resolutions/fps also impacts battery life. Refer to the battery guide for more tips on battery management (page 22).

Video Quality

This setting features 3 options. S.Fine (Super Fine), Fine and Normal. This setting changes the Video Bitrate and quality of the video. The higher that setting (Super Fine) the larger the video size.

Please ensure your Memory Card speed can handle the appropriate bitrate when recording in Super Fine mode.

Resolution	Super Fine	Fine	Normal
3840x2160 30FPS	65.1Mb/s	56.9Mb/s	40.7Mb/s
1920x1080 60FPS	32.4Mb/s	26.6Mb/s	21.4Mb/s

Default Mode

Select if you would like the camera to start in Video Capture or Photo Capture mode upon turning it on.

Quick Capture

When enabled this mode will automatically begin recording the moment the camera is turned on.

EIS – Electronic Image Stabilisation

EIS or Electronic Image Stabilisation is only available when the camera resolution is set to one of the following settings:

- 1920x1080 60FPS
- 1920x1080 30FPS

EIS helps reduce shakiness and blur when shooting video. When the mode is enabled there will be an Anti-Shake icon appear in the video capture screen.

Motion Detection

Motion Detection allows the camera to record when it senses any motion within its field of view.

This mode features 3 levels High, Medium & Low.

It will record for as long as there is any motion within its field of view. To enable this click the record button. Once enabled the Motion Icon will flash indicating it is in standby waiting for motion.

After an event or motion detection has cleared the cameras view it will record for 10secs and stop recording until another motion event. The Motion icon will flash red when it is recording.

To stop motion detection, click the record button.

It may be useful if using the camera for extended periods of time to connect it to a power source (e.g. power bank).

Note: Whilst in this mode the camera will stop recording after no movement is detected. Switch Motion Detection to OFF if you would like to capture footage normally.

Tip: This mode works best when the camera is locked in position (e.g. on a tripod).

Time lapse

Time-lapse is a creative technique that records footage at a very low frame rate. Playing it back at a higher frame rate shows a rapid change over time. This technique is most effective when recording scenes or objects which have a slow state of change, e.g. a sunset or a flower blossoming.

This option captures video at specified intervals without audio ready for playback and sharing.

Time lapse can be set to the following intervals 1/2/5/10/30/60 seconds.

The following chart is useful for determining the amount of time required for 1min of footage at 30fps:

Interval	Recording Time
1	30 mins
2	1 hour
5	2.5 hours
10	5 hours
30	15 hours
60	30 hours

Note: Time lapse Video is only available when shooting at 30FPS. If the FPS is higher than 30fps the option will be inactive/disabled.

Tip: The camera may be plugged into a power bank/power source to extend the battery life and allow you to shoot for extended periods of time. This is very useful for recording long time lapses.

The greater the interval the more dramatic the effect.

Loop Recording

This allows you to record continuously using footage intervals of 2/3/5 minutes. The camera will delete the oldest loop recording file and replace with the latest recording when the MicroSD is full.

Dual files

This mode enables the camera to save two videos simultaneously when recording video. It will record the default resolution option and a smaller video file. The following chart is an example of how this mode functions.

Resolution	Default File	Small File
3840x2160 30FPS	3840x2160 30fps	768*432 30fps
1920x1080 60fps	1920x1080 60fps	768*432 30fps

Audio Recording

Set the microphone recording level to the following intervals Off/50%/75%/100%. By default, audio recording is set to 100% On.

Auto DVR

Auto DVR or Car Mode lets you use the X4 camera like a Dash Camera and record in Loop Mode.

When enabled the X4 will begin recording the moment a power input/source has been detected.

When the power source has been shut off/disconnected the camera will record for an interval (see delay section) and then shut off.

Delay Off

The Delay Off setting is only enabled when in Auto DVR mode.

It lets you configure how long the camera remains recording after the power source has been disconnected.

Intervals of 5/10/20/30/60 seconds.

Video Stamp

This setting will embed the Date/Time on the corner of your Video Footage. It is OFF by default. You may toggle the following: Date/Time/Date & Time.

Photo Mode Settings

To enter Photo Mode, click the Power/Toggle button once on the front of the camera.

Click the Record/Confirm button to take a photo.

When capturing a photo, the blue status LED on the front of the camera and the blue power LED on the back of the camera will flash once.

Photo Settings

Photo Resolution.

MP	Resolution	Aspect Ratio
12	4000x3000	4:3
8.3	3840x2160	16:9
5	2560:1920	4:3
3	2048x1536	4:3

Photo Quality

This setting features 3 options. S.Fine (Super Fine), Fine and Normal. This setting changes the photographs bitrate. The higher the setting (Super Fine) the larger the photo size.

Resolution	Super Fine	Fine	Normal
12M (4000x3000 4:3)	1.4MB	904.4KB	884.7KB

Self Timer Mode

When this mode is enabled, it lets you set intervals for when a single photo is taken after clicking the Record/Confirm button.

2/3/5/10/30/60 second intervals are available.

Photo Burst Mode

Photo burst lets you capture photos in a rapid fast firing sequence.

You can set the following intervals 3/5/10 P/S (photos/second)

Note: Shooting in higher intervals requires some time to save the images to the memory card. The screen will be blacked out whilst shooting and saving.

Quality

This setting lets you select the quality of the images. S.Fine is the highest and largest quality. This setting may be useful if you are trying to reduce the file size of the images.

Long Exposure

Long Exposure lets you increase the shutter speed when taking photos.

This is suitable for when you want to shoot photographs at night or low light environments.

Intervals options 1/30s, 1 second, 2 seconds, 5 seconds, 10 seconds, 30 seconds, 60 seconds.

Time lapse Photo

Time lapse Photo mode allows you to shoot a continuous sequence of photos. This mode is activated by clicking the Record/Confirm button and will shoot automatically until stopped by pressing the Record/Confirm button again.

Shoot in this mode with the following intervals 3/5/10/30/60 seconds.

Interval range: Auto/Daylight/Cloudy/Tungsten/Fluorescent

Photo Stamp

This setting will embed the Date/Time on the corner of your Photos. It is OFF by default. You may toggle the following: Date/Time/Date & Time.

System Settings

Tv Mode

Select the output mode for your TV: NTSC/PAL

Light Frequency (Light Source)

Default setting is Auto. However, if you experience any light strobing in your footage you may manually select 50/60hz

OSD – On Screen Display

Toggle whether in Video/Photo Capture Mode the user interface is displayed.

Auto Shutdown

This will power off the camera after a period of inactivity.

Intervals of 1/3/5 Minutes.

Screen Off

This setting lets you conserve power while shooting. It will switch off the LCD screen after the set interval: 30seconds/1/3/5 minutes.

Status LED

Select the amount of Status LED lights the camera uses. Default is set to 4.

WiFi LED

Disable the WiFi LED while using WiFi.

TV Out

Enable or disable the TV output. Default is set to ON

Beep

Select whether the camera makes any sound when confirming/scrolling.

Microphone Volume

Set the microphone capture level. Default is 80%

Intervals of Off/ 50% / 60% / 70% / 80% / 90%/ 100%.

Sharpness

This setting controls how much detail and how sharp images appear. Intervals of Strong/Normal/Soft.

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AWB – Automatic White Balance

Manually control the white balance. Camera is set to Auto by default.

Options include Auto, Incandescent, D4000, D5000, Daylight, Cloudy, D9000, D10000, Flash, Fluorescent, Water, Outdoor.

EV Value

Manually control the exposure/amount of light the camera records.

Intervals range: -2/-1.7/-1.3/-1/-0.7/-0.3/0/0.3/0.7/1/1.3/1.7/2

Scene Mode

Scene Modes are pre-programmed settings suitable for capturing a variety of different environments.

Scenes available: Normal, Flash, Night, Sports, Landscape, Portrait, Sunset.

Effect Mode

Effect Mode setting is a fun way to transform the colours of your footage.

Available effects include: Normal, Art, Sepia, Negative, BW (Black & White), Vivid and 70Film.

ISO

Manually control the ISO level the camera captures footage at. The default option is Auto. Note that the higher the ISO number the more noise/grain will appear in your footage.

Interval options Auto/100/200/400/800/1600.

Metering

Manually control how the camera meter's light. Available options Center, Multi or Spot. The Default Mode is Center.

Time Setup

Set the Date and Time in 24h format.

Date Format

Set the date format. Default is Y/M/D

Options include: Y/M/D, D/M/Y, M/D/Y.

Language

Select your desired language here.

Available Languages:

English	French	German
Spanish	Italian	Chinese
Russian	Portuguese	Polish
Swedish	Dutch	

Bluetooth Pair

This option is for an optional Bluetooth Remote.

Note: This item is not included and sold separately.

WiFi

Switch ON/OFF the camera WiFi. For more information please refer to the WiFi Guide (page 21).

WiFi SSID

Set the WiFi SSID to a custom string.

WiFi Password

The Default password is 1234567890

WiFi LED

Select if you would like to disable the WiFi LED light located on the top of the camera.

Format

This option will format the MicroSD card. Recommended prior to using any MicroSD that has been used in other devices.

Note: Formatting the card will permanently erase all data on the card. Be sure to backup any content prior to formatting.

Default Setting

Resets all settings to the factory default.

X4-VX.XX Firmware Version

Displays the current Firmware Version.

WiFi Guide

1. Download the KB Action App from the Apple® App Store® or Google Play™ Store. (Visit www.kaiserbaas.com/support for a direct link)
2. Switch on the WiFi from the Settings Menu (page 18).
3. Connect to the WiFi through your WiFi settings page on your smartphone.
 - a. WiFi ID: KB-X4
 - b. WiFi Password: 1234567890
4. Launch the KB Action App and click connect.
5. You are now ready to use the App. Check the KB website for new features and updates to the App.

Playback

PC/Mac Playback

You can playback your footage on a PC or Apple® Mac computer/laptop.

Using the supplied USB cable, connect it to your computer. Choose the MSDC option when prompted on the camera. The camera will now appear as an external device.

You may also use a MicroSD Card reader to view and playback files directly without the camera.

HDTV Playback

To playback on a HDTV you will need a Micro HDMI – HDMI Cable.

When connected, the HDTV will switch the Camera LCD screen OFF and mirror the camera screen instead.

The camera will only output up to 1920x1080i @ 60fps via the Micro HDMI port.

Battery Guide

Only use KB official batteries with this product. Never use any third party or unknown accessories or batteries.

To charge the camera:

1. Insert the battery into the camera
2. Connect the USB Charging Cable to the Mini USB port located on the camera.
3. Connect the USB Charging Cable to a computer or wall charger.

WARNING!: *If using a wall charger, ensure that it is a certified product for your region. AC Input: 100-240VAC 50/60Hz. DC Output: 5VDC 0.5A/1A. Only use a USB charger with suitable approval and certification. If you do not know the output voltage/current of the charger use a computer to charge the battery. Do not charge in conditions outside of the 10°C-45°C range.*

4. The camera status LED will be RED whilst charging. Once charging is complete the status LED light will switch OFF.
5. A full charge cycle will take approximately 2.5 hours by 0.5A/1A charger.

Battery Tips

To maximise battery life:

- Turn off WiFi.
- Turn on the Screen Off function.
- Capture at a lower Video Resolution and frame rate. Higher resolutions and frame rates impact battery performance.
- Avoid exposing the camera and battery to very cold or hot temperatures. Cold or hot temperatures may temporarily affect the battery life and cause the camera to stop working.
- Only ever charge the camera with a compliant wall charger marked 5V/1A.

Maintenance

Adhere to these guidelines to ensure maximum performance and longevity.

- Never use the camera in water without the waterproof case. The camera is not waterproof without the case.
- If camera has been used in salt water ALWAYS rinse the waterproof case in fresh water to prevent corrosion.
- Regularly check the seals for debris or dust on the door of the waterproof case to prevent water, sand and dirt ingress.
- Never handle the camera, battery or MicroSD Card with wet hands or in wet conditions.
- Clean the camera lens and waterproof case lens with a soft micro fibre towel to reduce any blurry footage due to grease/fingerprints.

FAQ

Camera

What is the WiFi Password?

The default password is: 1234567890

My camera has frozen

Try to restart the camera by holding the power button or removing and reinserting the battery.

Won't read my MicroSD Card

Make sure the MicroSD has been formatted. If you are still having trouble, please visit kaiserbaas.com/support for a guide on MicroSD compatibility.

What is the maximum size MicroSD Card I can use?

The camera supports up to 64gb MicroSD cards.

My footage files are split up?

The file system the camera uses is FAT32 and the maximum file size is 4GB. Your camera will split files into 4GB parts. The video length of each file will be determined by the resolution and fps you have set. Lower resolutions will result in longer files.

How do I know when the camera is charged?

When connected and powered OFF the camera status LED will be RED.

What is the WiFi Range?

The connection will work reliably up to 10m.

The camera won't connect over WiFi

Areas with a large number of WiFi networks may cause interference/connection problems when trying to use the camera with WiFi. We suggest moving away from any areas of concentrated WiFi networks and trying again.

The audio/mic is too low/muffled

When using the camera in the waterproof case, audio performance will be significantly impacted. Try using the camera without the case for best audio performance.

Choppy Playback

Choppy or slow playback is usually not a problem with the file. Check the following common solutions:

- Your computer may not support the minimum requirements for HD playback. Try recording at a lower resolution and checking playback.
- Video footage is recorded using the h.264 codec, your video player may not support this format. Please use a video player that supports h.264 playback. Visit kaiserbaas.com/support for further information on compatible video players.

Support

Having trouble with your camera?

Don't worry, our friendly support team can help. Please visit us at:
www.kaiserbaas.com/support or send us an email at: helpdesk@kaiserbaas.com

Regulatory Information

To see the complete list of country compliance and certification, please visit
kaiserbaas.com/support