



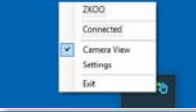


User's Guide

- 1** Start 
- 2** Camera View 
- 3** Opening Settings Menu 
- 4** Settings Menu Details 
- 5** Exit 

1. Start

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

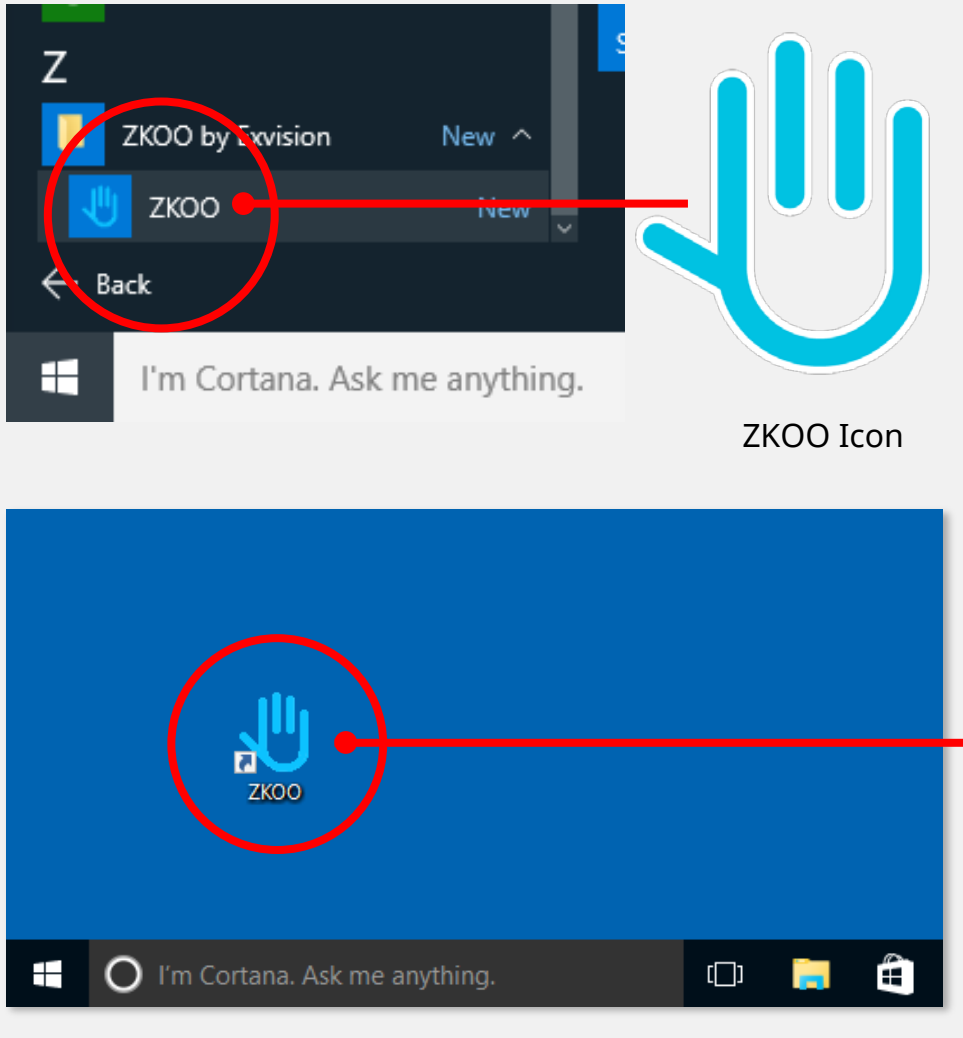
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Starting ZKOO application from ZKOO Icon

There are 2 options to start ZKOO application.

1. Click ZKOO icon in Windows Start Menu. ZKOO application is under ZKOO by Exvission folder.

2. Tap or click ZKOO shortcut icon on Windows Desktop.

2. Camera View

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

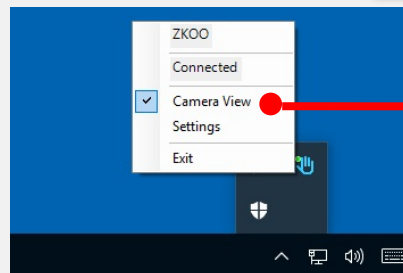
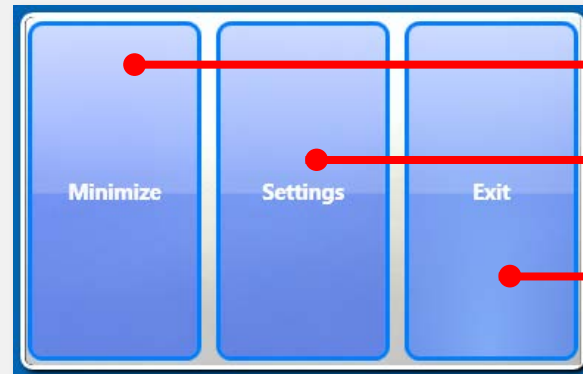
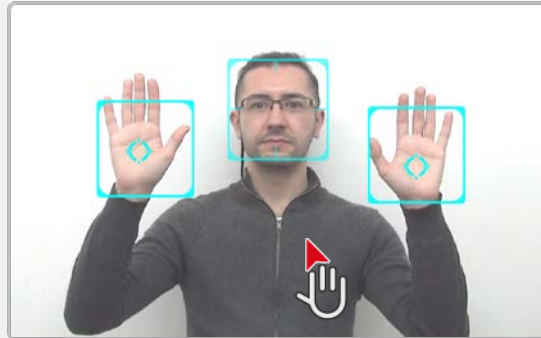
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Camera View

Camera View shows what ZKOO camera is shooting. During gesture, it shows the user playing with ZKOO.

When the Camera View is tapped or clicked, buttons are shown on Camera View.

Minimize

Minimize (hide) the Camera View

Settings

Show Settings menu

Exit

Exit ZKOO application

When ZKOO Icon on Windows System Tray is right-clicked, a context menu is shown.

Camera View

To show or hide the Camera View, check on or off Camera View by clicking on it.

3. Opening Settings Menu

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

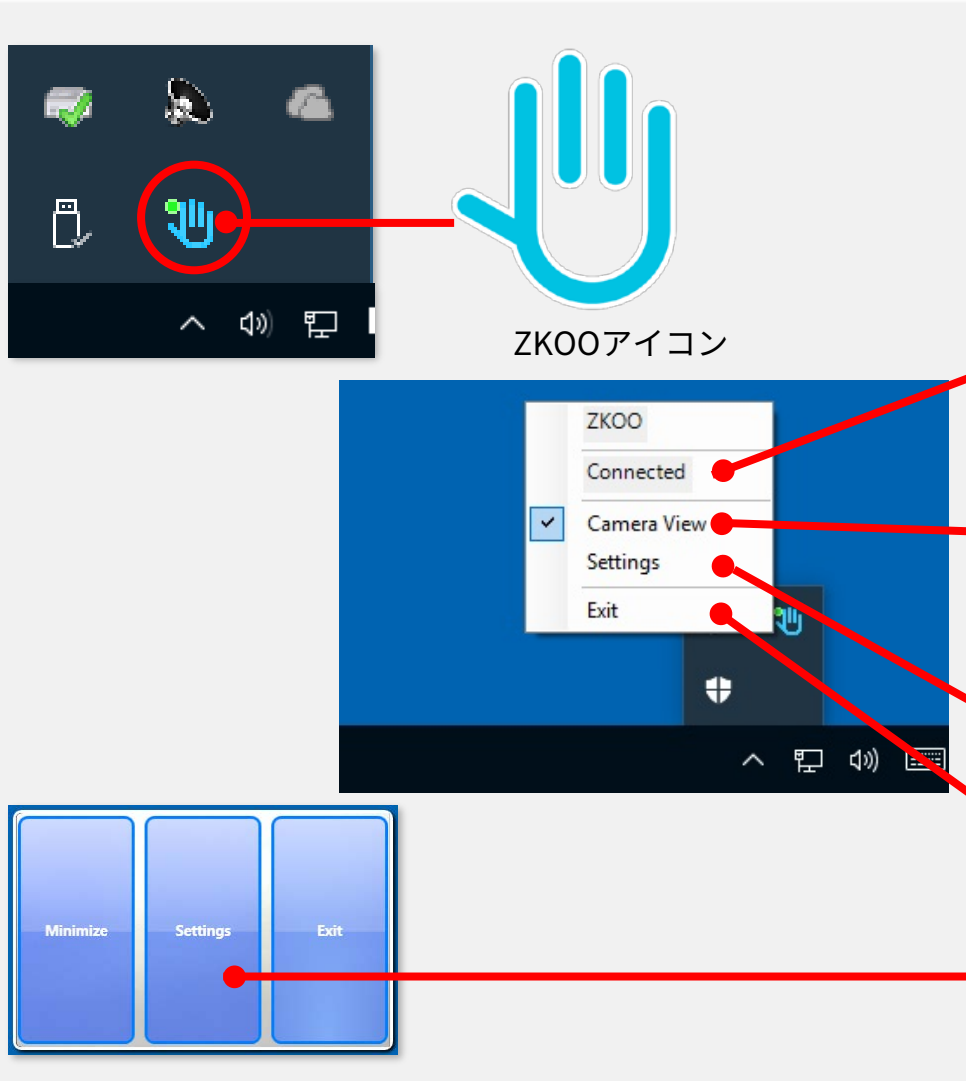
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



ZKOO Icon

When ZKOO Icon on Windows System Tray is right-clicked, a context menu is shown with the connectivity status of ZKOO camera.

Connected

ZKOO is connected

Not Connected

ZKOO is not connected

Camera View

Click to turn check mark on to show the Camera View when it is minimized, and click to turn check mark off to hide when the Camera View is displayed.

Settings

Click to open the Settings Menu.

Exit

Click to exit ZKOO application.

When the Camera View is tapped or clicked, buttons are shown on Camera View.

Tap or click on Settings button to open the Settings menu.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

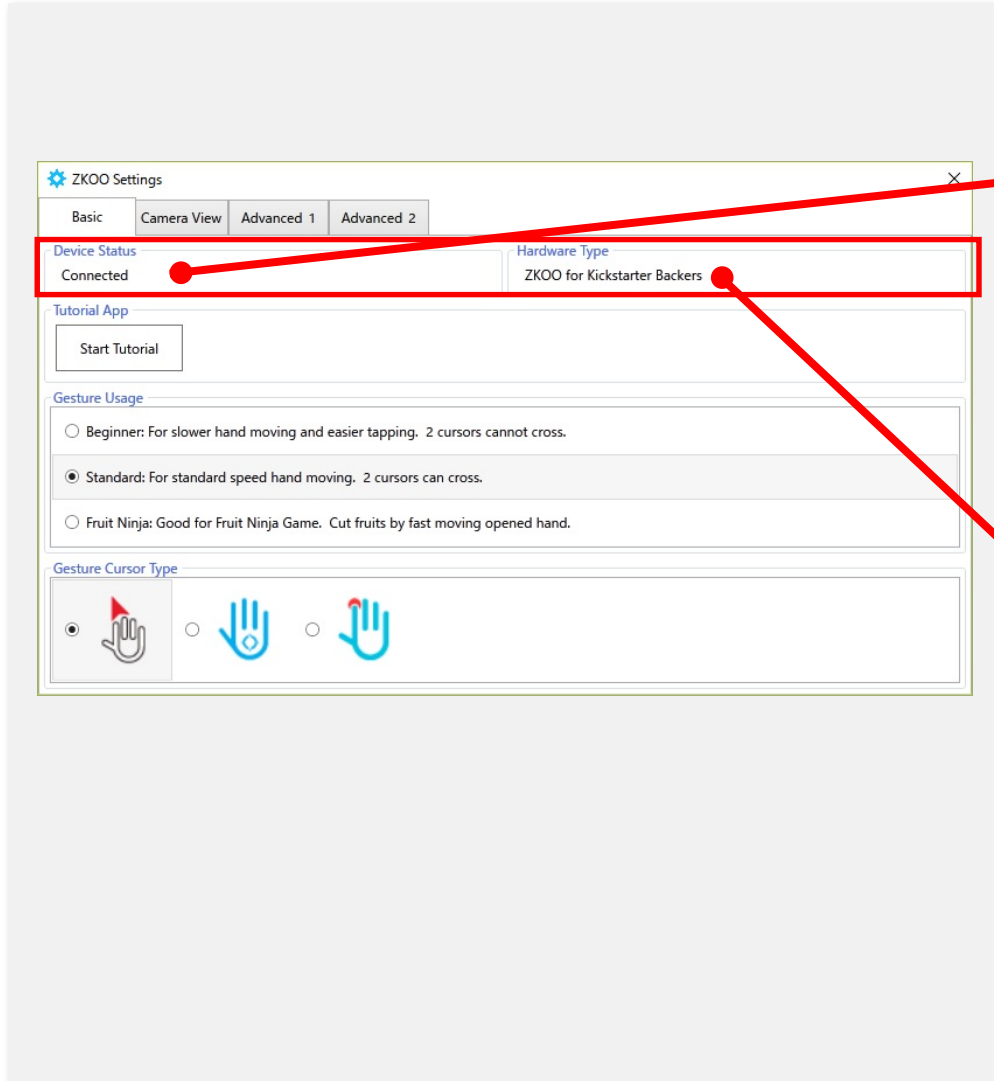
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Basic

1

Device Status

Connected

Camera is connected.

Not Connected

Camera is not connected.

Hardware Type

Displays the type of camera connected.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

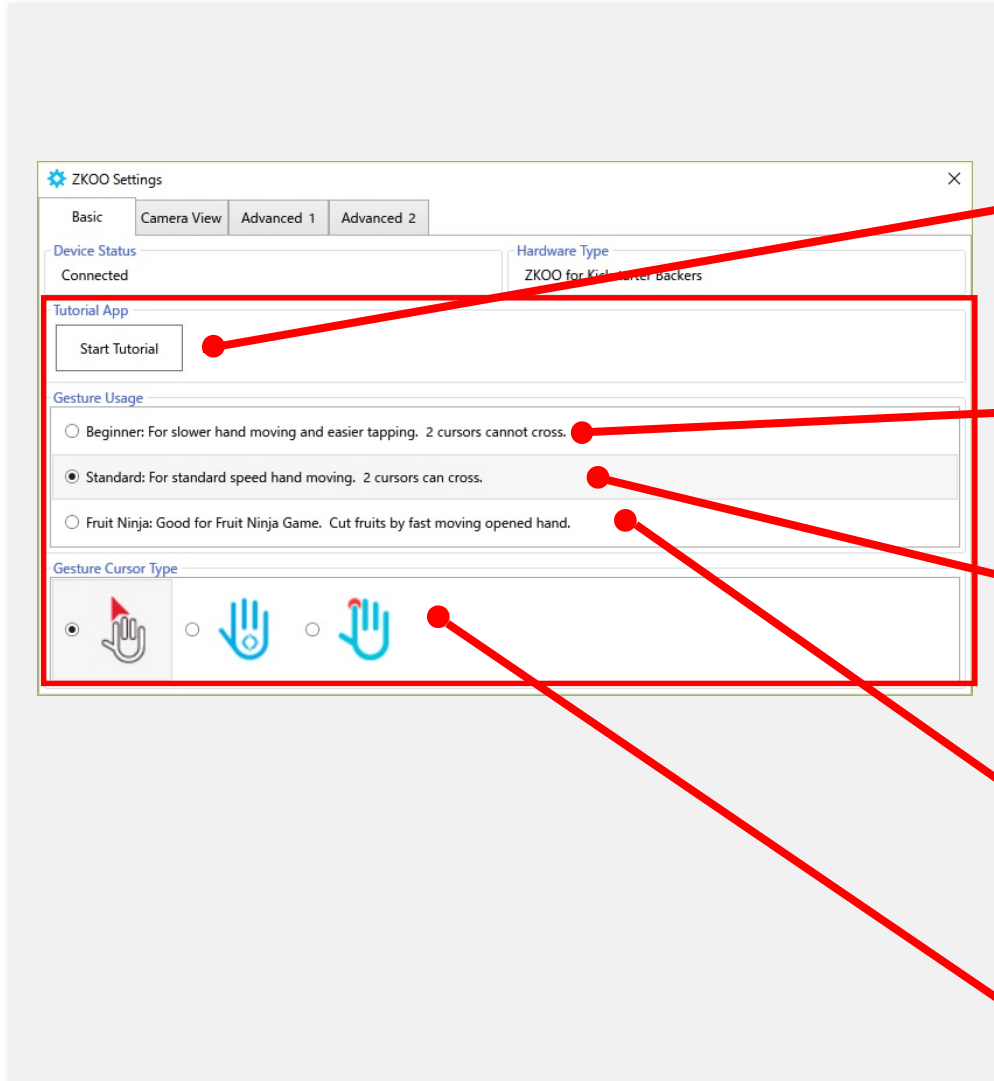
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Basic

2

Tutorial App

Tutorial application is started when Start Tutorial button is selected.

Gesture Usage

Beginner

It is recommended for beginners and those who only use one hand. It is suitable for slow hand movements. When two hands are used, the cursors cannot cross each other to avoid confusion of cursor positions.

Standard

It is recommended for those who are accustomed to gesture user interface. It is suitable for fast hand movements. When two hands are used for gesture, cursors can cross over each other.

Fruit Ninja

It is suitable for playing Fruit Ninja Game. It is possible to cut fruits with fast moving, open hands. It is not necessary to close hands to tap.

Gesture Cursor Type

Select the type of cursor displayed on the Screen.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

-08 _ 3

-09 _Advanced_2 1

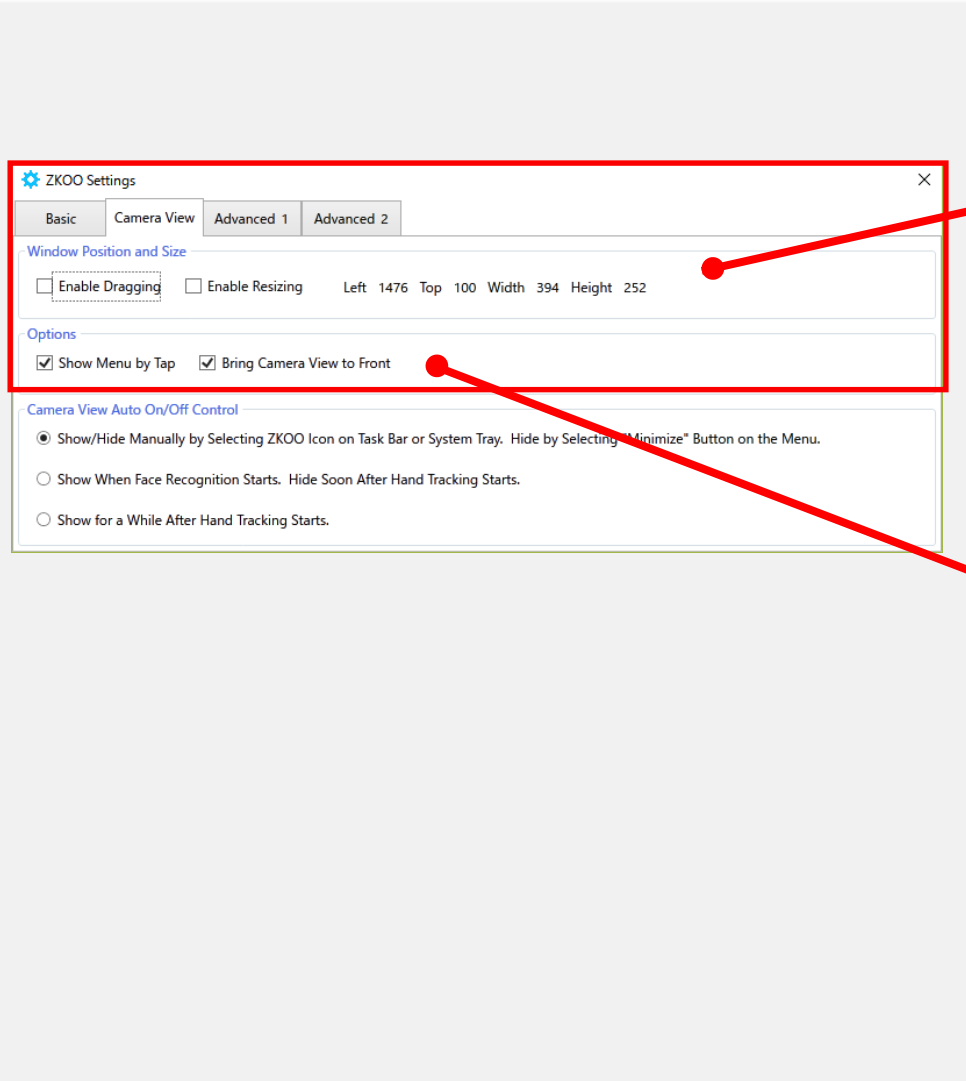
-10 _ 2

-11 _ 3

5. Exit

Camera View

1



Window Position and Size

Enable Dragging

Check mark on to enable moving the Camera View with dragging.

Enable Resizing

Check mark on to enable resizing the Camera View with dragging the edge of the window.

Options

Show Menu By Tap

Check mark on to enable showing the menu on the Camera View by tapping or clicking. [Minimize] [Settings] [Exit] menu buttons will be displayed.

Bring Camera View to Front

Check mark on to bring the Camera View in front of all windows.

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

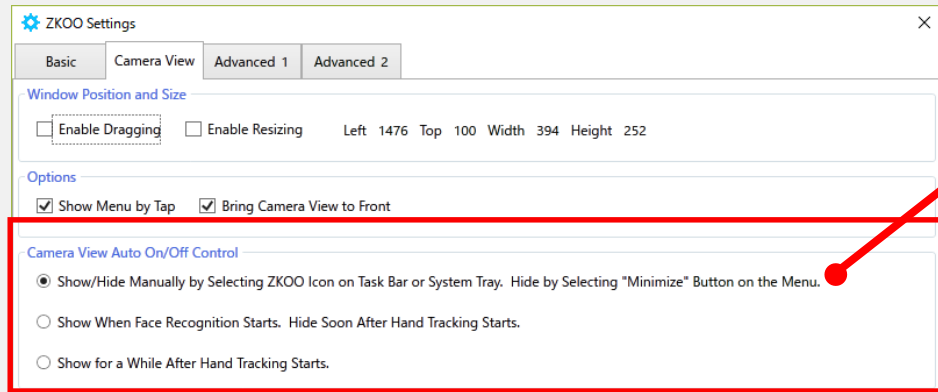
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Camera View

2

Camera View Auto On/Off Control

Show/Hide Manually by Selecting ZKOO Icon on Task Bar or System Tray.
Hide by Selecting "Minimize" Button on the Menu.

This option enables showing and hiding the Camera View manually. To minimize (hide) the Camera View, tap or click on the Minimize button on the Camera View. The Minimize button is shown when tapping or clicking on the Camera View.

To show the Camera View again, double click on ZKOO icon in the Windows System Tray.

When first starting out, it is recommended to keep showing the Camera View.

After getting accustomed to gesture, it is possible to control ZKOO without showing the Camera View.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit

Camera View

3

Camera View Auto On/Off Control

Show When Face Recognition Starts.
Hide Soon After Hand Tracking Starts.

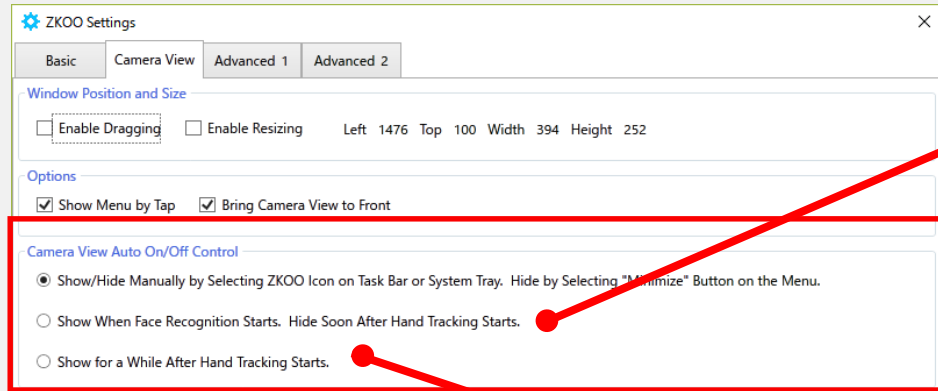
This option enables showing and hiding the Camera View automatically. The Camera View is shown to detect the face and hand. After detecting the face & hand and tracking is started, the Camera View hides automatically. When the ZKOO camera loses tracking of a hand, the Camera View is redisplayed automatically.

This option is recommended for users who do not need the Camera View after initial hand detection is completed.

Show for a While After Hand Tracking Starts.

With this option, the Camera View is usually hidden and only appears when the user goes to perform hand detection. The Camera View is shown for only a few seconds, then disappears.

This setting is great for someone who prefers to operate with minimal interruption from the Camera View.



4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

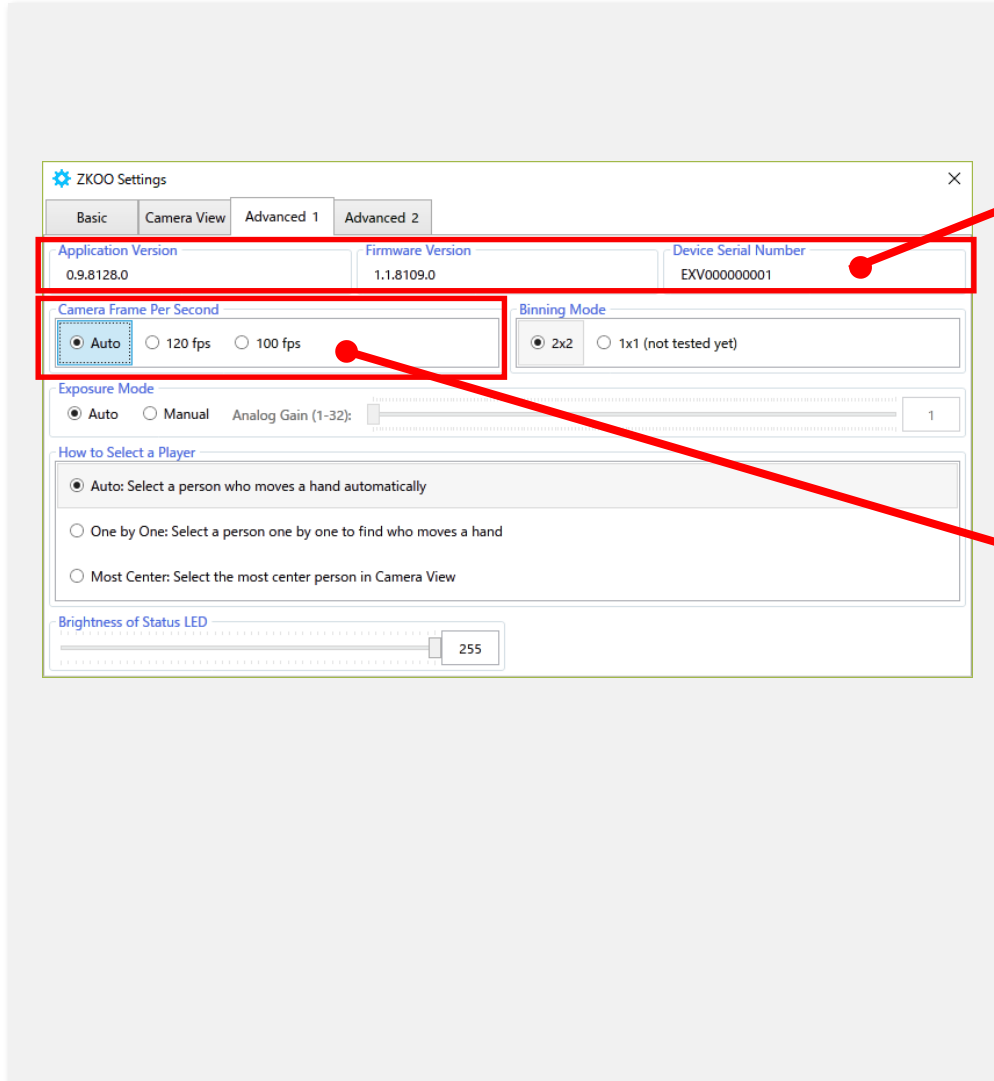
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_1

1

Application Version

Displays the ZKOO application version.

Firmware Version

Displays the ZKOO firmware version.

Device Serial Number

Displays the ZKOO serial number.

Camera Frame Per Second

Depending on the power line frequency, flickering may occur and disturb ZKOO capability. Adjusting the camera frames per second (fps) can help mitigate this issue.

Auto

This is the default setting. ZKOO will automatically switch between 100fps and 120fps according to the power line frequency.

120fps

Choose 120fps if the power line frequency of your location is 60Hz.

100fps

Choose 100fps if the power line frequency of your location is 50Hz.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

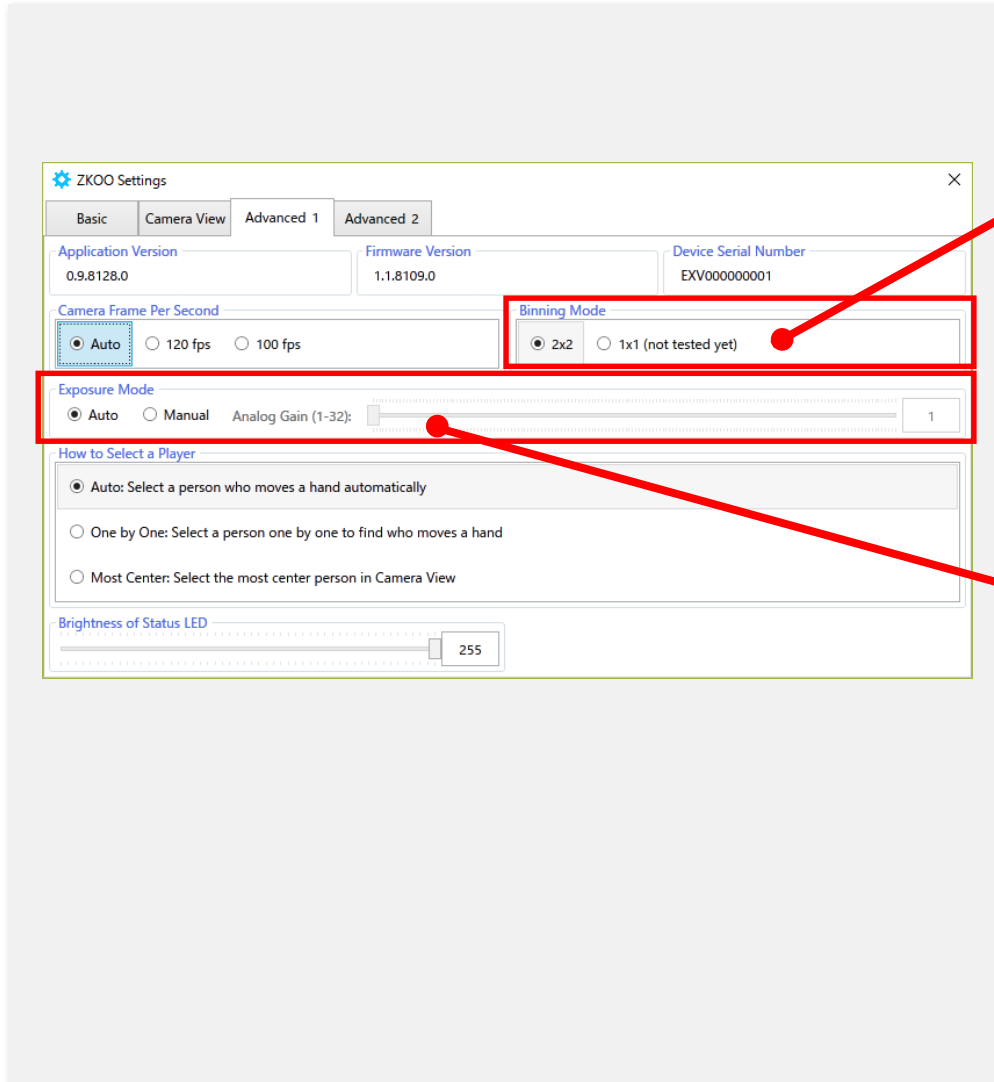
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_1

2

Binning Mode

Choose the appropriate camera distance.

2×2

This is the default setting appropriate for most cases.

1×1

Choose this setting to operate ZKOO at distances greater than 10 feet.

Exposure Mode

Auto

Camera exposure is adjusted automatically. This is the default setting.

Manual

Adjust the exposure manually. This is useful when factors like backlight prevent the ZKOO from clearly capturing your face and hands. Use the slider to adjust the exposure.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

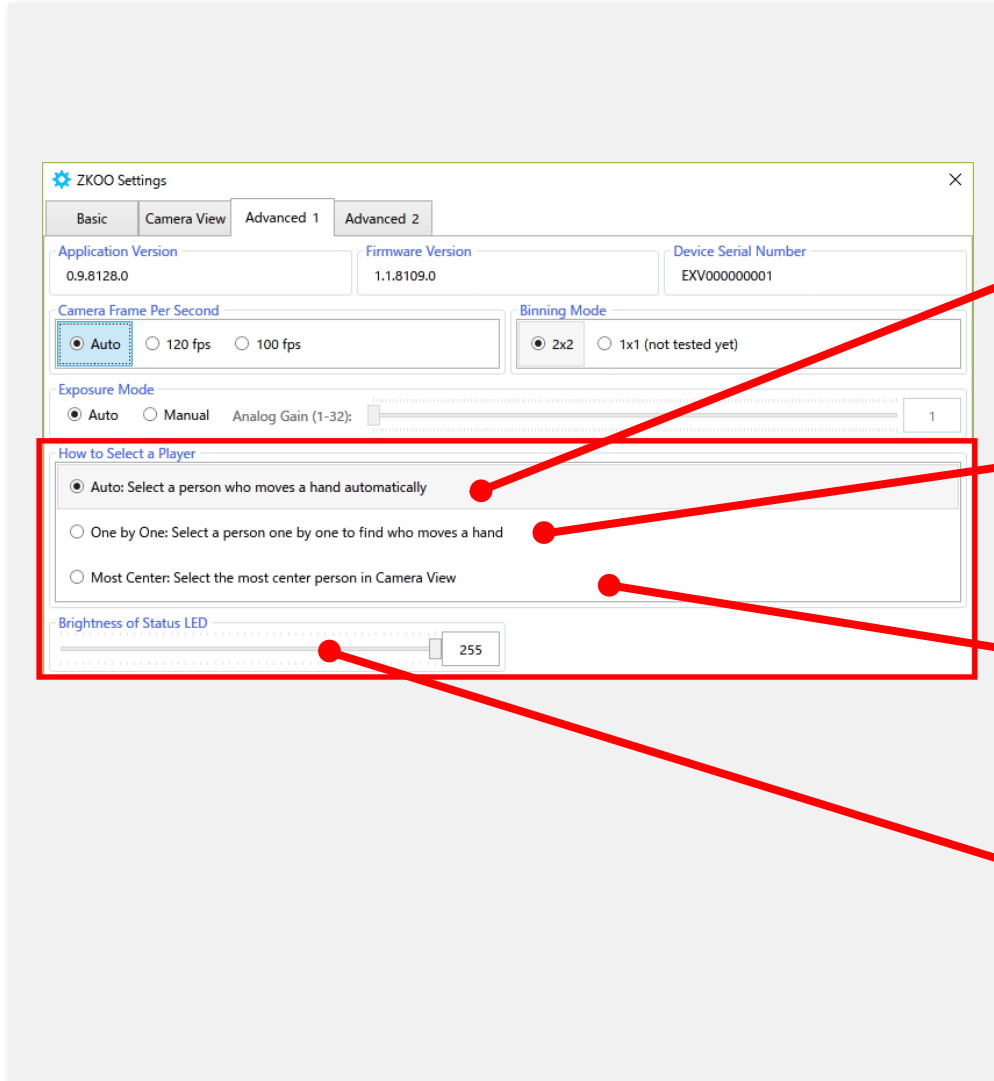
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_1

3

How to Select a Player

Auto

This option is selected by default. The person shown in the Camera View with moving hands is selected as the player.

One by One

Every person in the Camera View is tracked one by one and the person with the moving hand is selected as the player. This option is recommended when Auto mode has trouble detecting the appropriate player.

Most Center

The person whose position is closest to the center of the Camera View is selected as the player. This option is recommended when there is a lot of movement in the Camera View background.

Brightness of Status LED

Adjust brightness of the ZKOO status LED using the slider.

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

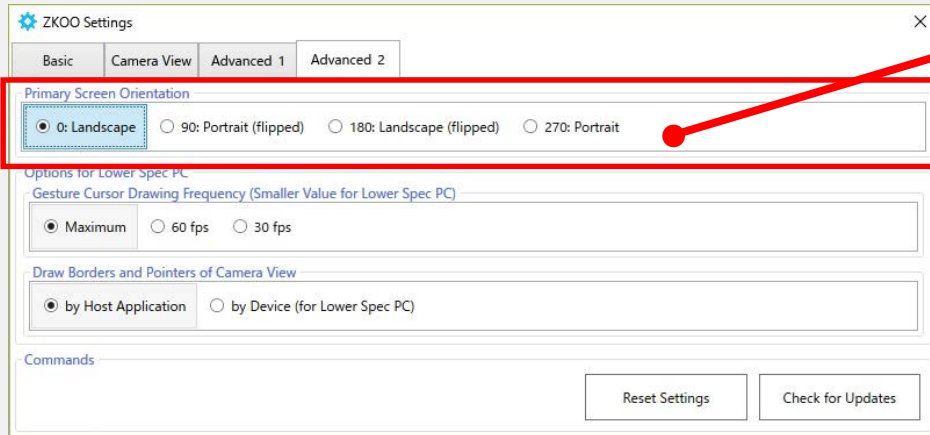
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_2

1

Primary Screen Orientation

This setting is used for screen rotation capable devices, such as Tablet PCs.

0:Landscape

Default.

90:Portrait(flipped)

Select when a device is used vertically.

180:Landscape(flipped)

Select when a device is used while rotated 180 degree.

270:Portrait

Select when a device is used while rotated 270 degree.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

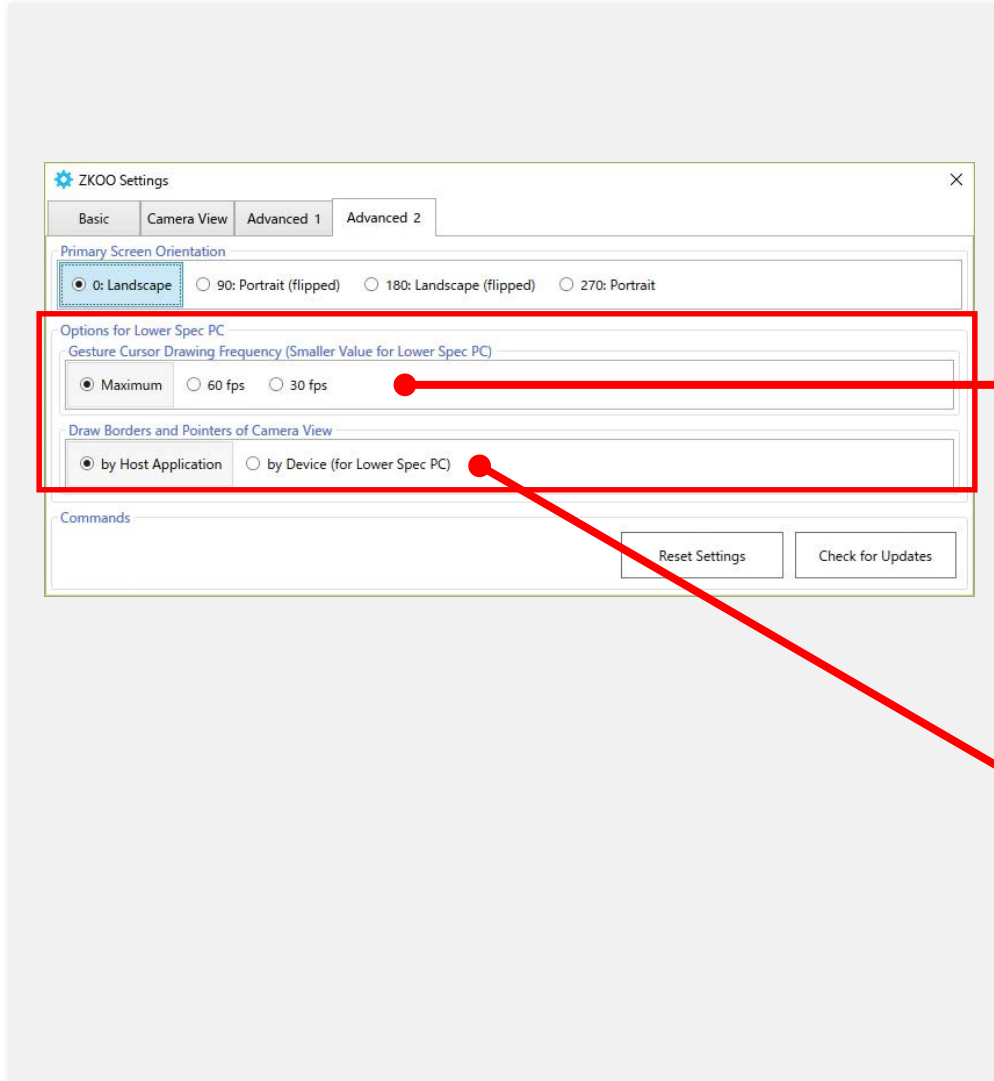
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_2

2

Options For Lower Spec PC

Please try using this option when the cursor significantly lags behind the actual movement of the hand. This may happen with relatively low spec PCs.

Gesture Cursor Drawing Frequency

Maximum

Select this option if there is no cursor latency issue.

60Fps

When there is a slight cursor lag, select this option.

30Fps

When there is a significant cursor lag, select this option.

Draw Borders and Pointers of Camera View

By Host Application

Normal GUI (graphical user interface) in the Camera View is shown.

By Device(for Lower Spec PC)

GUI (graphical user interface) in the Camera View is simplified.

4. Settings Menu Details

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

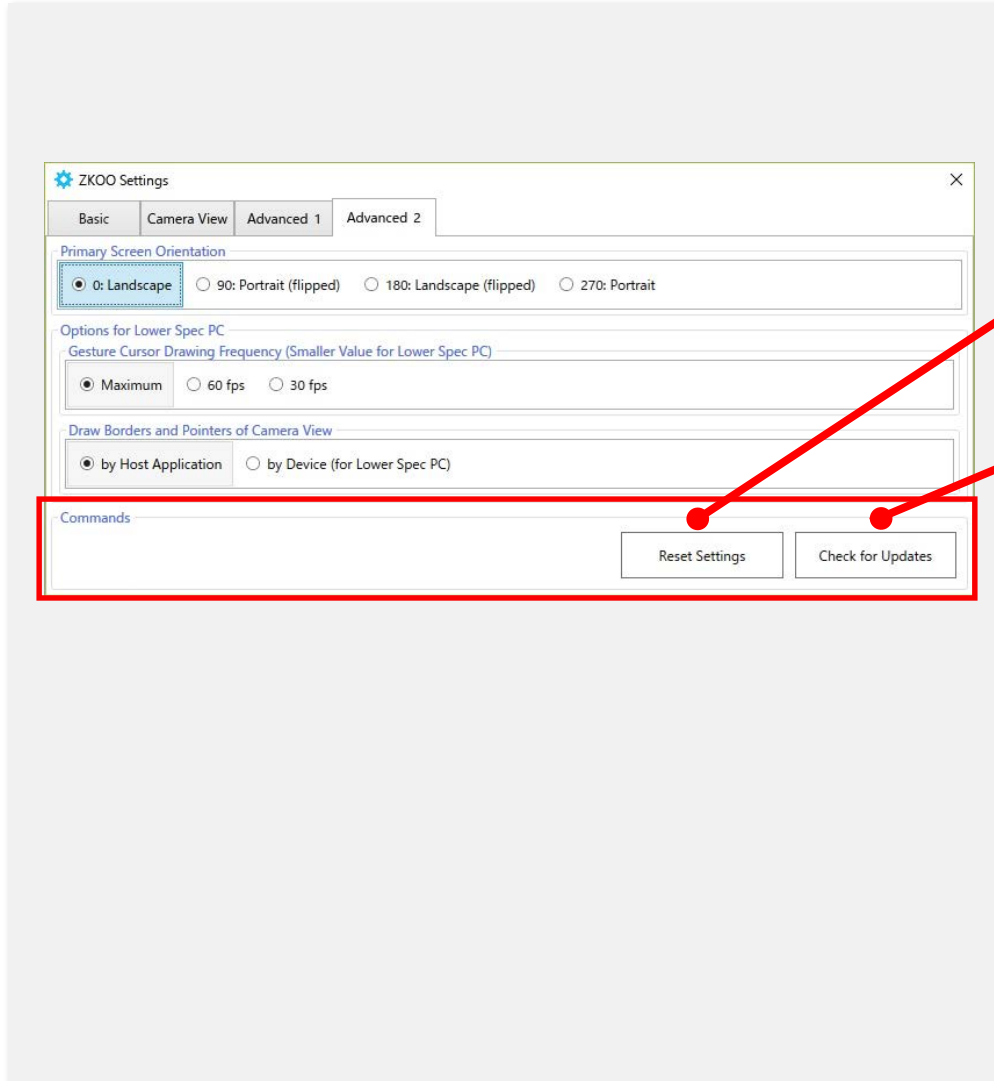
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Advanced_2

3

Commands

Reset Settings

Resets all settings to their defaults.

Check for Updates

Check for the latest ZKOO application updates.

5. Exit

1. Start

2. Camera View

3. Opening Settings Menu

4. Settings Menu Details

-01 _Basic 1

-02 _ 2

-03 _Camera View 1

-04 _ 2

-05 _ 3

-06 _Advanced_1 1

-07 _ 2

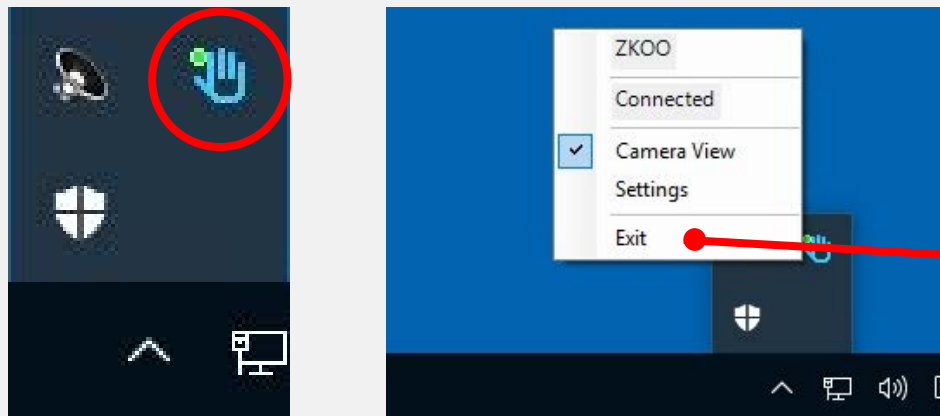
-08 _ 3

-09 _Advanced_2 1

-10 _ 2

-11 _ 3

5. Exit



Exiting ZKOO application

There are 2 options to exit ZKOO application.

1. Exit ZKOO application from a menu in the Camera View

A menu is shown in the Camera View when it is tapped or clicked.

Exit

Tap or Click on Exit to exit ZKOO application.

2. Exit ZKOO application from Windows System Tray

Context menu is shown when ZKOO icon in Windows System Tray is right-clicked.

Exit

Select Exit to exit ZKOO application.