

How to Cast Screen of Handheld Thermography Camera

(2022-05-12)

This document mainly introduces the way to cast camera screen by USB. More approaches such as mobile App and HDMI are introduced in the [Appendix](#). Please refer to user manuals of HIKMICRO Handheld Thermography cameras in the official website for more functions. <https://www.hikmicrotech.com/en/product-c/8>

UVC is short for USB Video Class that describes devices capable of streaming video. Know more in https://en.wikipedia.org/wiki/USB_video_device_class.

UVC Software & Supported HIKMICRO Device

1. ThermometryClient (a free PC client developed by HIKMICRO)
 Link to download this HIKMICRO UVC Alarm App
<https://hikmicrotech.box.com/s/2mzocaxemyokd9nkIm3sg7wa9ssg7w4x>
2. PotPlayer (a player client)
 Link to download this popular freeware player
<https://potplayer.daum.net/>

Model	Latest FW Version	HIKMICRO UVC Client	UVC via PotPlayer
Pocket1	5.5.25	✓	✓
Pocket2	5.5.25	✓	✓
E1L	5.4.44	✗	✗
B1L	5.5.15	✓	✓
B10	5.5.37	✓	✓
B2L	5.5.15	✓	✓
B20	5.5.37	✓	✓
M10	5.5.19	✗	✓
M30	5.5.19	✗	✓
G40	5.5.19	✗	✓
G60	5.5.19	✗	✓
SP60	5.5.26	✓	✓

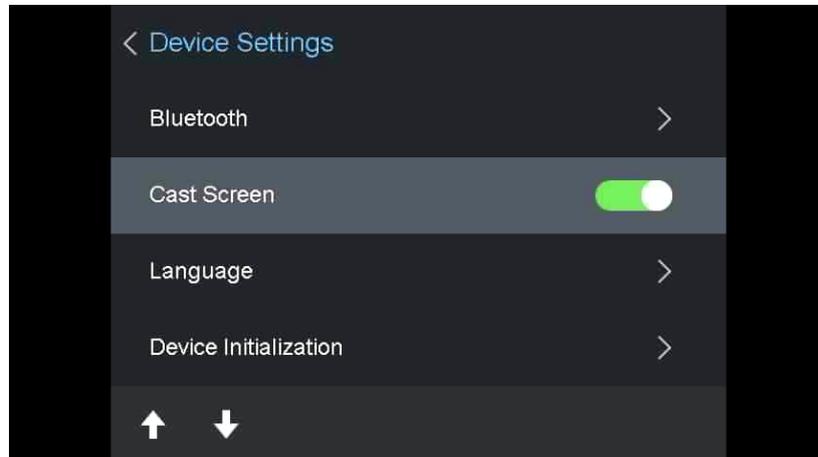
Notes:

- HIKMICRO UVC Alarm App is named ThermometryClient working in Windows systems.
- A freeware, PotPlayer, is recommended to live UVC camera in Windows systems.
- The USB cable (Type C to Type A)  contained in the gift box is recommended. Other types of cables or converters are not suggested for their applicability.
 - o Other types of cables may not support the communication protocol.
 - o The handheld cameras do not supply driving power to external devices such as a converter.
- Enabling Cast Screen function is mandatory for UVC applications.
- Image of palette and most menus (see exceptions in the next item) are consistently displayed between camera's local screen and two PC clients.
- Menu options in an on-screen menu bar cannot be casted, but sub-menus under the menu options can be casted.
 - o Pocket series has an on-screen menu bar on the right of the touch screen. Back, file, and settings are the available keys in the menu bar.
 - o SP series has an *on-screen menu bar* at bottom of the touch screen. FFC shutter, level & Span, palette options, thermography rules, image mode, and settings are the available keys in the menu bar.
- Image quality in clients may be not as good as camera's local screen due to stretched images or incorrect aspect ratio settings.

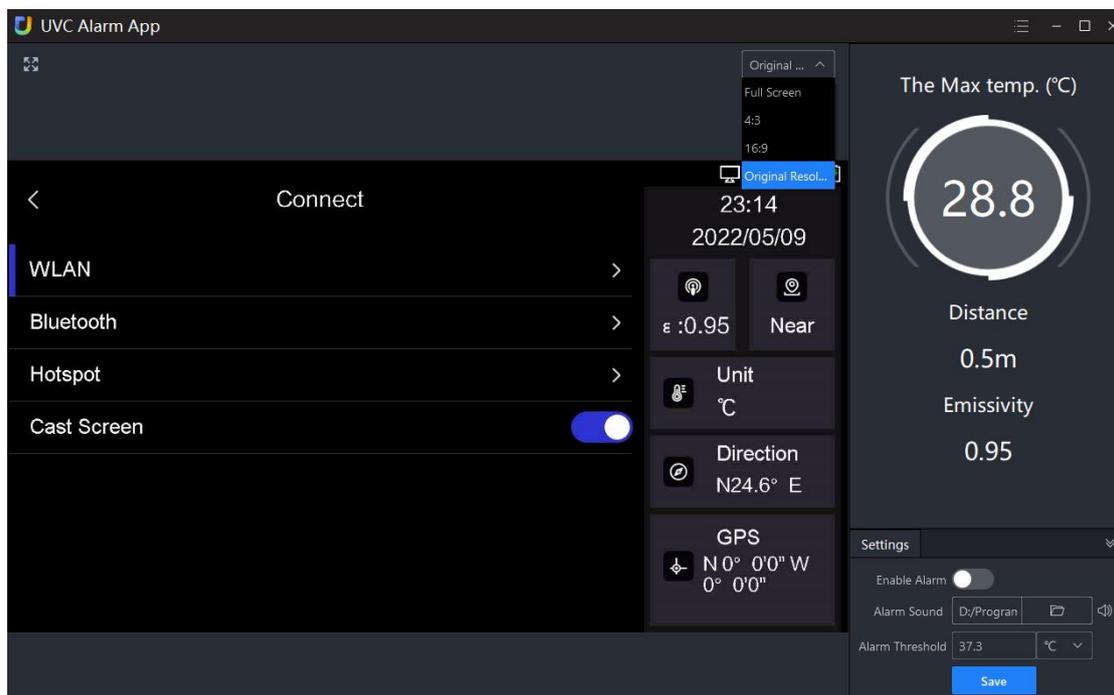
ThermometryClient

● Steps

1. Enter camera's **Local Settings**.
2. In **Device Settings** or **Connect** (varying by model), enable **Cast Screen** function.



3. Connect the device with a computer through USB cable.
4. Run software ThermometryClient in the computer to open it, UVC Alarm App.
5. Camera can be automatically lived, if it supports this client.



Note:

- You can change the aspect ratio options in the upper right corner for different visual experience. Original Resolution is recommended.
- Sub-menus, information panel (applicable to SP series only), and image of palette are casted.

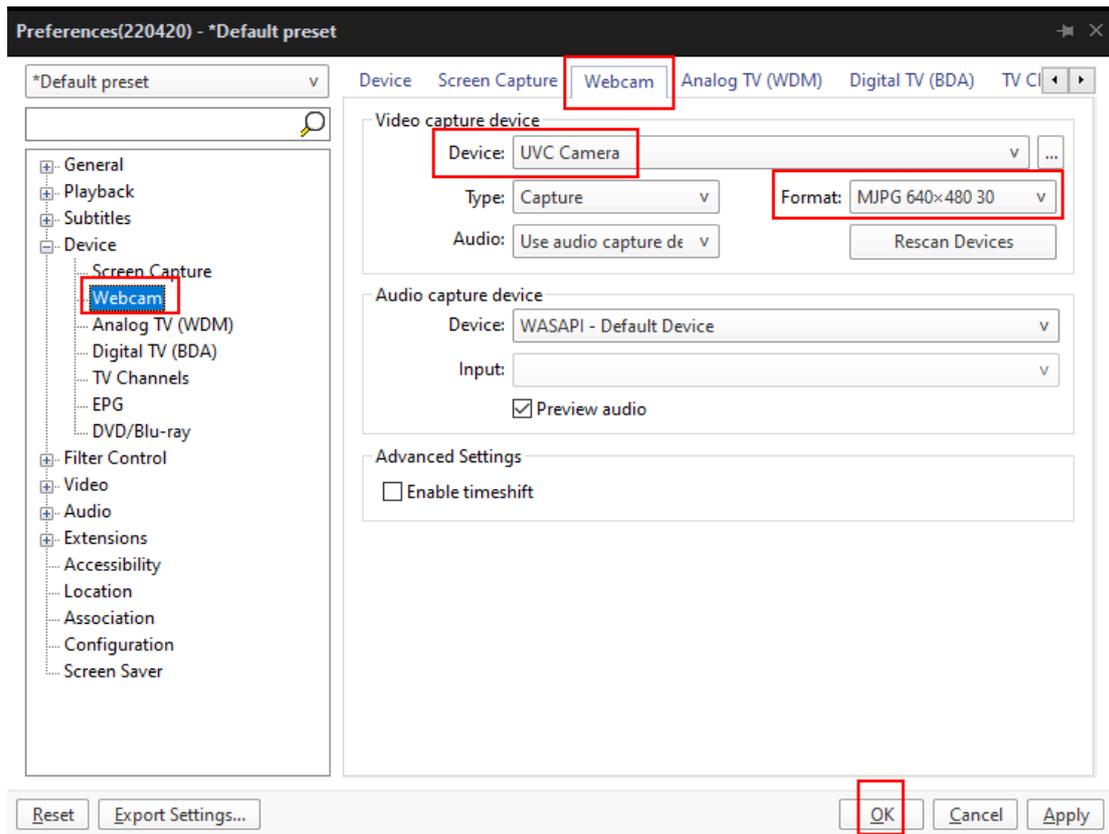
PotPlayer

● Steps

1. Enter camera's **Local Settings**.
2. In **Device Settings** or **Connect** (varying by model), enable **Cast Screen** function.
3. Connect the device with a computer through USB cable.



2. Run the freeware PotPlayer in the computer.
3. Press shortcut key **F5** or right-click in the player to enter the **Preferences** page.
4. Select **Device** and then **Webcam** in the left column in this page.
5. Select **UVC Camera** or **HIKCAM** (varying by model) in the dropdown list of **Device**.
6. Select **MJPEG 640x480 30** in the dropdown list of format.
7. Click **Apply** to apply the changes.
8. Click **OK** to save the changes and shut down the window.



Or

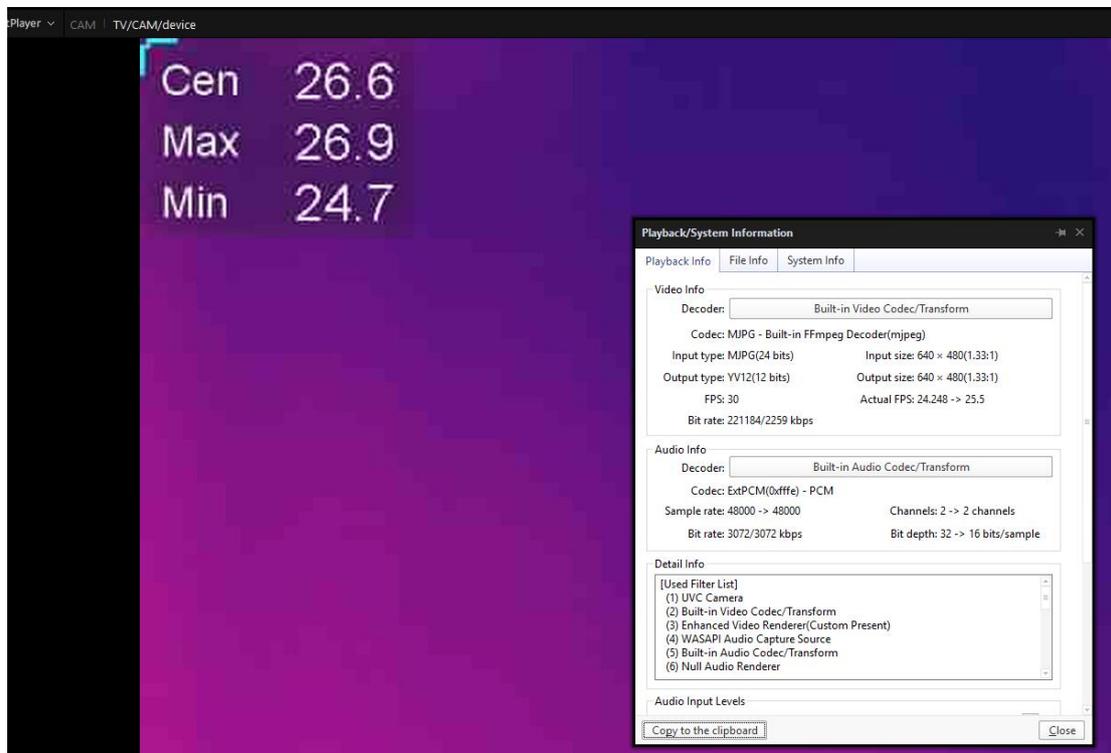


9. Press combo keys **Ctrl + J** to live the camera in PotPlayer.



Notes:

- You can change the aspect ratio options for different visual experience.
- You can press combo keys **Ctrl + F1** to check video and audio information.



Appendix

More approaches to share the camera screen.

Model	Latest FW Version	HIKMICRO Viewer with Wi-Fi	HDMI
Pocket1	5.5.25	✓	✗
Pocket2	5.5.25	✓	✗
E1L	5.4.44	✗	✗
B1L	5.5.15	✓	✗
B10	5.5.37	✗	✗
B2L	5.5.15	✓	✗
B20	5.5.37	✓	✗
M10	5.5.19	✓	✗
M30	5.5.19	✓	✗
G40	5.5.19	✓	✗
G60	5.5.19	✓	✗
SP60	5.5.26	✓	✓

Notes:

- Visual delay occasionally occurs in network streaming cases such as HIKMICRO Viewer. The delay is probably caused by network environment. Please optimize the environment when a delay seriously occurs.
- You can download a mobile App HIKMICRO Viewer and share the handheld camera screen to mobile phone in Wi-Fi or Hotspot connection. Image of palette and most menus (see exceptions in the next item) are consistently casted in the display. See more functions in user manual in HIKMICRO Viewer.
 - o <https://www.hikmicrotech.com/en/storage/images/HIKMICRO%20Viewer%20Download%20Method.pdf>
- Menu options in an on-screen menu bar cannot be casted in any way, but sub-menus under the menu options can be casted.
- For models (SP60, so far) supporting screen cast through HDMI, an HDMI

cable (Type D to Type A)  is included in the camera gift box.

After connecting the handheld camera and a display via the HDMI cable, the camera screen would cast sub-menus, information panel (applicable to SP series only), and image of palette to the display. Menu options in SP60's on-screen menu bar cannot be casted (see [Notes](#) in UVC Software & Supported HIKMICRO Device).

Remarks:

- Please use this Document with the guidance and assistance of professionals trained in supporting the Product.
- Pictures, charts, images and all other information hereinafter are for description and explanation only.
- HIKMICRO reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The HIKMICRO firmware may contain errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.
- HIKMICRO is not liable for any typing or printing errors.

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