

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 <u>Appendix</u>. Please refer to user manuals of HIKMICRO Handheld Thermography cameras in the official website for more functions. <u>https://www.hikmicrotech.com/en/product-c/8</u>

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

UVC Software & Supported HIKMICRO Device

- ThermometryClient (a free PC client developed by HIKMICRO) Link to download this HIKMICRO UVC Alarm App <u>https://hikmicrotech.box.com/s/2mzocaxemyokd9nklm3sg7wa9ssg7w4x</u>
- PotPlayer (a player client)
 Link to download this popular freeware player <u>https://potplayer.daum.net/</u>

Model	Latest FW Version	HIKMICRO UVC Client	UVC via PotPlayer	
Pocket1	5.5.25	V	V	
Pocket2	et2 5.5.25 v		√	
E1L	5.4.44	×	×	
B1L	1L 5.5.15 v		V	
B10	5.5.37	V	V	
B2L	5.5.15	V	V	
B20	5.5.37	V	V	
M10) 5.5.19 ×		V	
M30	5.5.19	5.5.19 ×		
G40	5.5.19	×	٧	
G60	5.5.19	×	V	
SP60	5.5.26	V	V	



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.

- Other types of cables may not support the communication protocol.
- 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.
 - 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.
 - 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.

< Device Settings		
Bluetooth	>	
Cast Screen		
Language	>	
Device Initialization	>	
+ +		

- 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.

UVC Alarm App					≡ - □ ×
53 			F 4	Original ^ full Screen I:3 6:9	The Max temp. (°C)
<	Connect		⊑ c 23: 2022/	0. 14 05/09	28.8
WLAN		>	P	Q	
Bluetooth		>	€ :0.95	Near	Distance
Hotspot		>	Unit	t	0.5m
Cast Screen			°C		Emissivity
			Ø N24	ection I.6° E	0.95
			GP:	S 0'0" W 0"	Settings × Enable Alarm Alarm Alarm Sound Dr/Progran (D) (1)
					Alarm Threshold 37.3 °C v Save

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.

	Device Settir	igs	-Norensen per		
	WLAN			>	
1	Hotspot			>	
	Bluetooth			>	
	Cast Screen		(
1	+ +			×.	

- 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 **MJPG 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.

	See the World in a New Way
Preferences(220420) - *Default preset	× +
*Default preset v	Device Screen Capture Webcam Analog TV (WDM) Digital TV (BDA) TV Cl Video capture device V Video capture device V Audio: Use audio capture d€ V Audio: Capture device Device: WASAPI - Default Device V Input: V Preview audio Advanced Settings Enable timeshift
Reset Export Settings	<u>OK</u> <u>Cancel</u> <u>Apply</u>

Or

Video c	apture dev	vice	_		
	Device:	HIKCAM			v
	Туре:	Capture	v	Format:	MJPG 640×480 30 v
	Audio:	Use audio o	capture de 🔍		Rescan Devices

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.

Cen	26.6	
Max	26.9	
Min	247	
	27.1	Playback/System Information +
		Playback Info File Info System Info
		Video Info Decoder: Built-in Video Codec/Transform Codec: MIPG - Built-in FFmpeg Decoder(mjpeg) Input type: MIPG(24 bits) Input size: 640 × 480(1.33:1) Output type: VY12(12 bits) Output size: 640 × 480(1.33:1) FPS: 30 Actual FPS: 24.248 -> 25.5 Bit rate: 221184/2259 kbps
		Audio Info
		Decoder: Built-in Audio Codec/Transform
		Sample rate: 48000 -> 48000 Channels: 2 -> 2 channels
		Bit rate: 3072/3072 kbps Bit depth: 32 -> 16 bits/sample
		Detail Info [Used Filter List] (1) UVC Camera (2) Built-in Video Codec/Transform (3) Enhanced Video Renderer(Custom Present) (4) WASAPI Audio Capture Source (5) Built-in Audio Cadec/Transform (6) Null Audio Renderer
		Audio Input Levels
		Copy to the clipboard



<u>Appendix</u>

HIKMICRO Viewer Model Latest FW Version HDMI with Wi-Fi 5.5.25 Pocket1 v × Pocket2 5.5.25 v × E1L 5.4.44 × × ٧ B1L 5.5.15 × B10 5.5.37 × × B2L 5.5.15 v x B20 5.5.37 ٧ × M10 5.5.19 ٧ × M30 5.5.19 ٧ × G40 5.5.19 v × G60 5.5.19 ٧ × SP60 5.5.26 ٧ ٧

More approaches to share the camera screen.

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.
 - <u>https://www.hikmicrotech.com/en/storage/images/HIKMICRO%20Vie</u> wer%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)

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 <u>Notes</u> in UVC Software & Supported HIKMICRO Device).



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