j5create

Dual HDMI™ Video Capture

2 HDMI™ to USB-C™ with Power Delivery 60W

JVA06

JVA06-EFP2 Settings Tool Guide

JVA06-EFP2 Settings Tool Guide

Chroma Key Function Guide

* Special note: The Chroma Key application is only compatible with Windows® 7 / 10
JVA06 Settings Tool (Windows®):
download.j5create.com/driver/jva06_windows_efp2settingstool/download.php

Function Description:
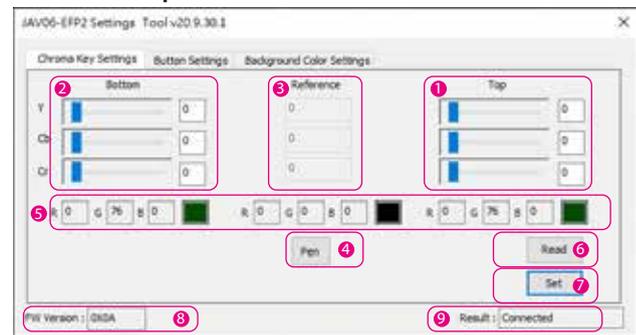
❶ **Chroma Key Top/Foreground:** The chromatic value can be changed manually by dragging the slider, scrolling the mouse wheel, using the up and down arrow keys or typing the value into the box.
❷ **Chroma Key Bottom/Background:** The chromatic value can be changed manually by dragging the slider, scrolling the mouse wheel, using the up and down arrow keys or typing the value into the box.
❸ **Chroma Key - Reference value**
The sample **YCbCr** value that was taken by the [PEN] tool.
❹ **Chroma Key -Sampling Tool**
After clicking [PEN], you can press the left mouse button anywhere on the screen to get the color information of that point.
❺ **RGB reference**
Convert the corresponding **YCbCr** to RGB reference.
❻ **Read button**
Reads the Chroma Key Top and Bottom values from the JVA06 device.
❼ **Set button**
Writes the Chroma Key Top and Bottom values from the settings tool to the JVA06 device.
❽ **Firmware version**
Displays the firmware version of the JVA06.
❾ **Result**
Operation message notification.

Chroma Key Top and Bottom settings instructions

✱ The Top value must be greater than the reference value
✱ The Bottom value must be smaller than the reference value
✱ In most cases the Y range needs to be larger

✱ This example is for reference only, users can try different values or fine-tune the values to achieve the best results.

Operation step process

1. Connect one of the included USB™ cables to either a USB-C™ or Type-A port on the computer and to the USB-C™ port on the JVA06 labeled [HOST]
2. Connect the signal source to [HDMI In A] as the base image, and connect the signal source to [HDMI In B] to remove the background.
3. Open a video capture application, such as OBS™, Windows® built-in camera software, VLC™ etc., and change the settings within your video capture application so that the video captured from the JVA06 displays within the capture application (refer to the settings guide for the capture software you are using)
4. Press the [AB] button on the device to set the video mode to [AB] picture-in-picture.
5. Open the JVA06-EFP2 Settings Tool.
6. After clicking the [Pen] sampling tool, move the mouse to the place where you want to remove the background in the image preview window, click the left mouse button, and the program will automatically fill in the pixel information in the Top and Bottom and reference fields.
7. Manually adjust the value of the Top and Bottom settings.
8. Press the [Set] button to write the set values into the device.
9. Press the [AB] + [BA] keys on the device at the same time for 2 seconds; the screen displays [CHROMAKEY ON]. At this time, the picture displayed should show a chroma keying effect. (You can repeat Step 7 and Step 8 to achieve the best results)
10. Press the [AB]+[BA] keys on the device at the same time for 2 seconds, the screen displays [CHROMAKEY OFF]. This will remove the chroma keying effect so that the original image is displayed again.

<Notes>
✱ The Top and Bottom values will be stored in the JVA06 device.
✱ Chroma Key On/Off values will not be stored, it will be Off every time it is turned on, and it needs to be turned on manually.
✱ The device capturing the background that is to be hidden needs to be connected to [HDMI In B].

Image mode description

✱ If the [HDMI In B] screen appears, the [HDMI In A] screen will retain the size of the previous mode

	Original mode	After pressing the [B key]
[A]	[A] [AB]	
[A] [B]		
[A] [B]		
	[BA]	
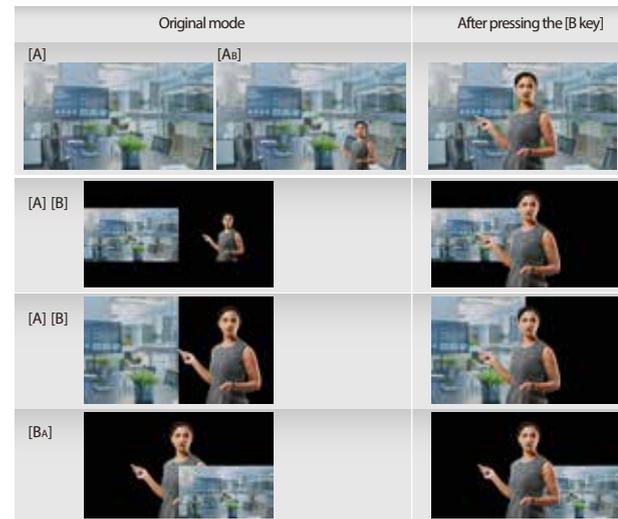
Button Settings

Users can set the function of the [A] and [B] keys on the JVA06 through the Button Settings function.

Mode description
Normal Mode:
* The screen will switch to [HDMI In A] after pressing the [A] key, and the screen will remain at [HDMI In A] after pressing the [A] key again.
* The screen will switch to [HDMI In B] after pressing the [B] key, and the screen will remain at [HDMI In B] after pressing the [B] key again.

Loopback Mode:
* Press the [A] key and the screen will switch to [HDMI In A], and press the [A] key again and the screen will switch to [HDMI In B].
* Press the [B] key and the screen will switch to [HDMI In B], press the [B] key again and the screen will switch to [HDMI In A].
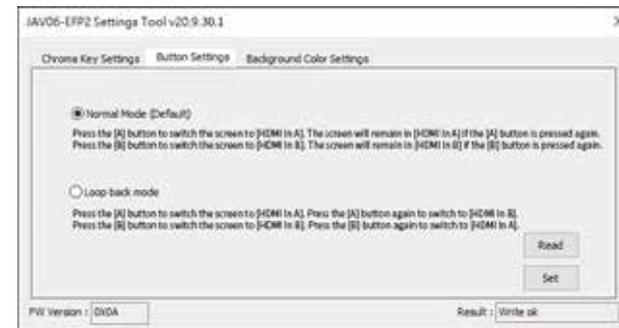
Background Color Settings

The solid color background from the JVA06 can be changed through these settings.

Switch mode description
Follow Chroma Key On/Off:
* When the Chroma Key is activated, the background color will change to the color specified by the user.
* When the Chroma Key is turned off, the background color will change to black.

Always On: * The background always keeps the color specified by the user
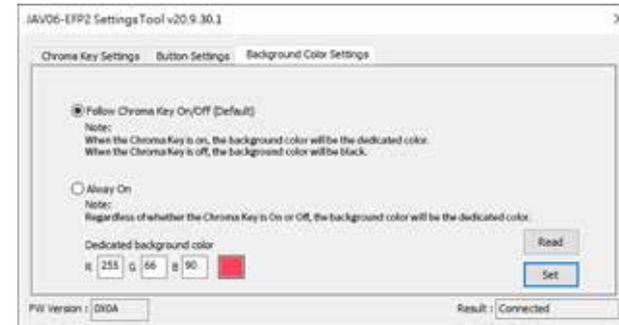
Example:

JVA06-EFP2 Chroma Key 設定說明

Chroma Key Function Guide
*使用Chroma Key 設定工具前需先更新至最新版韌體。
Chroma Key 設定工具下載網址(Windows® 7 / 10):
download.j5create.com/driver/jva06_windows_efp2settingstool/download.php

<Chroma Key Settings> 功能說明:
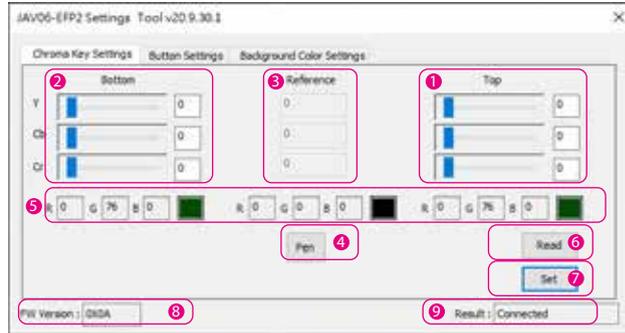
❶ **Chroma Key上界**: 可透過拖拉滑桿、滑鼠滾輪、上下鍵或直接輸入。
❷ **Chroma Key下界**: 可透過拖拉滑桿、滑鼠滾輪、上下鍵或直接輸入。
❸ **參考Key**
　供參考的YCbCr值。
❹ **參考Key取樣工具**
　點選[PEN]後,可在畫面任意位置按下滑鼠左鍵,即可取得該點的顏色資訊。
❺ **RGB參考**
　將對應的YCbCr轉換成RGB參考。
❻ **讀取按鈕**
　讀取裝置中的Chroma Key上下界設定。
❼ **寫入按鈕**
　將Chroma Key上下界寫入裝置中。
❽ **韌體版本**
　顯示連接這台硬體的韌體版本。
❾ **訊息**
　操作訊息通知。

Chroma Key上下界設定教學

※上界的值要大於參考值
※下界的值要小於參考
※通常Y的範圍需較大值

※此範例僅供參考,使用者可以嘗試不同數值或微調數值來達到最佳效果。
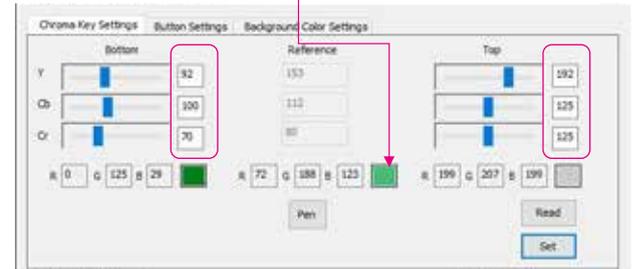
操作步驟流程

1. 將JVA06 [HOST]埠連接至電腦。
2. 將作為底圖的訊號源連接至[HDMI In A],並將欲去除背景的訊號源連接至[HDMI In B]。
3. 開啟影像擷取軟體, 例如: OBS™、Windows®內建相機軟體, VLC......等, 並成功取得JVA06影像。(可參考OBS™ 設定教學)
4. 按下裝置上的 [AB]鍵,將影像模式設定至AB子母畫面。
5. 打開JVA06-EFP2 Setting Tool。
6. 點選[Pen]取樣工具後,將滑鼠移至影像預覽視窗中的欲去除背景處,按下滑鼠左鍵,程式會自動將該像素的資訊填入上下界及參考欄位。
7. 手動調整上下界的數值。
8. 按下[Set]按鈕,將設定值寫入裝置中。
9. 同時按下裝置上的[AB]+[BA]鍵2秒後,畫面顯示[CHROMAKEY ON],此時畫面呈現去背的疊加效果(可重複步驟7.8.以達到最佳效果)
10. 同時按下裝置上的[AB]+[BA]鍵2秒後,畫面顯示[CHROMAKEY OFF],此時畫面呈原始效果。

<備註>
※上下界的值會儲存在JVA06裝置中。
※Chroma Key On/Off 設定並不會儲存,每次開機後為Off狀態,需手動開啟。
※欲去除背景的訊號源需連接至[HDMI In B]。

影像模式說明

※若切換到[HDMI In B]畫面出現,[HDMI In A]的畫面會保留上一個模式的大小

	原先畫面		按下[B] 鍵後
[A]	[AB]		
[A] [B]			
[A] [B]			
[BA]			

Button Settings

使用者可以透過此設定JVA06上的[A]和[B]鍵的功能

模式說明

Normal Mode:
*按下[A]鍵後畫面切換到[HDMI In A], 再次按下[A]鍵後畫面仍停留在[HDMI In A]
*按下[B]鍵後畫面切換到[HDMI In B], 再次按下[B]鍵後畫面仍停留在[HDMI In B]

Loopback Mode:
*按下[A]鍵後畫面切換到[HDMI In A], 再次按下[A]鍵後畫面切換到[HDMI In B]
*按下[B]鍵後畫面切換到[HDMI In B], 再次按下[B]鍵後畫面切換到[HDMI In A]

Background Color Settings

使用者可以透過此設定輸出畫面的背景顏色,以及背景顏色的開關方式

開關方式說明

Follow Chroma Key On/Off:
*當Chroma Key啟動時,背景色會變為使用者指定的顏色。
*當Chroma Key閉閉時,背景色會變為黑色。

Always On: *背景永遠保持使用者指定的顏色

範例: