

Caution, all commands in the serial console work without pressing the enter key. My command parser is indeed very basic.

Step by step instruction

to download an image with colour conversion to the board

Preparation:

TeraTerm4 download

<https://github.com/TeraTermProject/teraterm/releases/download/v4.108/teraterm-4.108.exe>

Pico_Video4 Arduino sketch

Installed on the P42-Pico-Video4 board:

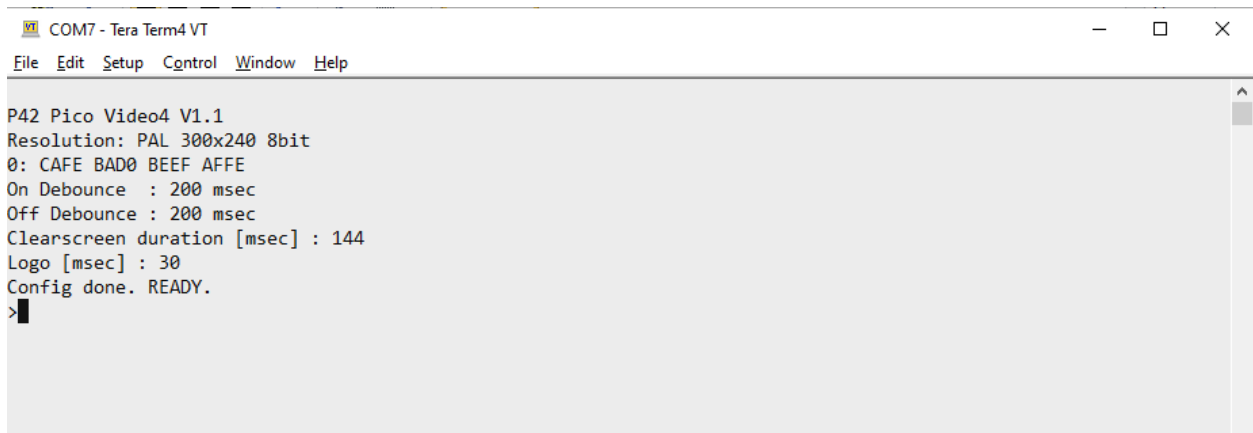
https://github.com/wolfgangfriedrich/P42-Pico_Video4/tree/main/Code/P42-Pico_Video4

Image to download shall exist as .BMP with 256 colour palette (8 bits per pixel) and size not larger than the resolution.

Teraterm4 connected to UART exposed from the Video4 board. In this example it is COM7, 19200baud, 8N1

Procedure

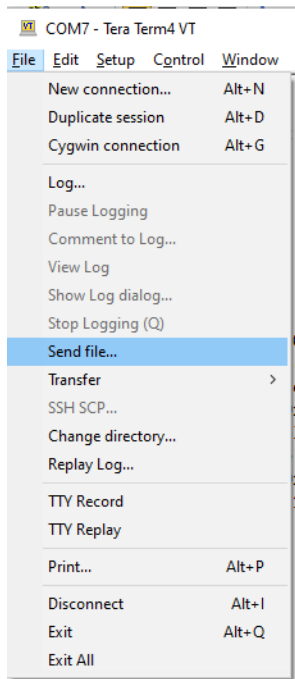
Serial console after boot should look like this.

A screenshot of a TeraTerm4 serial console window. The window title is "COM7 - Tera Term4 VT". The menu bar includes "File", "Edit", "Setup", "Control", "Window", and "Help". The console output shows the following text: "P42 Pico Video4 V1.1", "Resolution: PAL 300x240 8bit", "0: CAFE BAD0 BEEF AFFE", "On Debounce : 200 msec", "Off Debounce : 200 msec", "Clearscreen duration [msec] : 144", "Logo [msec] : 30", "Config done. READY.", and a prompt ">" with a cursor. The window has standard Windows-style window controls (minimize, maximize, close) in the top right corner.

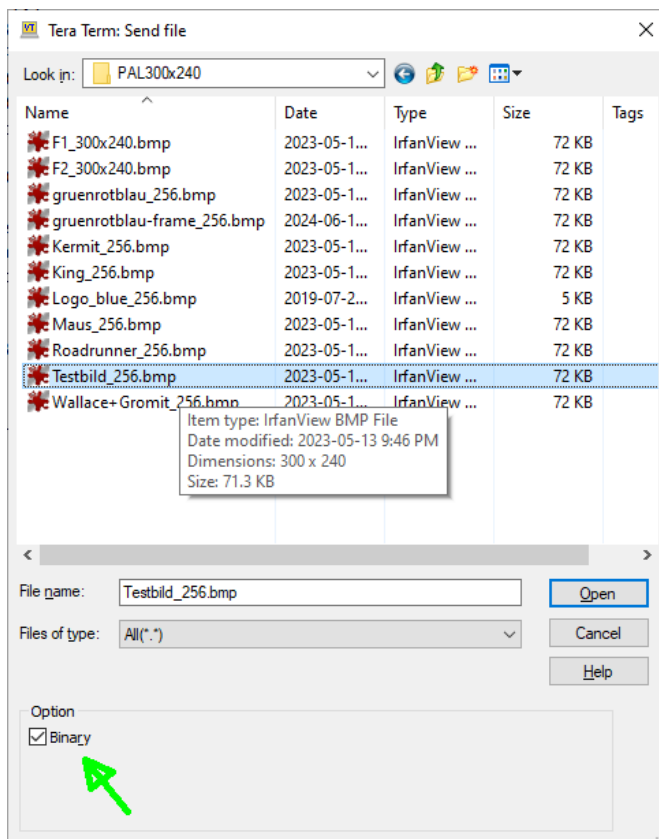
```
COM7 - Tera Term4 VT
File Edit Setup Control Window Help

P42 Pico Video4 V1.1
Resolution: PAL 300x240 8bit
0: CAFE BAD0 BEEF AFFE
On Debounce : 200 msec
Off Debounce : 200 msec
Clearscreen duration [msec] : 144
Logo [msec] : 30
Config done. READY.
>
```

To download the image into screen buffer #7 press 'i' and then '7'.



Important!!! First select Option Binary ☒ Binary and then navigate to the .BMP file for download and select it. Click Open. BTW, the 10 second timeout does not really apply, it was an Arduino serial port option, but does not kick in.



A Teraterm download window appears, showing the progress of the data transfer.

