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Koryuu Transcoder - Quick Start Guide



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Thank you for purchasing the Koryuu Transcoder. Please take time to read through this short document before you start using the unit.

Important safety information

Please observe the following safety precautions when using your Koryuu Transcoder.

Use the correct power supply – The Koryuu Transcoder is designed to run with a 5 volt barrel jack power supply unit (PSU) supplying at least 1 amp of current. The tip must be 2.1 x 5.5mm and centre positive. Please ensure your power supply meets these requirements. Never connect a power supply that supplies more than 5 volts. Doing so can damage the Koryuu Transcoder.

Turn off the power before connecting/disconnecting equipment – To prevent damage of the Koryuu's integrated circuits, always turn off the power before connecting to a display or a device.

Be careful when connecting and disconnecting cables – Do not apply excessive force. Some component video cables attach too tightly and can damage your Koryuu. Use a cable that fits firmly without needing excessive force to insert or remove it.

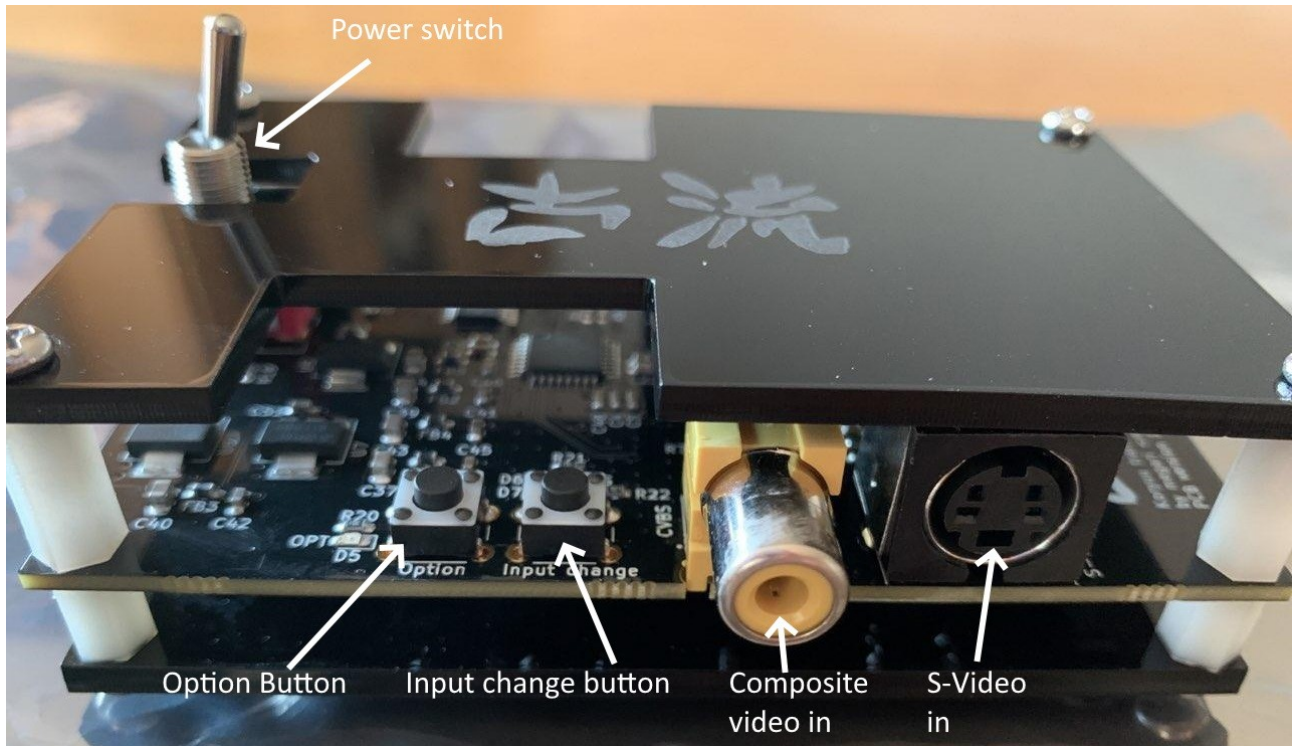
Do not expose to moisture – Droplets of moisture may contact the PCB and cause a short circuit. Never submerge the unit in water.

Keep away from fire or high heat sources – Koryuu Transcoder is not flammable but high temperatures, such as those from a fire or electric heater may melt the plastic casing.

Please supervise children – Koryuu Transcoder is not a toy and is not designed for use by children. Please supervise children if they use the Koryuu Transcoder.

Overview

Koryuu Transcoder Front



Option Button – This button is reserved for options available in future firmware updates. Currently, pressing the button will toggle a smoothing filter, but this feature is not correctly implemented yet.

Input change button – Press this button to cycle through the input modes. There are currently four input modes:-

1. Composite video (CVBS)
2. Composite video + pedestal (7.5 IRE mode)
3. S-Video (YC)
4. S-Video + pedestal (7.5 IRE mode)

When powered on, the Koryuu defaults to input mode 1. Press the Input change button to cycle through the available modes. When in mode 4, pressing the input change button again will cycle back to mode 1.

7.5 IRE mode may be required for certain sources (e.g video cassettes). If the picture is too light, try 7.5 IRE mode.

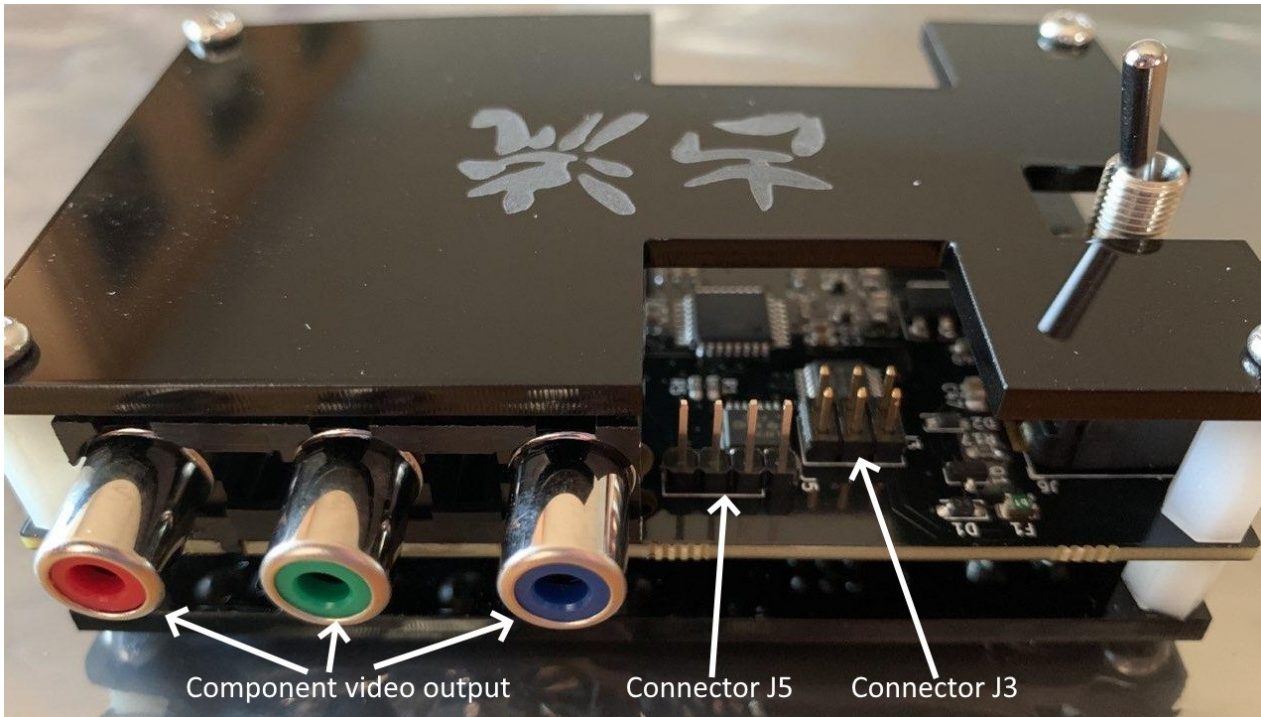
Composite video in – Connect a standard composite video (CVBS, usually a single yellow cable) to this input.

S-Video in – Connect a standard S-Video (separate video or Y/C) cable to this input. Insert the cable carefully and check for the correct orientation. Inserting the cable at an angle or forcing it into place can damage the cable and/or the Koryuu.

If your device has both composite video and S-Video outputs, you should use S-Video for the best picture quality.

Power Switch – Toggle power on and off using this switch.

Koryuu Transcoder Back



Component video output – Connect a component video cable from the output connectors to your OSSC, display, capture card or other video device. All three component video cables must be connected in the correct order to achieve the correct video output. Please match the colours of the plugs with the colours on your target display or video device and remember the order of the plugs may not be consistent across devices.

On the Koryuu the plugs are colour coded as follows:-

- Pr – Red
- Y – Green
- Pb - Blue

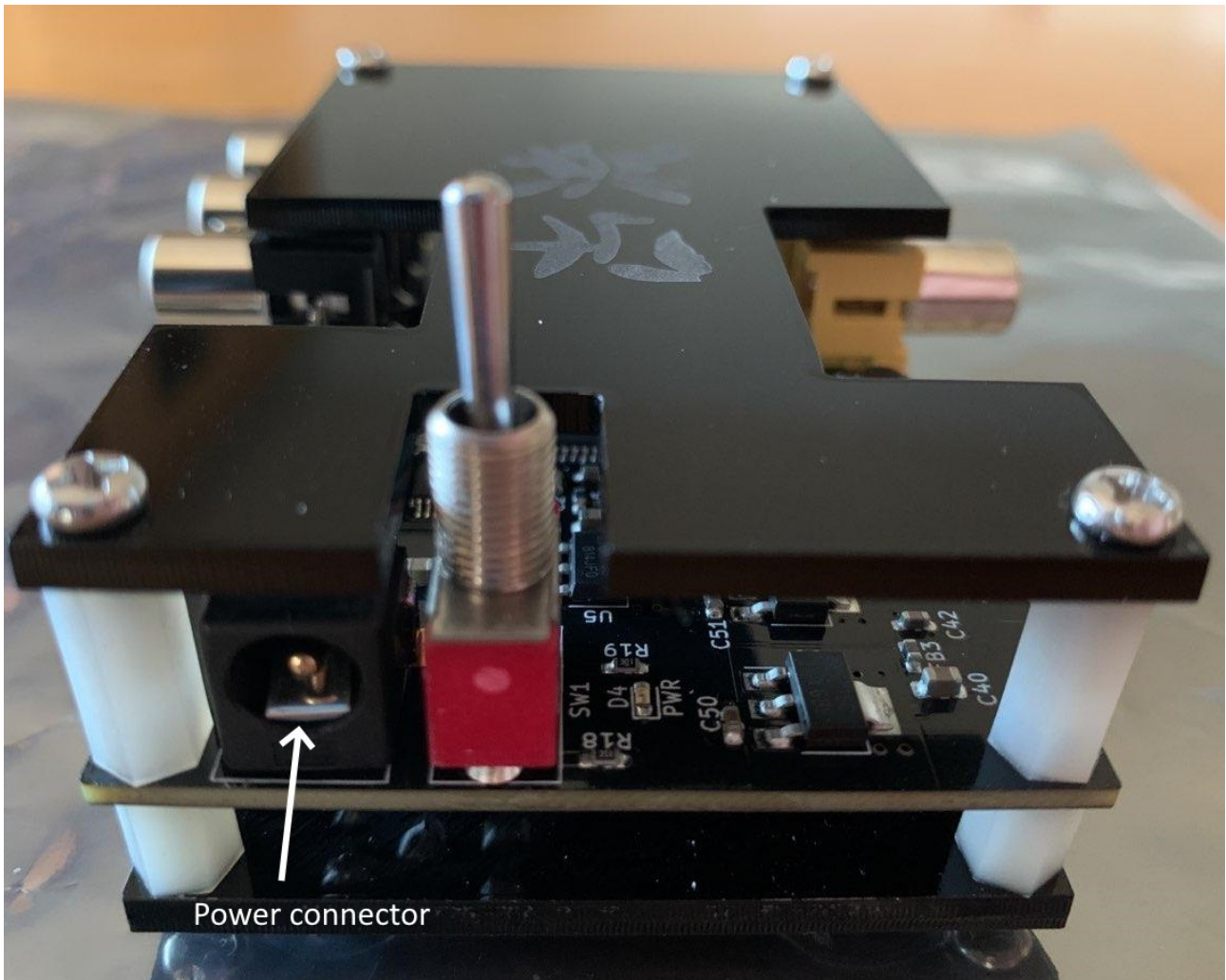
Note that Koryuu cannot work in reverse, it cannot convert component video to composite or S-video.

Connector J5 – This connector is used for debugging and development and is not needed in normal operation.

Connector J3 – This connector is used for firmware updates. A USB Asp or similar programmer is required for this. As firmware updates are launched, a tutorial on how to update your Koryuu will be posted on our website.

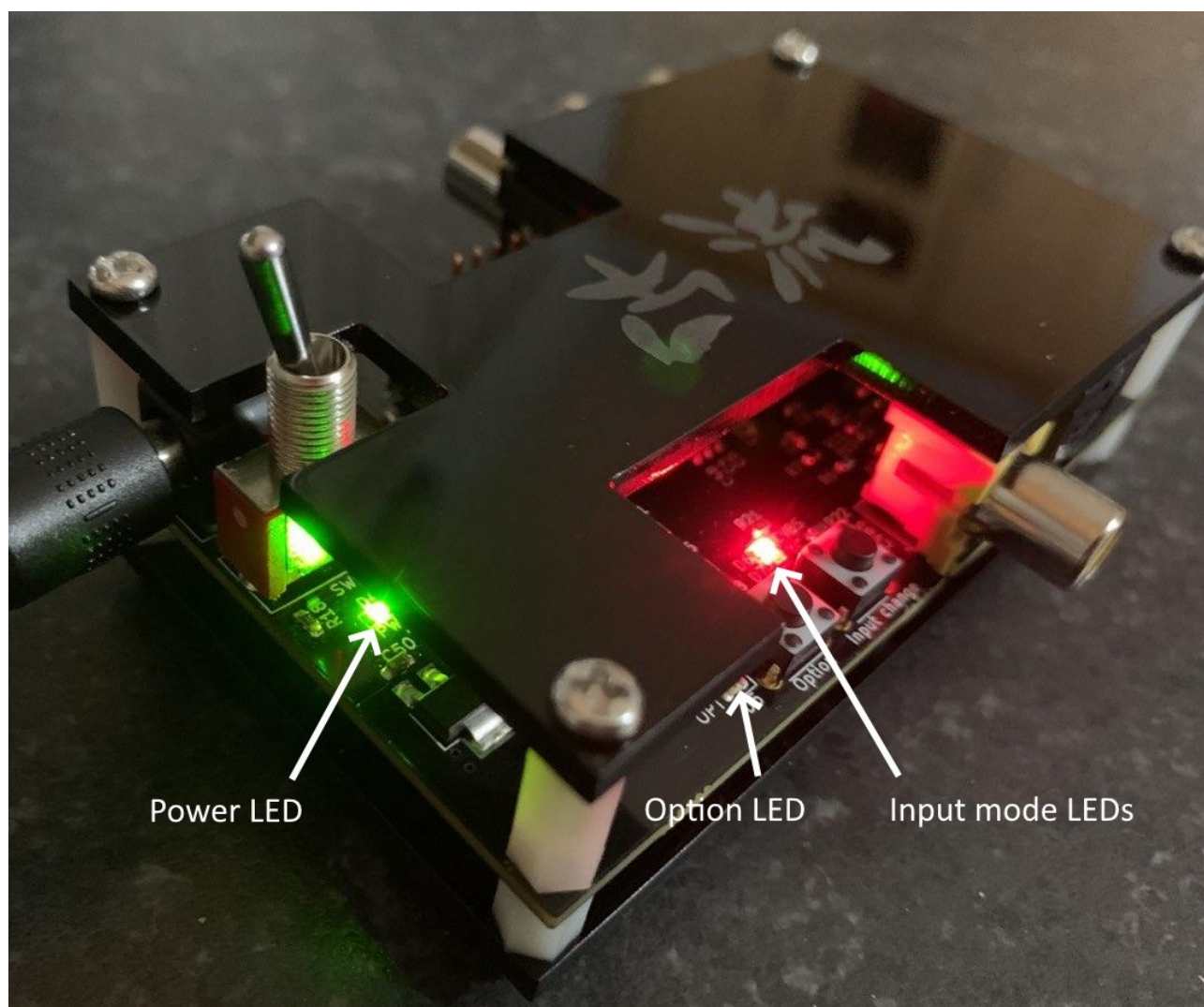
Note that the Koryuu does not input or output audio signals. Connect any required audio input directly to your display or video processor.

Koryuu Transcoder Side



Power connector – The Koryuu Transcoder is designed to run with a 5 volt barrel jack power supply unit (PSU) supplying at least 1 amp of current. The tip must be 2.1 x 5.5mm and centre positive. Please ensure your power supply meets these requirements. Never connect a power supply that supplies more than 5 volts. Doing so can damage the Koryuu Transcoder.

Koryuu Transcoder LEDs



The Koryuu Transcoder has four LED (light emitting diodes) that illuminate to indicate various modes of operation. In the picture above we can see the location of these LEDs.

Power LED – This LED will illuminate green whenever the Koryuu is powered on.

Option LED – This LED will illuminate red whenever the Koryuu’s option mode is enabled. This is expected to be utilised in future firmware revisions.

Input mode LEDs – There are two LEDs located at this position. When the unit is in composite video input mode, the bottom LED will illuminate red. When the unit is in S-Video input mode, the top-most LED will illuminate green.

Using the Koryuu Transcoder

Connect a suitable 5 volt DC power adapter to your Koryuu transcoder.

Connect your Koryuu transcoder to your display, capture device or secondary video processor using component video cables.

Power on your display, your Koryuu and your other video device, if applicable. If everything is connected correctly, you will see a test pattern showing vertical bars of colour. Each bar should be a unique colour.

You can now power off the Koryuu and attach a video source to either the composite video or S-video input. If connecting an S-video source, use the Input change button to select the correct input.

Using the Koryuu Transcoder with the OSSC

The Koryuu Transcoder is ideal for use with the OSSC and can add composite video and S-video connections to your OSSC device.

Simply connect your Koryuu to the AV2 input on the OSSC, select AV2 (YPbPr) input on your OSSC and then feed your source signal into the Koryuu using either of the two inputs.

All picture processing modes are available on the OSSC as normal. Please remember that composite video in particular produces a significantly degraded image compared to RGB or native YPbPr/component video sources. Always use S-Video or better where possible.

Using the Koryuu Transcoder with other devices

Koryuu can be used with any video device that accepts standard component video (YPbPr) input. Professional video monitors, capture cards or recording devices should all be compatible.

Note that Koryuu has been designed for use with classic computers and video game consoles specifically. Compatibility or trouble free operation with video cassette/VHS players in particular cannot be guaranteed, due to the often unstable nature of the signal from these devices.

Troubleshooting

Symptom	Possible Cause	Solution
No image	Sync lost	Power cycle Koryuu Transcoder.
No image or image with wrong colours	Output cables not connected correctly	Check that the output cables are connected in the correct order.
Koryuu shows only static colour bar image	Wrong input selected	Press Input change button repeatedly until the correct image appears. If no image appears after 4 presses, check composite or S-video cable connection and status of source device.
Blurry image	Option button pressed	Press option button again to disable this mode. This button is reserved for future options and does not work yet.
Image has a vertical flicker/shimmer effect	Interlace source connected	This is normal, no action is required.
Picture is black and white	Poor quality or off-spec composite video signal	Try another composite video cable, adjust tracking on VCR if applicable. For modified games consoles, change the consoles region.
Koryuu Transcoder resets itself	Power supply insufficient	Use a different PSU that provides at least 1 amp of current.

More information

For technical support with your Koryuu, visit the support forums here - <https://videogameperfection.com/forums/forum/koryuu-transcoder/>

Disposing of your Koryuu Transcoder



If your Koryuu Transcoder malfunctions, please contact us via e-mail or through our website to arrange repair or replacement. All Koryuu Transcoder units sold by VideogamePerfection.com/VGP Media Ltd come with one years warranty.

Please consider contacting us before disposing of your Koryuu Transcoder, even if you no longer want it. If you do need to dispose of the unit, in most countries you can recycle the unit for free at your local recycling centre. To find your nearest centre in the UK, visit the Recycle More website at <http://www.recycle-more.co.uk> and type in your postcode. In the Republic of Ireland, visit <https://www.weeireland.ie/household-recycling/where-can-i-recycle/>

If you live outside of the UK or ROI, please check with local authorities or contact us to arrange for a return of your unit.