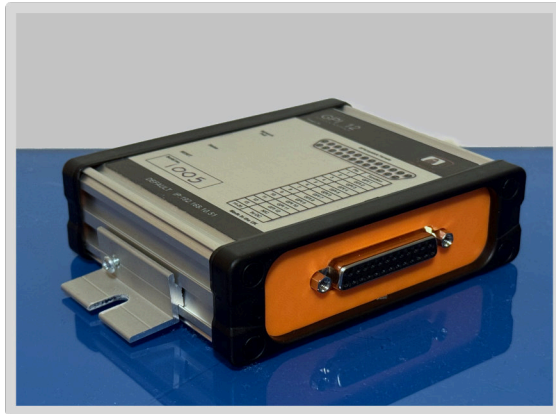# Video Walrus Ltd.

Joystick Touch Down Interface v3

'Ross Talk' option

31 Dec 2024

Features

The unit has 12 GPI inputs, which can be configured to provide touchdown (overpress) switching of a Ross Carbonite vision mixer auxiliary destination. Upto six independent operators (vision/shader engineers) can switch camera sources to six independent monitors. The 12 inputs can be shared amongst the six operators and is configured via a web interface. All settings are saved in non-volatile memory.

Install

GPI/Joystick Female

The unit is capable of being powered from the network connection if connected to a switch providing PoE (Power over ethernet)

Alternatively, it can be powered via the USB micro diagnostic port and a regular phone charging style adapter. (Not supplied).

A pair of lugs are supplied already attached to the side of the interface to enable mounting to the underside of a desk near to the vision operators if required.

The D-sub 25pin connection should be wired as per the pinout shown here.
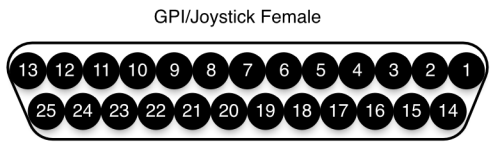
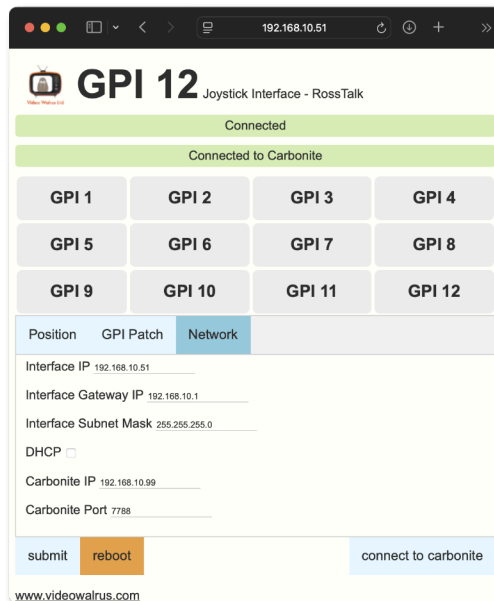| Pin	Function
1	GPI 1
2	GPI 2
3	GPI 3
4	GPI 4
5	GPI 5
6	GPI 6
7	GPI 7
8	GPI 8
9	GPI 9
10	GPI 10
11	GPI 11
12	GPI 12
13	GPI 13
14-25	5v

Configuration

Once connected to a network. Connect a computer with its network interface set to an address in the same range as the internet.
Open a web browser and navigate to the address of the interface. The default for the interface is

192.168.10.51 (printed on the case).

Select the **Network** tab as in Fig 3. Correctly set the desired IP address of the interface. Also change the Carbonite IP settings to match the IP address of the vision mixer mainframe. Ross Talk defaults to port 7788, but this can be changed if desired. Click **submit**, and press **reboot**. The unit will restart with the new settings. Don't forget to change the computers network adapter address to match.

Fig 2. Network.

Next, select the **Position** tab as per Fig 3.

From this page, first enter the auxiliary destinations numbers for each position. This is the output from the vision mixer that feeds into each operators monitor.
Next choose the logic for each operator. There are two modes. **Toggle** and **Latch**. Toggle, will return the monitor to a chosen source when all the joysticks have been released. The '**return to source**' (RTS) is chosen in the final column. If Latch is selected, the monitor will stay on the source last selected by pressing down on a joystick regardless of the RTS.

Next enter a name for the o p e r a t o r s position. This will be used in the **GPI Patch** tab.

Once completed, press **submit** to send all the new settings to the interface. There is no need to reboot this time.

Destination (AUX)	Logic	Name	Return To Source
1	Toggle	Vis 1	PGM
2	Toggle	Vis 2	PVW
3	Toggle	Vis 3	ME:1:PGM
4	Latch	Vis 4	IN:1
4	Latch	Vis 5	ME:1:PGM
5	Latch	Vis 6	ME:1:PGM

Fig 3. Position

Operation

Next select the **GPI Patch** tab as in Fig 4. If the destination is set to **Toggle** mode, the interface should now allow full overpress operation. The operator, should be able to see the source as selected in the '**return to source**' selection from the Position tab. (Fig 2). When they select a camera by pressing down on the RCP joystick, the monitor will switch to that source whilst the joystick is held down. When released the picture will return to the 'return to source'.

If the operator holds down a joystick and then presses another joystick without releasing the first, a comparison can be made between the two cameras. When both are released the monitor will return to the 'return to source'.

The webpage will display which buttons/joysticks/gpi are being used. These are also buttons and can be clicked to aid testing and diagnostics.
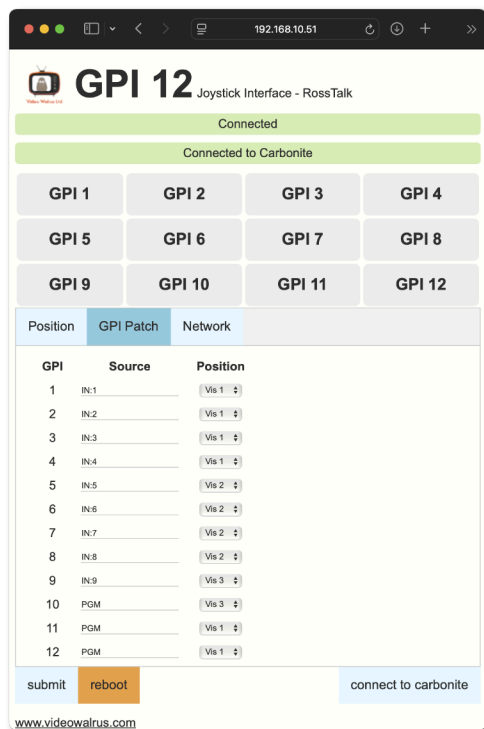

Fig 4. GPI Patch

Reset

On the front of the unit is a small black push button. A short press will restart the unit, and a long press (more than 4 secs) will erase all the settings and return the unit to its factory state.

The LED indicates the interface status. Green is good.

Specifications

Dimensions	
width	110mm(140mm inc lugs)
height	90mm
depth	34mm
weight	
power	PoE or 5v

Thank you for your purchase.
Please contact us for any further
information.

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