

***VIXID VJX16-4 video mixer***

***TouchOSC layouts***

***Reference Manual v1.0***



***Creator of high performance audio-video solutions***

Introduction.....	2
Setup .....	3
Vixid VJX16-4 – Calibration layout reference.....	4
Vixid VJX16-4 – Calibration – page 1 .....	4
Vixid VJX16-4 – Calibration – page 2 .....	5
Vixid VJX16-4 – Calibration – Pure Data patch – screenshot.....	5
Vixid VJX16-4 – Mix layout reference .....	6
Vixid VJX16-4 – Mix – page 1 .....	6
Vixid VJX16-4 – Mix – Pure Data patch - screenshot.....	7

## Introduction

**TouchOSC** is an iPhone/iPod Touch application that lets you send and receive Open Sound Control (OSC) messages over a Wi-Fi network using the UDP protocol. TouchOSC is developed by **Hexler** (<http://hexler.net>), and the application is available from the Apple store.

The interface provides a number of different touch controls to send/receive messages: faders, rotary controls, push buttons, toggle buttons, XY pads, multi-faders, multi-toggles, LEDs. It supports full multi-touch operation: five controls can be used at the same time. Additionally the program can send Accelerometer data. The last version of the program allows configurable layout, so you can create your own interfaces.

The **VIXID VJX16-4 video mixer** is a versatile video mixer that can be fully controlled using MIDI commands. The VJX16-4 video mixer is available from the **Vixid** website ([www.vixid.com](http://www.vixid.com)). Two layouts are provided to control the VJX16-4 video mixer using TouchOSC.

In order to use TouchOSC with the VIXID VJX16-4 video mixer, OSC messages need to be translated into MIDI messages. An easy way to translate OSC into MIDI messages (and vice versa) is to use the free and cross platform application **Pure Data**. Two Pure Data patches are provided to be used with the layouts. You can download Pure Data Extended from <http://puredata.info>.

For more information, visit:

- <http://hexler.net/software/touchosc>
- <http://puredata.info/>
- <http://www.vixid.com>

## Setup

Make sure both the iPhone/iPod Touch and the computer running Pure Data Extended are connected to the same WI-Fi network, and open one of the Pure Data patches:

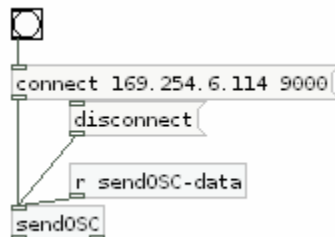
- ***Vixid VJX16-4 - Calibration.pd*** is designed to work with the ***Vixid VJX16-4 - Calibration layout***. In this patch, messages sent by TouchOSC to Pure Data are translated into MIDI messages, and sent to the VJX16-4 video mixer.
- ***Vixid VJX16-4 - Mix.pd*** is designed to work with the ***Vixid VJX16-4 - Mix layout***. In this patch:
  - incoming OSC messages sent by TouchOSC to Pure Data are translated into MIDI messages, and sent to the VJX16-4 video mixer
  - incoming MIDI messages sent by the VJX16-4 video mixer to Pure Data are translated into OSC messages, and sent to TouchOSC
  - moving a control in Pure Data will send MIDI messages to the VJX16-4 video mixer, and OSC messages to TouchOSC

Check the network settings of TouchOSC:

- In the ***Host*** field, enter the ***IP address*** or the ***Hostname*** of the computer.
- In the ***Port (outgoing)*** field, enter the number of the port Pure Data is configured to receive messages on. When using one of the provided patches, this should be set to ***8000***.
- In the ***Port (outgoing)*** field, enter the number of the port Pure Data is configured to send messages on. When using the ***Vixid VJX16-4 - Mix.pd*** patch, this should be set to ***9000***.

Check the network settings of Pure Data:

- Make sure that the OSC messages are sent to the adequate IP address: edit the Pure Data patch so that the IP address in the “connect object” corresponds to IP address of the iPhone/iPod Touch, displayed in the ***Local IP*** address field. This is required if you send messages from Pure Data to TouchOSC.



- Make sure that Pure Data is configured to send and receive MIDI messages through your MIDI interface. Open the menu ***Media -> MIDI Settings***, and choose the input device and the output device.

## Vixid VJX16-4 – Calibration layout reference

This layout is made of two groups of pages, each group being composed of 4 pages, one for each of the 4 video tracks of the VJX16-4 video mixer.

The first group allows control on (page 1 to 4):

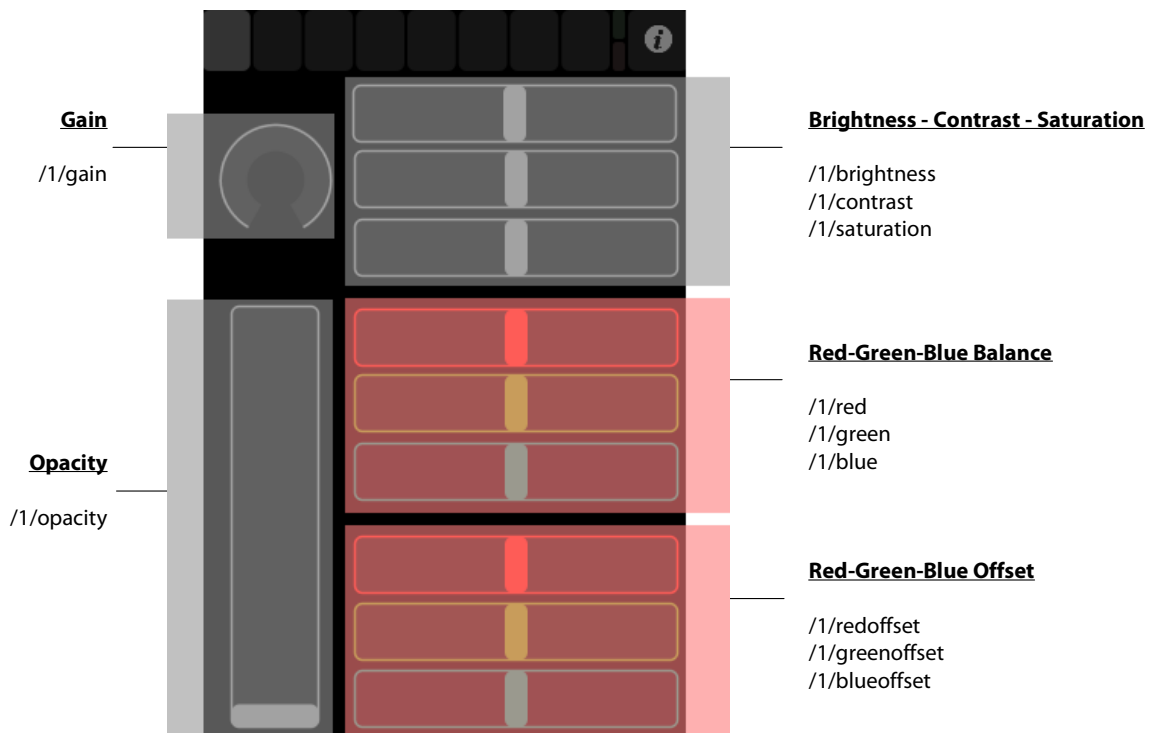
- Opacity
- Video Gain
- RGB balance (Red, Green and Blue gains)
- RGB offset (Red, Green and Blue tints)
- BCS balance (Brightness, Contrast and Saturation)

The second group allows control on (page 5 to 8):

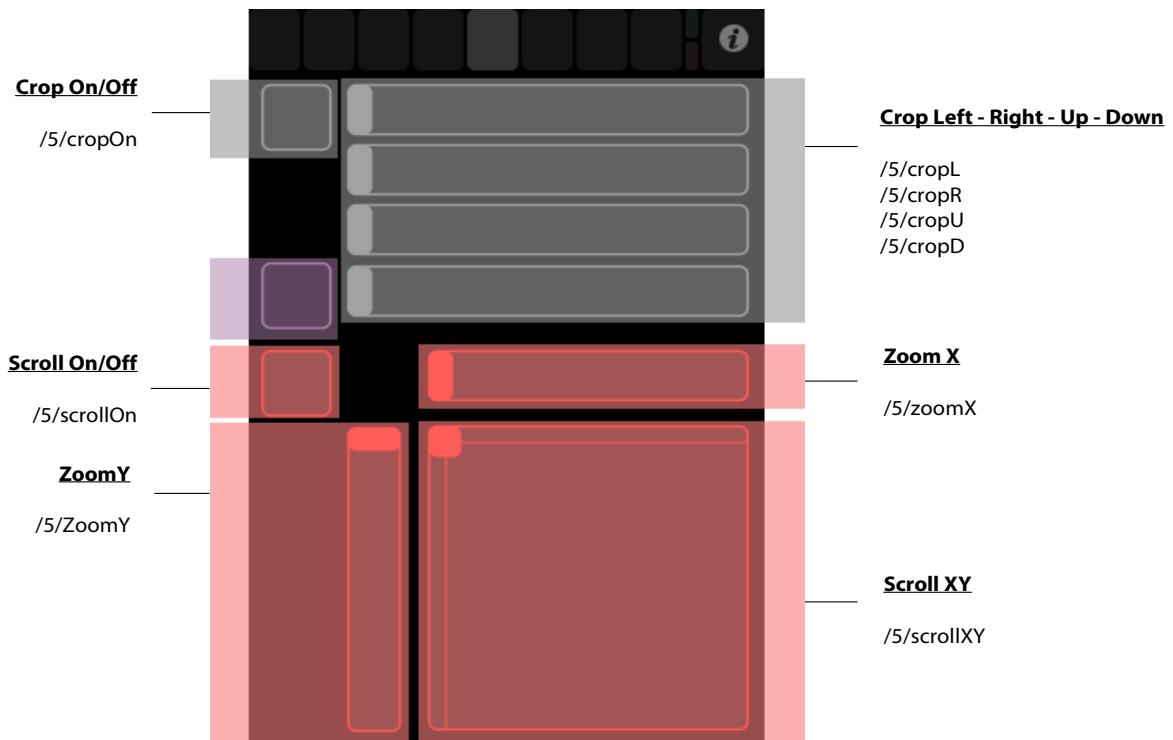
- Crop (Crop on/off, crop left, crop right, crop up, crop down)
- Scroll –Pan and Tilt- (scroll on/off, scroll X, scroll Y, zoom X, zoom Y)
- Background alpha

Only page 1 and page 5 are described. The other pages' controls addresses can be easily inferred from the page 1 and page 5, as all OSC addresses are constructed like this: /pagenumber/controlname. For example, the "opacity" control on page 3 has the address: /3/opacity.

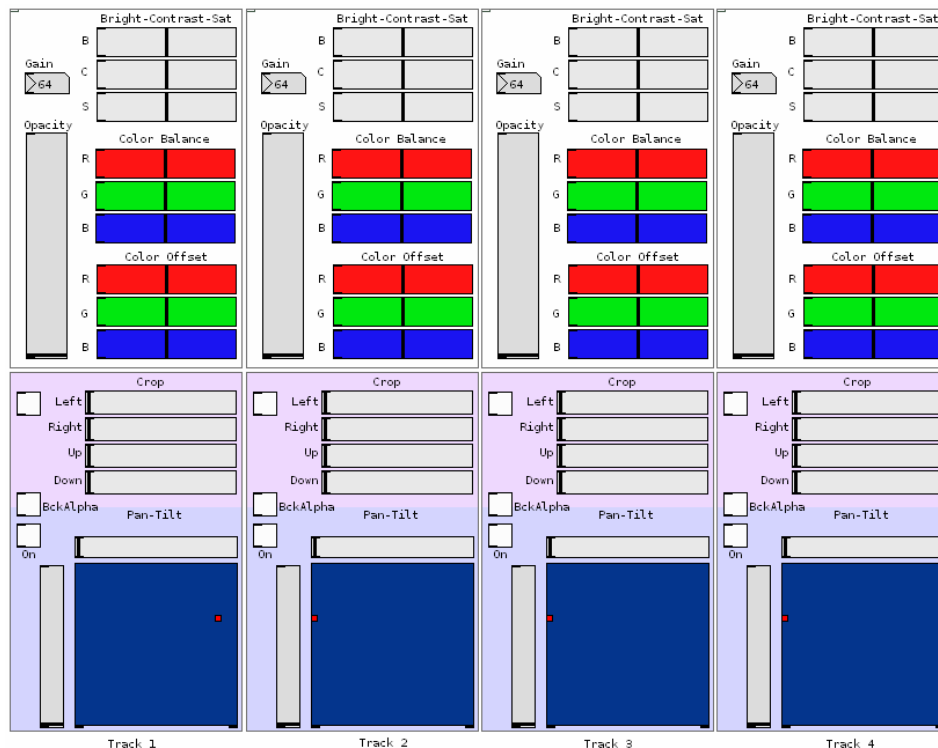
### Vixid VJX16-4 – Calibration – page 1



## Vixid VJX16-4 – Calibration – page 2



## Vixid VJX16-4 – Calibration – Pure Data patch – screenshot



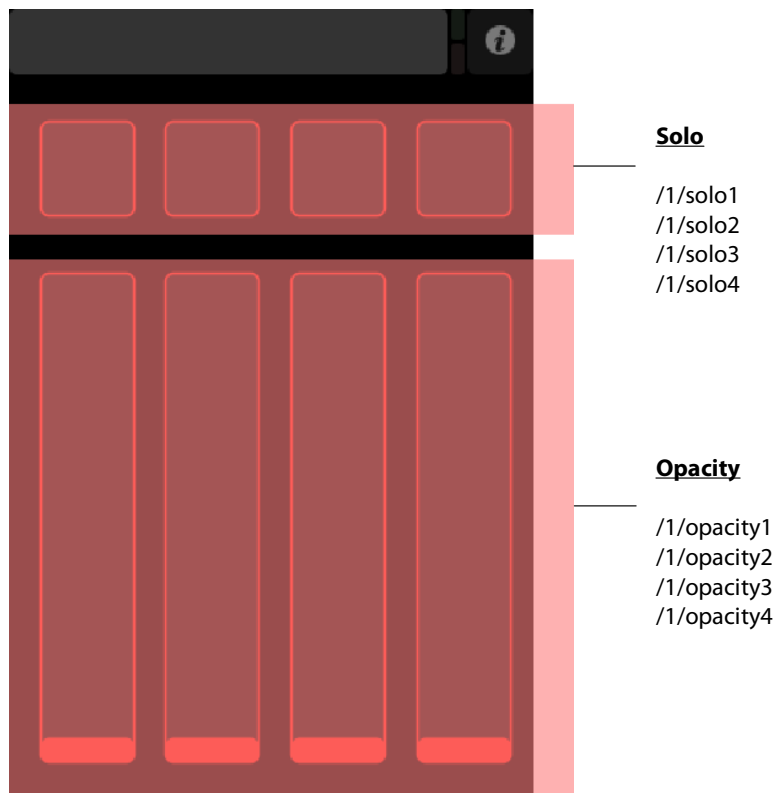
## Vixid VJX16-4 – Mix layout reference

This layout is a basic, making it a good starting point for controlling the VJX16-4 video mixer with TouchOSC.

It allows control on:

- “Opacity” of the 4 video tracks
- “Solo” of the 4 video tracks

### *Vixid VJX16-4 – Mix – page 1*



## Vixid VJX16-4 – Mix – Pure Data patch - screenshot

