



C2-6104A Video Processor

Quick Start Guide V1.00

QSG- C2-6104A-V1.00
May 2019

In this guide

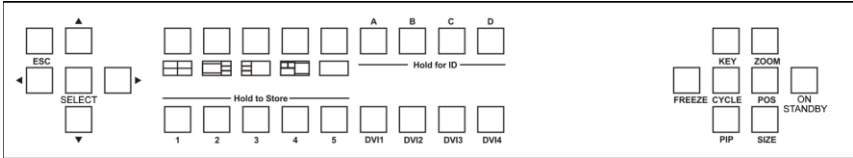
| | |
|-----------------------------|----|
| About your C2-6104A..... | 1 |
| Quick start | 5 |
| The menu..... | 6 |
| Regulatory compliance | 13 |
| Contact us..... | 14 |

Thanks for buying this C2-6104A from tvONE™.

The C2-6104A features four video processing and scaling engines, with video mixing, keying, fading, and source-labeling capabilities.

About your C2-6104A

The front panel



Use ▲▼◀▶ to navigate in the menu.

SELECT

Press SELECT to select options.

Press and hold SELECT to save your current settings.



Preset buttons.

Press a preset button to load a preset window layout.

You can overwrite the presets associated with these buttons. To overwrite a preset with your current settings, press and hold a preset button until you hear a beep.

Hold to Store 1-5

Custom preset buttons.

Press a preset button to load a preset.

To store your current settings as a preset, press and hold a button from 1-5 until you hear a beep.

Hold for ID A, B, C, D

Press a button from A-D to select a window to adjust. This window is the active window.

DVI-1, DVI-2, DVI-3, DVI-4

Press a button from DVI-1 to DVI-4 to select a source for the active window.

| | |
|--------|---|
| KEY | <p>Press to enable keying for the active window.</p> <p>The default key color is black, the black foreground becomes transparent.</p> |
| ZOOM | <p>Press to open Adjust windows > Zoom level.</p> |
| FREEZE | <p>Press to freeze and unfreeze the active window.</p> |
| CYCLE | <p>Press to cycle your sources through the windows.</p> |
| POS | <p>Press to open Adjust windows > H/V position %.</p> <p>Use H/V position % to pan or position the image.</p> |
| PIP | <p>Press to activate picture-in-picture mode. The active window becomes the picture-in-picture. The next window becomes the main window. For example, if window A is the active window, window B becomes the main image, with window A as the picture-in-picture.</p> <p>If you don't select an active window, the main image is a still image from the still image store, with window A as the picture-in-picture.</p> |
| SIZE | <p>Press to open Adjust windows > Shrink level %.</p> <p>Use Shrink level % to resize the window.</p> |

ON
STANDBY

Press and hold to enter standby mode.

Press to enter active mode.

Button combinations

These button combinations only work when the unit is in active mode.

Locking the front panel buttons

To lock and unlock the front panel buttons, press and hold ON STANDBY and FREEZE together.

Saving current settings

To store your current settings so that they appear next time you power on your unit, press and hold SELECT until you hear a beep.

Restoring factory settings

To restore your unit to its factory settings, press and hold ON STANDBY and SELECT together, until you hear two beeps.

Note: When you restore factory settings, all stored settings except resolutions are deleted. To delete resolutions as well, update your firmware.

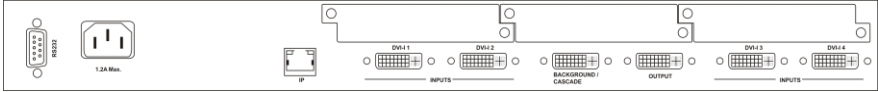
Shortcuts to specific resolutions

Press these buttons together to set the following resolutions:

| Buttons | Output resolution |
|---------|--|
| 1 and A | 720x480p @59.94 Hz |
| 2 and A | 1280x720p @59.94 Hz |
| 3 and A | The default resolution 1280x720p @60 Hz |

The rear panel

This unit has 4x DVI-U inputs, 1x DVI-U background input and 1x DVI-I output.



| | |
|--|--|
| RS232 | Connect to your serial controller |
| 1.2A Max | Connect to a power outlet |
| IP | Connect to Ethernet to control your unit remotely |
| INPUTS DVI-I 1, DVI-I 2, DVI-I 3, DVI-I 4 | Connect to your sources You can connect a range of sources with our adapters. Read more at tvONE.com . |
| BACKGROUND/CASCADE | Connect to a source. The source can be another C2-6XXX unit. This input can only be displayed as the background image, window Z. |
| OUTPUT | Connect to your display |

Quick start

Set up and test your unit with factory default settings.

1. Connect one or more DVI-D or analog sources to the input ports.
You can connect analog sources with a VGA to DVI-A adapter.
2. Connect a display to the output port.
The default output resolution is 1280x720p @60 Hz. For best results, make sure your display supports this.
3. Power on your C2-6104A.
4. Press the first preset button.



Your sources show on your display.

5. If you have any problems, restore your unit to factory settings and then try setting up again.
Press and hold ON STANDBY and SELECT until you hear a beep.
For troubleshooting advice, see the user guide. There's a link on the back page of this quick start guide.

The menu

Use the menu to make changes to your system.

For more information about menu options, see the user guide.

Map of the menu

| | | |
|----------------|--------------------|---|
| Adjust Preset | Load, Store, Erase | |
| Adjust Outputs | Lock mode | |
| | Output res | |
| | HDCP | |
| | Output Type | The default output signal is RGBHV |
| | Stand | This option is only available when you set the output resolution to PAL or NTSC |
| | Back Y/U/V | |
| | Allow HDMI output | |
| | SC/H Phase | This option is only available when you set the output resolution to PAL or NTSC |
| | Allow HDMI output | |
| | Allow Errors | |
| Audio emb | | |
| Exit | | |
| Adjust windows | Window to adjust | |
| | Source | |

| | | |
|---------------|----------------------|---|
| | Window enable | |
| | Zoom level % | |
| | H/V zoom pan % | |
| | Image freeze | |
| | H/V crop % | |
| | H/V out shift | |
| | Shrink level% | |
| | H/V position % | |
| | Aspect change | |
| | Aspect adjust | For detailed information about using this setting in advanced or pixel mode, see the user guide. Details are at the back of this quick start guide. |
| | Image smoothing | |
| | Image flip | |
| | Show source label | |
| | Max fade level % | |
| | Layer priority ABCDZ | |
| | Exit | |
| Adjust keyers | Window to adjust | |
| | Keyer enable | |
| | Y Key min/max | |
| | Y Key soft | |

| | | |
|----------------|------------------------|---|
| | U Key min/max | |
| | U Key soft | |
| | V Key min/max | |
| | V Key soft | |
| | Exit | |
| Adjust borders | | To adjust a border, select a window to adjust in the Adjust Windows menu. |
| | Border enable | |
| | Brdr offset H/V | |
| | Brdr Y/U/V | |
| | Brdr opacity % | |
| | Exit | |
| Adjust sources | Source to adj | |
| | UMD display address | This option is only available when a tally module is installed. |
| | Lbl HVpos | This option is only available when you select a source from 1 to 4 |
| | Label Char (character) | This option is only available when you select a source from 1 to 4 |
| | Lbl for/bck col | This option is only available when you select a source from 1 to 4 |
| | Lbl font / H / V size | This option is only available when you select a source from 1 to 4 |
| | HDCP | This option is only available when you select a source from 1 to 5 |
| | Display Emul | This option is only available when you select a source from 1 to 5 |

| | |
|--------------------|--|
| EDID capture | This option is only available when you select a source from 1 to 5 |
| Autoset status | This option is only available when you select a source from 1 to 5 |
| Aspect correct | This option is only available when you select a source from 1 to 5 |
| TL pos. adj | This option is only available when you select a source from 1 to 5 |
| BR size adj. | This option is only available when you select a source from 1 to 5 |
| On Source loss | This option is only available when you select a source from 1 to 5 |
| Input pixel phase | This option is only available when you select a source from 1 to 5 |
| DVI-U input type | This option is only available when you select a source from 1 to 5 |
| RGB/VYU IM | This option is only available when you select a source from 1 to 5 |
| YUV Black level | This option is only available when you select a source from 1 to 5 |
| De-Int | |
| Noise reduction | |
| Still image | This option is only available if you select a Still Image Store (SIS) source to adjust |
| Exit | |
| Adjust transitions | Transition Type |
| | Transition Time |
| | Exit |

Adjust tally Tally Mode This option is only available if you have a tally module

Exit

Adjust IP Enable

Ethernet

IP add.

IP sub.

IP gtwy.

IP port.

Exit

Adjust
resolutions

 **Risk of undesirable effects**

Adjustments to resolutions take effect immediately, are stored immediately, and overwrite an existing resolution.

You might create a resolution that will not work on any display.

Adjusting a resolution that is used for both input and output image processing, for example, 1024x768 input and 1024x768 output, can cause undesired effects.

The only way to undo changes to resolutions is to update the firmware of your unit. Updating the firmware deletes all your other settings.

Before you adjust a resolution, read **The adjust resolutions menu** in the user guide.

Image to adjust Resolutions are saved in slots 1-60. Select a slot to overwrite the saved resolution.

| | | |
|--------|------------------------|---|
| | Interlaced | |
| | H.Freq.crse | |
| | H.Freq.fine | |
| | Clks/L | |
| | Lines/F | |
| | H/V Active | |
| | H/V Start | |
| | H/V Sync | |
| | Exit | |
| System | SW version | |
| | SW date | |
| | In +TL | Frequency and total lines of the currently selected input |
| | TAC# | |
| | PPF# | |
| | Save power on settings | |
| | LCD Backlight | |
| | Autoset sense | |
| | Serial Type | For example, RS232 |
| | RS232 Baud rate | |
| | Buzzer | |
| | Resolutions | |
| | Still images | |
| | Power cycles | |

Firmware
updates

Hours in use

Temp. C

Fan speed

Exit

Regulatory compliance

European 'CE' Mark Statement

Emissions: BS EN 61000-6-3:2006 (Generic Immunity Standard for Residential, Commercial and Light Industrial)

Immunity: BS EN 61000-6-1:2001 or EN 55103-2:2009 (Generic Immunity Standard for Residential, Commercial and Light Industrial)

Safety (AC inlet units): IEC 60065

FCC Statement

Class A Device: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with user guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: This equipment is intended for use in the manner prescribed in the user guide. Any user changes or modifications not expressly approved by tvONE could void the user's authority to operate the equipment. Connecting this equipment to external devices requires no specially shielded cabling for FCC compliance. The user guide shows or describes the proper connection of this equipment for operation that insures FCC compliance.



For more information, download the full user guide from help.tvone.com/products/C2-series/C2-6104A.



Contact us

tvone.com

info@tvone.com

Support NCSA: tech.usa@tvone.com

Support EMEA: tech.europe@tvone.com

Support Asia: tech.asia@tvone.com

Information in this document is subject to change without notice. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or any means electronic or mechanical, including photocopying and recording for any purpose other than the purchaser's personal use without the written permission of tvONE.

Copyright © 2019 tvONE™. All rights reserved.

Registered in the U.S. Patent and Trademark Office.