



# C2-6104A Video Processor

## Quick Start Guide V1.00

QSG- C2-6104A-V1.00  
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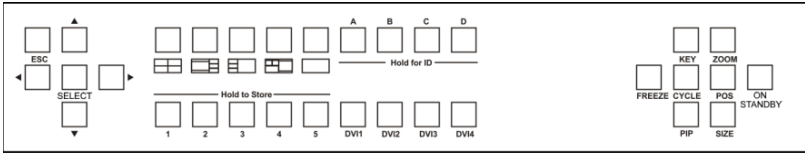
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Thanks for buying this C2-6104A from tvONE™.

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



SELECT

Use ▲▼◀▶ to navigate in the menu.

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 <b>Adjust windows &gt; Zoom level</b>.</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 <b>Adjust windows &gt; H/V position %</b>.</p> <p>Use <b>H/V position %</b> 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 <b>Adjust windows &gt; Shrink level %</b>.</p> <p>Use <b>Shrink level %</b> to resize the window.</p>

ON	Press and hold to enter standby mode.
STANDBY	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.

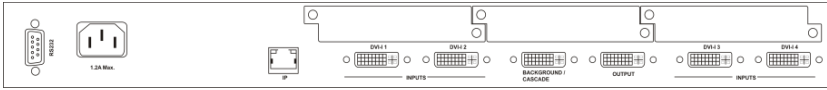
### Shortcuts to specific resolutions

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.

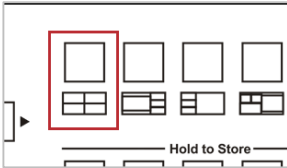


RS232	Connect to your serial controller
1.2A Max	Connect to a power outlet
IP	Connect to Ethernet to control your unit remotely
INPUTS DVI-I 1, DVI-I 2, DVI-I 3, DVI-I 4	Connect to your sources You can connect a range of sources with our adapters. Read more at <a href="http://tvONE.com">tvONE.com</a> .
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/WYU lvl	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

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Exit

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Adjust Ethernet    IP Enable

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IP add.

---

IP sub.

---

IP gtwy.

---

IP port.

---

Exit

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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.

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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	

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Firmware  
updates

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Hours in use

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Temp. C

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Fan speed

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Exit

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# 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](http://help.tvone.com/products/C2-series/C2-6104A).



## Contact us

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