



Multi Window Video Processors



Control Room Applications

The C2-6104A is a very capable Control room Multiviewer. With very low latency and per-pixel scaling the unit is ideal for any CCTV or Broadcast environment. The unit's flexible windowing capabilities allow sources to be viewed either as a single full screen or in a multi-window layout. The five HDCP compatible DVI-U inputs allow integration of both digital, and analog standards including CV, YC and YPbPr, making it easy to integrate legacy components. Up to fifty layouts can be easily stored and recalled as presets, making the unit simple setup for different applications. The 'Cascade' feature enables the C2-6104A to be expanded, increasing the number of sources to be monitored. It is fully compatible with the 3G-SDI variant C2-6204, making it easy to mix HDMI/DVI, Analog video and Broadcast quality SDI all on one display. An optional 'Tally' I/O module allows TSL 3.1 UMD (Under Monitor Display) window labeling and ensures compatibility with studio equipment, it also has eight configurable general purpose I/Os which can be used to trigger specific actions. Special features: Genlock the output to any incoming reference source; add colored borders to differentiate windows; add customizable and UMD labeling to identify sources; general purpose I/O triggered internal and external events such as presets, flashing borders and text and control system interaction. The C2-6104A is easy to integrate with Control room systems, as it supports full functionality via its API allowing 3rd party remote management and configuration.



The C2-6204 features audio monitoring

Cascading 2 units enables expansion to 8 windows

Conference Room Applications

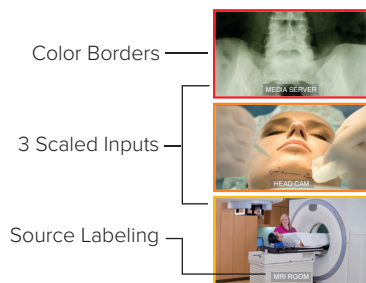
Used as a presentation switcher with Multiviewer capabilities, the C2-6104A is ideal for small to medium sized meeting rooms. Up to five video sources can be viewed either as a full screen, as with a conventional switcher or with multiple windows for PIP and layered montage effects. Internally stored images can be used as corporate branding or keyed out to create logos. Transitions can be customized to create different effects when switching between sources, either Fade for smooth switching or Push and Wipe for more impact. Layouts can be easily stored and recalled as presets, making the unit simple to reconfigure during presentations or between meetings. Up to fifty presets can be stored which can be very useful when implementing the unit into a multifunctional meeting room that may be used for many different purposes. Special features include: Autoset, when activated will automatically center the image when analog graphics sources are connected; five fully HDCP compatible Universal DVI inputs make integrating new and legacy sources easy; audio routing with AFV or breakaway on all sources. The unit has a small footprint so is ideal for integration where rack space is an issue such as in a desk, credenza or lectern. Easy to integrate with control systems, the C2-6104A supports full functionality via its API for remote access.

Easily connect legacy sources via a range of Universal DVI connectors



Medical Applications

With extremely low latency and acclaimed scaling, the C2-6104A is the ideal Multiviewer for medical environments where precision, image quality and signal integrity are key. The exclusive CORIO2 scaling engines at the heart of the unit enable extremely high quality 24-bit, 4:4:4 format processing while maintaining a maximum of only 1 – 2 frames delay. Sources can be viewed individually or part of a montage showing all sources at once. Screen Layouts can be simply created and recalled as presets, making the unit easy to setup prior to being used or adjusted during medical procedures optimizing the unit's functionality. The five DVI-U inputs allow integration of both digital, and analog standards such as CV, YC and YPbPr, making it easy to integrate expensive legacy components such as endoscopes or imaging equipment. Special features: Up to fifty presets available; create layouts with up to four PIPs and a full background; add a colored border to each window to highlight specific sources; customizable window labeling to identify signals; Zoom in and Freeze specific live video streams to highlight areas of interest. The C2-6104A's small footprint and exceptionally low power consumption (approx. 20w) means it has a very small impact when integrating into an equipment rack or communications closet. Combined with its numerous regulatory compliances and extremely flexible functionality this makes it an ideal processor to integrate into any medical AV system.



Color Borders

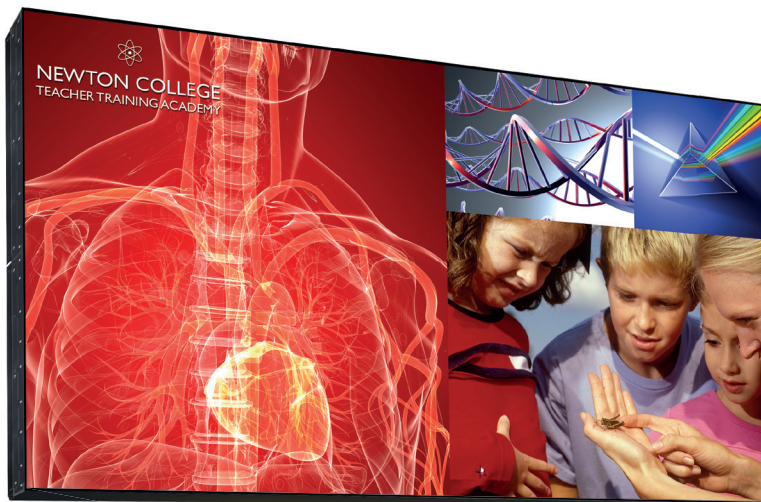
3 Scaled Inputs

Source Labeling



Keyed Still Image Store graphic used as a 4th Scaled Input

Classroom Applications



One of up to fifty stored presets can be triggered by the front panel buttons, CORIOtools suite or via an optional 'Tally' I/O module.

The C2-6104A can be placed at the center of the classroom system and used as the main AV switcher. Its conveniently small 1RU chassis makes it easy to fit into a lectern or desk with very little impact on space or ventilation. The C2-6104A's flexible windowing capabilities allow the sources to be viewed either as a single full screen or in a multi-window layout. Layouts can be easily stored and recalled as presets, making the unit simple to reconfigure during presentations or between lessons. An optional 'Tally' I/O module has eight configurable general purpose I/Os which can be used to trigger internal and external events such as stored presets or projection screen and environmental controls. Special features include: independently zoom in and highlight areas of interest on specific windows; freeze each window independently to pause or temporarily capture an image as a point of reference; use up to four of the ten internally stored images, these could be simple reference images to compliment live training material or a school emblem that can be keyed and used as a logo; Autoset for centering analog sources. The C2-6104A's flexible five DVI-U inputs allow integration of digital HDMI or DVI and older analog standards including CV, YC and YPbPr, making it easy to integrate legacy sources and negating the need to upgrade existing equipment. Used independently or integrated into a larger system, the C2-6104A is the ideal solution for displaying audio visual content in an educational environment.

Specifications

C2-6104A	
Inputs	
Signal Type	5x Universal DVI via DVI-I Connector
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920x1200@60Hz
Analog DVI-A Format:	
Television Standards	NTSC, PAL, PAL-M, PAL-N, SECAM
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Max Horiz Scan Rate	150KHz
Signal Format	RGBHV, RGBS, RGsB, YPbPr, CV
Sync	TTL Level, 10KΩ, Pos or Neg
Termination	75 Ω
R-G-B Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
Outputs	
Signal Type	1x DVI-I via DVI-I Connector
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920x1200@60Hz
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Vertical Refresh Rate	Any to 250Hz
Signal Format	RGBHV, RGBS, RGsB, YPbPr
R-G-B Level	0.7 Vp-p
Audio	
Embed / De-Embed	HDMI - via DVI connector
C2-6204	
Inputs	
Signal Type	4x 3G SDI via BNC Connector 1x DVI-I via DVI Connector (5th input)
SDI Format: 3G, HD, SD SDI	SMPTE 259M, SMPTE 392M, SMPTE 425M with re-clocked loop through
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920x1200@60Hz
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Max Horiz Scan Rate	150KHz
Signal Format	RGBHV, RGBS, RGsB, YPbPr
Sync	TTL Level, 10KΩ, Pos or Neg
Termination	75 Ω
R-G-B Level Range	0.5-2.0 Vp-p
Scan Rate Detection	Automatic
Outputs	
Signal Type	1x DVI-I via DVI-I Connector 1 x 3G SDI via BNC Connector
SDI Format:	
3G, HD, SD SDI	SMPTE 259M, SMPTE 392M, SMPTE 425M
Digital DVI-D Format:	
Max HD Resolution	1080p@60Hz
Max PC Resolution	1920x1200@60Hz
Analog DVI-A Format:	
Max HDTV Resolution	1080p@60Hz
Max PC Resolution	2048x2048
Vertical Refresh Rate	Any to 250Hz
Signal Format	RGBHV, RGBS, RGsB, YPbPr
R-G-B Level	0.7 Vp-p
Audio	
Embed / De-Embed	SDI / HDMI - via DVI connector

General	
Size and Position	Automatic via AutoSet or Manual
Image Size	User-Definable Presets
Image Freeze	One Video Frame
Settings Memory	Non-Volatile
Zoom Range	Variable to 10X Zoom
Shrink Range	Variable to 10%
Image Mirroring	Horizontal and/or Vertical
Horizontal Filtering	Full Digital
YPbPr de-interlacing	Motion adaptive + noise reduction
Film Mode (525i/1080i)	3:2 Pull Down Detection
Conversion Technology	Proprietary – CORIO®2
Frame Rate Conversion	Frame add/drop
Color Resolution	24-bit (16.8 Million Colors)
Sampling Rate	162MHz
Digital Sampling	24-bit, 4:4:4 format
DVI I/O	HDCP Compliant
Firmware Memory	Flash, Upgradeable via RS-232
Analog Video Adjust	R-G-B Levels Contrast, Phase
On Screen Display	4 Stereo audio level bars per window*
Control Methods	
Local	via Front Panel Buttons & LCD
RS-232/RS-485/RS-422	via D9 Female Connector
Ethernet (TCP/IP)	RJ45
Warranty	
Limited Warranty	5 Years Parts and Labor
Regulatory Compliance	
Main Units	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
Mechanical	
Desktop Case (HWD)	44x432x200mm (1.75"x17"x7.9")
With Rack Ears (HWD)	44x482x200mm (1.75"x19"x7.9")
Weight (Net)	3 Kg (6.5 lb)* 3.1Kg (6.8 lb)*
Environmental	
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-10° to +70° C (+14° to +158° F)
Storage Humidity	10% to 85%, Non-condensing
Power Requirement	
Internal Power Supply	100-240VAC, 50-60Hz, 50W
Accessories Included	
1x AC Power Cord	6' (2m) US, UK or Euro
1x VGA to DVI Adapter	ZDH-2040
1x BNC to DVI Adapter	ZDC-2050
1x Operations Manual	
1x Rack mount Kit	2 Ears and 4 Screws
1x Control Software	Downloadable from website
Optional Accessories	
ZDH-2038	DVI-I Male to 5-BNC Female
ZDH-2040	DVI-I Male to VGA Female
ZDC-2050	DVI-A to BNC Female†
C2M-TALLY	Tally/UMD module
RM110	Rear rack rail supports for 24" to 32" deep racks†
Product Item Numbers	
CORIOview C2-6104A	Quad-PIP Universal DVI Scaler
CORIOview C2-6204	3G SDI Multiviewer

CORIOview C2-6104A*
CORIOview C2-6204*

