

# CHRISTIE MASTERING GATEWAY

Post-production | VFX

## Purpose-built for post-production and VFX

Streamline high-resolution video production and simplify high-performance mastering without technical complexity.

### Support for the widest range of baseband and media standards

Including ST2110, ensuring you have everything you need for uncompromised, high-quality 12-bit RGB 4:4:4 transmission.

### Scalable architecture

Expand and adapt as your post-production needs evolve. The modular design ensures compatibility with future technologies and formats.

### Ultra-low latency

Get real-time collaboration and communication for remote, and co-location post-production environments.

### High-resolution workflow support

Handle uncompressed 4K/8K video, audio, and metadata in RGB 4:4:4, 12-bit color, and HDR with high frame rates to meet post-production and VFX demands.

### Time-of-day scheduler or X-Y control

Automate source-to-destination connections with scheduling stored in central databases or shared calendars for seamless operations, or manually patch using the X-Y Control interface.

### High-performance connectivity

The KVM functionality ensures industry-leading responsiveness with under one frame of latency for your USB devices, delivering not only mouse and keyboard input but connectivity for editing and color-grading panels that's indistinguishable from direct connections.

### Intuitive user interface

Hardware resources and content can be controlled directly by the colorist or editor with the user-friendly interface that's accessible right from their keyboard. Activate the on-screen menu to select a different workstation so the application desktop, reference, audio, KVM, and control panel connections are instantly connected.



**CHRISTIE**<sup>®</sup>

# Mastering Gateway Technical specifications

SDI 12G 8 Ch	I/O Configurations	<ul style="list-style-type: none"> <li>8 Ch Single-Link 3/6/12G</li> <li>Software Defined 8x0, 0x8</li> </ul>	DISPLAYPORT 1.4 4x4	I/O Configurations	<ul style="list-style-type: none"> <li>DisplayPort 1.4</li> <li>4x4</li> </ul>
	Refresh Rates	<ul style="list-style-type: none"> <li>24, 25, 30, 48, 50, 60 and each /1.001</li> </ul>		Refresh Rates	<ul style="list-style-type: none"> <li>24, 25, 30, 50, 60 and each /1.001</li> </ul>
	Color Space, Sampling, Bits	<ul style="list-style-type: none"> <li>YCbCr 4:2:2 10-bit, RGB 4:4:4 10-bit, 12-bit</li> </ul>		Color space, Sampling, Bits	<ul style="list-style-type: none"> <li>YCbCr 4:2:2/4:4:4, and RGB 4:4:4, 8,10,12-bit</li> </ul>
	Resolutions	<ul style="list-style-type: none"> <li>Up to 4K at 60 Hz</li> </ul>		Resolutions	<ul style="list-style-type: none"> <li>Up to 4096 x 2160 at 60 Hz (4 Ch)</li> <li>or 7680 x 4320 at 30 Hz (2 Ch)</li> <li>or 7680 x 4320 at 60 Hz (1 Ch)</li> </ul>
	Audio	<ul style="list-style-type: none"> <li>16x Channels 20/24-bit, 44/48 kHz, 125/1000us pacing</li> <li>16x Channel Mapper each output (optional)</li> <li>16x Channel volume control each output (optional)</li> <li>Stereo Mixdown each output (optional)</li> </ul>		Audio	<ul style="list-style-type: none"> <li>8x Channels 20/24-bit, 44/48 kHz, 125/1000us pacing</li> <li>8x Channel Mapper each output (optional)</li> <li>8x Channel volume control each output (optional)</li> <li>Stereo Mixdown each output (optional)</li> </ul>
HDMI 2.0 4x4	I/O Configurations	<ul style="list-style-type: none"> <li>HDMI 2.0</li> <li>4x4</li> </ul>	FOUR CH BIDI EDIT GATEWAY w/ SDI GEARBOX	I/O Configurations	<ul style="list-style-type: none"> <li>Software defined</li> <li>2x HDMI 2.0 input w/ loop through</li> <li>2x SDI 12G (SL/DL/QL) input</li> <li>USB 2.0/3.0 Connection to host</li> <li>2x HDMI 2.0 output</li> <li>2x SDI 12G (SL/DL/QL) output</li> <li>USB 2.0/3.0 Connection to devices</li> </ul>
	Refresh Rates	<ul style="list-style-type: none"> <li>24, 25, 30, 50, 60 and each /1.001</li> </ul>		Encap 4 ch SMPT 2110-20,30,40	<ul style="list-style-type: none"> <li>24, 25, 30, 50, 60 and each /1.001</li> </ul>
	Color space, Sampling, Bits	<ul style="list-style-type: none"> <li>YCbCr 4:2:2/4:4:4, and RGB 4:4:4, 8,10,12-bit</li> </ul>		Decap 4 ch SMPT 2110-20,30,40	<ul style="list-style-type: none"> <li>YCbCr 4:2:2/4:4:4, and RGB 4:4:4, 8,10-bit</li> </ul>
	Resolutions	<ul style="list-style-type: none"> <li>Up to 4K at 60 Hz and non-standard formats</li> </ul>		Refresh Rates	<ul style="list-style-type: none"> <li>24, 25, 30, 50, 60 and each /1.001</li> </ul>
	Audio	<ul style="list-style-type: none"> <li>8x Channels 20/24-bit, 44/48 kHz, 125/1000us pacing</li> <li>8x Channel Mapper each output (optional)</li> <li>8x Channel volume control each output (optional)</li> <li>Stereo Mixdown each output (optional)</li> </ul>		Color space, Sampling, Bits	<ul style="list-style-type: none"> <li>YCbCr 4:2:2/4:4:4, and RGB 4:4:4, 8,10-bit</li> </ul>
HDMI 2.1 4x4	I/O Configurations	<ul style="list-style-type: none"> <li>HDMI 2.1</li> <li>2x2</li> </ul>	All Models	Resolutions	<ul style="list-style-type: none"> <li>Up to 4096 x 2160 at 60 Hz</li> <li>or 7680 x 4320 at 30 Hz (2 Ch)</li> <li>or 7680 x 4320 at 60 Hz (1 Ch)</li> </ul>
	Refresh Rates	<ul style="list-style-type: none"> <li>24, 25, 30, 50, 60 and each /1.001</li> </ul>		Audio	<ul style="list-style-type: none"> <li>8x Channels 20/24-bit, 44/48 kHz, 125/1000us pacing</li> <li>8x Channel Mapper each output (optional)</li> <li>8x Channel volume control each output (optional)</li> <li>Stereo Mixdown each output (optional)</li> </ul>
	Color space, Sampling, Bits	<ul style="list-style-type: none"> <li>YCbCr 4:2:2/4:4:4, and RGB 4:4:4, 8,10,12-bit</li> </ul>		KVM	<ul style="list-style-type: none"> <li>USB 2.0 Ports for HID connect: 4 host, 4 device ports</li> </ul>
	Resolutions	<ul style="list-style-type: none"> <li>Up to 4096 x 2160 at 60 Hz (4 Ch)</li> <li>or 7680 x 4320 at 30 Hz (2 Ch)</li> <li>or 7680 x 4320 at 60 Hz (1 Ch)</li> </ul>		USB 3.0 Redirect	<ul style="list-style-type: none"> <li>Connect any two nodes via re-direct USB protocols</li> </ul>
	Audio	<ul style="list-style-type: none"> <li>8x Channels 20/24-bit, 44/48 kHz, 125/1000us pacing</li> <li>8x Channel Mapper each output (optional)</li> <li>8x Channel volume control each output (optional)</li> <li>Stereo Mixdown each output (optional)</li> </ul>		Network Interfaces	<ul style="list-style-type: none"> <li>2x QSFP28 100 Gb Ethernet</li> <li>1x SFP+/RJ45 1 Gb Ethernet</li> <li>2x SFP28 1/10/25 Gb Ethernet (optional)</li> </ul>
All Models	Synchronization Options	<ul style="list-style-type: none"> <li>ST-2059 PTP</li> <li>Burst output locked to PTP (optional)</li> <li>Burst/Tri-Level (BBTL) input</li> </ul>	Dimensions w x d x h	<ul style="list-style-type: none"> <li>18.75 x 8.24 x 1.73" (476.25 x 209.29 x 43.94mm)</li> </ul>	
	Weight	<ul style="list-style-type: none"> <li>Up to 8.5lbs (3.85kg)</li> </ul>	Power	<ul style="list-style-type: none"> <li>110v-240V, 220W typical, up to 240W max</li> </ul>	
	Environment	<ul style="list-style-type: none"> <li>Safe Operating Temperature Range: 0 to 40 C (32 to 104 F)</li> <li>Safe Storage Temperature (Power OFF): -40 to 60 C (-40 to 140 F)</li> <li>Operating Relative Humidity: 10-90% non-condensing</li> <li>Operating Altitude: &lt;3,000m (&lt;10,000 feet)</li> </ul>			

See website for HDR specifications

## Supported video formats

	Resolution	Frame Rate	Bit Depth	Colorimetry/Sampling	Standard	Mapping Structure	Reference Standard
1.5 G	1280x720	60/59.94/50/30/29.97/25/24/23.98	10	YCbCr 422	292-1		296
	1920x1080	30/29.97/25/24/23.98	10	YCbCr 422	292-1		274
	2048x1080	30/29.97/25/24/23.98	10	YCbCr 422	425-1		2048-2
3G	1920x1080	60/59.94/50	10	YCbCr 422	425-1	1	274
	2048x1080	60/59.94/50/48/47.95	10	YCbCr 422	425-1	1	2048-2
	1280x720	60/59.94/50	10	RGB, YCbCr 444	425-1	2	296
	1920x1080	30/29.97/25/24/23.98	10	RGB, YCbCr 444	425-1	2	274 (ITU-R BT.2100)
	2048x1080	30/29.97/25/24/23.98	10	RGB, YCbCr 444	425-1	2	2048-2
	1920x1080	30/29.97/25/24/23.98	12	RGB, YCbCr 444	425-1	3	274
	2048x1080	30/29.97/25/24/23.98	12	RGB, YCbCr 444	425-1	3	2048-2
	1920x1080	30/29.97/25/24/23.98	12	YCbCr 422	425-1	4	274 (ITU-R BT.2100)
	2048x1080	30/29.97/25/24/23.98	12	YCbCr 422	425-1	4	2048-2
	3840x2160	30/29.97/25/24/23.98	10	YCbCr 422, 420	2081-10		2048-1
6G	4096x2160	30/29.97/25/24/23.98	10	YCbCr 422	2081-10		2048-1
	1920x1080	60/59.94/50	10	RGB, YCbCr 444	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	10	RGB, YCbCr 444	2081-10		2048-2
	1920x1080	60/59.94/50	12	RGB	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	12	RGB	2081-10		2048-2
	1920x1080	60/59.94/50	12	YCbCr 422	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	12	YCbCr 422	2081-10		2048-2
	1920x1080	120/119.88/100	10	YCbCr 422, 420	2081-10		274 (ITU-R BT.2100)
	2048x1080	120/119.88/100/96/95.9	10	YCbCr 422	2081-10		2048-2
	3840x2160	30/29.97/25/24/23.98	10	YCbCr 422, 420	2081-10		
12G	4096x2160	30/29.97/25/24/23.98	10	YCbCr 422	2081-10		2048-1
	1920x1080	60/59.94/50	10	RGB, YCbCr 444	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	10	RGB, YCbCr 444	2081-10		2048-2
	1920x1080	60/59.94/50	12	RGB	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	12	RGB	2081-10		2048-2
	1920x1080	60/59.94/50	12	YCbCr 422	2081-10		274 (ITU-R BT.2100)
	2048x1080	60/59.94/50/48/47.95	12	YCbCr 422	2081-10		2048-2
	1920x1080	120/119.88/100	10	YCbCr 422, 420	2081-10		274 (ITU-R BT.2100)
	2048x1080	120/119.88/100/96/95.9	10	YCbCr 422	2081-10		2048-2

For the most current specification information, please visit [christiedigital.com/gateway](http://christiedigital.com/gateway)

Copyright 2024 Christie Digital Systems USA, Inc. All rights reserved. All brand names and product names are trademarks, registered trademarks or tradenames of their respective holders. "Christie" is a trademark of Christie Digital Systems USA, Inc., registered in the United States of America and certain other countries. Performance specifications are typical. Due to constant research, specifications are subject to change without notice.  
CDS109-Mastering-Gateway-datasheet-Nov-24-EN

