

# Christie Spyder X20

Auditoriums  
Boardrooms  
Broadcast studios  
Conference rooms  
Control rooms

Houses of worship  
Media centers  
Post-production  
Rental and staging  
Training rooms



## Fast and flexible video processing and matrix switching

The Christie® Spyder X20 is a versatile hardware-based video processor combined with the flexibility of a universal routing switcher. Its integrated source monitoring enables simultaneous, real-time, full frame rate monitoring of all inputs.

The Spyder X20 provides users with a 20 megapixel bandwidth to blend, window, mix and scale any source format and then routes the signal to any destination device or combination of display devices - quickly and easily. It is easy to deploy and install because of its advanced architecture and reduces the amount of wires, boxes and rack space traditionally required because everything is all in one unit.

**CHRISTIE®**

# Unrestricted multi-window processing

The Christie® Spyder X20 offers a unique architecture that allows for a resolution and video format-independent environment. Users are no longer restricted to the resolution of a single computer or video source, or a single display destination. Multiple displays can be combined to generate an enhanced resolution to exceed what any single display can support.

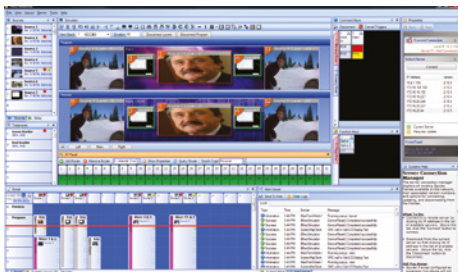
Ideal for live event and broadcast environments, its 20 megapixel bandwidth enables the Spyder X20 to drive multiple displays to achieve higher brightness, image quality and resolution. The Spyder X20 can be used in many different environments and with any combination of display devices.

## This generation of Spyder

The Spyder X20 is designed for users in any environment to take images from unique sources, use a variety of display systems and present the images as intended. It is ideal for applications such as live events, broadcast, high-end boardrooms, command and control, houses of worship and education – any installation that has multi-windowing, multiple displays and processing requirements. The Spyder X20 also offers the flexibility to display 2D and 3D content simultaneously in the same display.

## Software interface

The Microsoft® Windows® based control software provides full set-up, configuration, and real-time control with an easy-to-use interface.



▲ Vista Advanced is a Windows-based software interface that makes it easy to configure and control the Spyder X20.

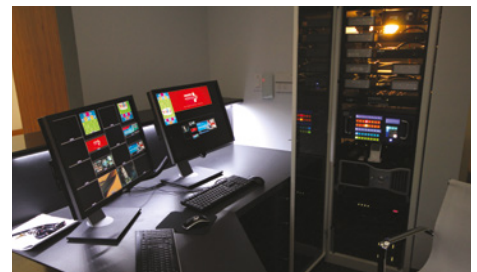
## Features

### Key features

- 20 megapixel bandwidth
- Internal matrix switching
- Universal input/output capabilities – mix and match multiple formats with one piece of equipment
- Input capability – either 8 or 16 inputs (depending on model) that can be a mix of analog BNC and DVI signals
- Output capability – 8 outputs that natively support any display from component analog 480i to digital 4K
- Built-in conversion for analog/digital, interlaced/progressive, resolution, aspect ratio and refresh rate
- 2D and 3D capabilities
- Manages and displays multiple 3D sources
- Define properties for each output independent of each signal
- Integrated source monitoring – real-time and full frame-rate view of all sources connected to the Spyder X20 (either 16 or 8 inputs) on a single output, tiled into either a 4x4 array (X20-1608) or a 4x2 array (X20-0808)
- Single point of control for all processing and signal distribution functions from front panel, PC via Ethernet, or external control system
- 10-bit processing
- Small form factor – (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm). Additionally, only one piece of equipment is required so the overall space used in a rack is reduced
- Each output individually supports rotation – enabling the creation of vertically-oriented displays
- User-definable edge blending and tiling
- Create any kind of window border or drop shadow with adjustable color, width, softness, shadow offset and transparency
- Online editing mode allows for preset displays to be built and edited in preview mode without affecting what the audience is seeing

### Additional features

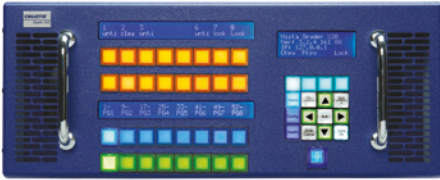
- Built-in image Still Store functionality
- Built in VESA calculator for custom resolution outputs
- Intuitive graphical user interface (GUI)
- Simple cohesive control of all functions
- Redundant hot swappable power supplies
- Optional stereoscopic support
- Advanced auto-sync functionality
- Bitmap borders
- Window titling
- Optional HDCP support



▲ Reduced rack space.



▲ Bitmap borders.



- ▲ Front panel  
With the Spyder X20, layers can be in 'program' and in 'preview' mode. You can build preset displays in preview mode using live layers without affecting the display being viewed by the audience.



- ▲ Spyder X20-1608 rear panel  
The Spyder X20-1608 has 16 inputs and 8 outputs, that can be a mix of analog BNC and DVI signals.



- ▲ Spyder X20-0808 rear panel  
The Spyder X20-0808 has 8 inputs and 8 outputs, and is easy to use and configure.

## Technical specifications

		Christie Spyder X20-0808	Christie Spyder X20-1608
Input	number	<ul style="list-style-type: none"> <li>• 8 inputs</li> <li>• 4 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M)</li> <li>• 4 supporting progressive DVI and progressive RGBHV</li> </ul>	<ul style="list-style-type: none"> <li>• 16 inputs</li> <li>• 8 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M)</li> <li>• 8 supporting progressive DVI and progressive RGBHV</li> </ul>
	signals	• Analog RGB composite, component • DVI, single-link and dual-link (8 inputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165 MHz • DVI up to 330 MHz	
	resolutions	• Horizontal resolutions up to 2560 and vertical resolutions up to 2160 within 330 MHz (any resolution greater than 2048 x 1200 uses 2 input channels)	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Output	number	• 8 @ (< 2048 x 1200) or 4 @ (2560 x 1600) or a combination of 4 dual-link and 4 single-link resolutions	
	signals	• Analog RGB, component • DVI, single-link and dual-link (4 outputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165 MHz • DVI up to 330 MHz	
	resolutions	• Horizontal resolutions up to 2560 and vertical resolutions up to 2160 within 330 MHz	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Control and networking	• RS-232 in/out • Ethernet (10/100/1000)		
Enhanced feature sets	<ul style="list-style-type: none"> <li>• Independent aspect ratio and frame-rate setup</li> <li>• Overlays</li> <li>• Transitions</li> <li>• Aspect ratio conversions</li> <li>• Integrated source monitoring</li> <li>• Output rotation (portrait)</li> <li>• Optional stereoscopic support</li> <li>• Optional HDCP support</li> <li>• 2D and 3D capabilities</li> </ul>		
Accessories	standard	<ul style="list-style-type: none"> <li>• User manual (CD-ROM)</li> <li>• 2 AC power cords</li> <li>• Vista Advanced 2009 software</li> <li>• Rack hardware</li> </ul>	
Power requirements	operating voltage	• 100-240 VAC @ 50/60Hz	
	operating current	• 9.0A @ 100 VAC	
	power	• 900W	
	dissipation	• <750 BTU/hr	
Physical	space requirements	• 4RU	
	size	• (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm)	
	shipping size	• (LxWxH): 32.3 x 25.5 x 15.0" (820 x 648 x 381mm)	
	volume	• 2652in <sup>3</sup>	
	weight	• 59lbs (27kg)	
	shipping weight	• 70.5lbs (32kg)	
Environment	• Temperature: 40-95°F (5-35°C) • Humidity: 20-80% non-condensing		
Regulatory approvals	<ul style="list-style-type: none"> <li>• This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC):</li> <li>• UL/CSA/IEC 60950 (3rd edition) • FCC Class A, CE, CCC • RoHS, WEEE</li> </ul>		
Warranty	<ul style="list-style-type: none"> <li>• Two years parts and labor</li> <li>• Contact an authorized Christie representative for full details of our limited warranty</li> </ul>		

## Minimum PC requirements

**Microsoft Windows 7 Based Computers**  
Microsoft's Windows 7 platform provides a rating called the 'Windows Experience Index', which measures the capability of your computer's hardware and software configuration and expresses this measurement as a number called a base score. A higher base score generally means that your computer will perform better and faster than a computer with a lower base score, and makes it simple to purchase a PC with confidence that it will work properly with the Vista Advanced software interface.

### Requirements

'Windows Experience Index' of 4.0 or greater

**Microsoft Windows XP Based Computers**  
Computers running the Windows XP user interface do not support the 'Windows Experience Index' provided in Windows Vista and Windows 7, and therefore the hardware profile listed below can be used as a base hardware configuration.

### Requirements

Pentium 4, 2.5Ghz or equivalent  
512MB of RAM  
128MB, DirectX 9.0 compatible video card (Nvidia preferred)  
Windows XP Professional, Service Pack 3  
Microsoft .NET framework, Version 4.0  
Microsoft DirectX 9.0c or later

Note: MAC or PC emulators such as VMWare and Microsoft Virtual PC should not be used to run Vista Advanced; support cannot be provided for users using an emulator of any kind.



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