

Blackmagic Design SmartView 4K G3

ProdCode: BMDSMTV4K12G3

15.6" 4K Ultra HD Monitor with 12G-SDI and SMPTEâ€™2110 IP Video Connections

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Features

- 15.6" 4K Ultra HD Monitor
- 12G-SDI and SMPTE-2110 IP video inputs
- Connects directly to IP based broadcast systems as well as a range of 12G-SDI professional video equipment up to 2160p60
- Supports Ultra HD video standards on both its 12G-SDI and the 10G Ethernet based 2110 IP video inputs
- Includes AC and 12V DC power connections, 3D LUTs & monitoring controls such as focus peaking, H/V delay, blue only and framing guides
- Switch between SDI and IP at the push of a button
- Supports the NMOS interface specifications so all your 2110 IP video devices can operate together as a large virtual router
- VESA mounting point
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SmartView 4K G3 features built in optical and copper SMPTEâ€™2110 IP video connections so you can connect directly to IP based broadcast systems. You also get two 12G-SDI inputs for connecting to a wide range of professional video equipment.

Plus both the 12G-SDI and 2110 video inputs can output to a 12G-SDI loop output connection. The design still features a lightweight machined aluminum chassis and a full resolution Ultra HD LCD. The on screen overlays include focus peaking, framing guides, safe area and more. You also get built in 3D LUTs for adding creative looks, converting log film gamma or handling custom HDR profiles.

The Perfect Video Monitoring Solution

Broadcast

SmartView 4K is ideal for broadcast as it supports both 12G-SDI and 2110 IP up to 2160p60. Switch between SDI and IP at the push of a button. SmartView 4K follows the video input so will switch between all SD, HD or Ultra HD standards automatically.

Live Production

For live production, it's vital to get a solution with features to accurately monitor cameras. Powerful camera features include focus peaking, zoom, aspect ratio markers and tally. Plus the 4K display lets you see incredibly fine camera image detail.

Fly Away Kits

Fly away kits need to be portable and tough. SmartView 4K is lightweight aluminium so it's light, plus it's only a few inches deep, so allows great rack ventilation via natural convection. Plus it has lots of camera and technical monitoring features.

Anodized Machined Metal Design in Deep Black

SmartView 4K features an incredibly strong machined aluminium metal design with crisp clean lines. The design is anodized in deep black, so it looks fantastic mounted in equipment racks with other Blackmagic Design equipment. Plus SmartView 4K is only a few inches deep. Because monitors are often installed at the top of equipment racks, this thin design allows a large area behind the monitor to better ventilate the whole rack and keep all the equipment cool. Along the bottom of the SmartView 4K is a range of button controls that are tilted slightly so they're easier to press. On the rear of the monitor are all the video connections, plus there's even a VESA mounting point.

Bright High Resolution Display

The LCD used on SmartView 4K features an extremely high resolution so it will display every pixel in an Ultra HD image. That means you get an incredibly clean image with deep colour fidelity. To avoid messy fingerprints on the LCD screen, SmartView 4K has a row of buttons along the bottom of the screen so you can adjust all the monitor

controls without touching the screen. SmartView 4K is designed for broadcast so it will instantly lock to a new video source, which is very common when the monitor is connected to a router and the input can change constantly to different timed sources. Unlike TVs, the video is not over scanned so you get all image pixels right to the edge of the LCD.

Front Panel Buttons for Monitor Control

The SmartView 4K front panel includes a wide range of monitoring controls. The input button selects between the two 12G-SDI video inputs and the 2110 IP video input. The display button allows you to adjust display brightness. The H/V display is a traditional broadcast monitor function that lets you look into the image blanking. Blue only is great for checking hue from SD archive content. The zoom button lets you zoom the image in for adjusting camera focus. Peaking highlights sharp image detail and is also perfect for adjusting camera focus. The 3D LUT buttons let you enable and switch between 3D LUTs. The H and V marker buttons let you display and adjust up to 4 on screen markers.

Includes Frame Guides and Focus Peaking

When you're working with cameras, SmartView 4K has everything you need to assist in framing and focus with its on screen graphic overlays. Overlays include safe area and safe title markers. Plus there are 4 separate frame guides, 2 vertical and 2 horizontal, which can be displayed simultaneously and are perfect for social media and feature film framing. The markers are all individually adjustable so you can create any aspect ratio you like. You also get on screen focus peaking, which can be turned on and off with a dedicated front panel button. Focus peaking is perfect when using SmartView 4K for remote camera monitoring, as you can ensure your remote camera has perfect focus at all times.

Get Colour Accurate Monitoring with 3D LUTs

Broadcasters and feature film productions often work with SDI sources that are encoded with log film gamma or an HDR profile. This means the images can look washed out or have incorrect colours. SmartView 4K solves this problem because it includes support for 3D LUTs. This means you can use a 3D LUT to re-map the SDI or 2110 input colourspace to the SmartView 4K screen. Plus you could also use 3D LUTs for exciting creative looks. 3D LUTs are easy to use and are uploaded using the SmartView utility. You can also export DaVinci Resolve colour grades as custom 3D LUTs. Because DaVinci Resolve can be downloaded free, it costs absolutely nothing to start creating a library of exciting 3D LUTs.

Supports SD, HD and 2K DCI Film The high performance 12G-SDI and 10G Ethernet based 2110 IP inputs are multi rate so they support lower resolution SD for archive, plus HD for broadcast and 2K for feature film use. These include 525i59.94 NTSC, 625i50 PAL, 720p50, 720p59.94, 720p60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95, 1080p48, 1080p50, 1080p59.94, 1080p60, 1080PsF25, 1080PsF29.97, 1080PsF30, 1080i50, 1080i59.94, 1080i60, 2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI, 2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95 DCI, 2Kp48 DCI, 2Kp50 DCI, 2Kp59.94 DCI and 2Kp60 DCI, 2KPsF25 DCI, 2KPsF29.97 DCI and 2KPsF30 DCI. When connected to 3G-SDI sources, both level A and B video standards are supported.

Supports Ultra HD and 4K DCI Film

SmartView 4K also supports Ultra HD video standards on both its 12G-SDI and the 10G Ethernet based 2110 IP video inputs. Ultra HD video standards include 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p47.95, 2160p48, 2160p50, 2160p59.94 and 2160p60. Supported 4K film standards include 4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI, 4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95 DCI, 4Kp48 DCI, 4Kp50 DCI, 4Kp59.94 DCI and 4Kp60 DCI, 4KPsF25 DCI, 4KPsF29.97 DCI and 4KPsF30 DCI. This means SmartView 4K is the ideal monitor because it allows you to migrate to Ultra HD and 4K work now. Plus SmartView 4K can be software updated, so new television standards can be added when they are invented.

Connect Directly to SMPTE 2110 IP Networks

Now you can build modern IP video systems because SmartView 4K fully conforms to the SMPTE 2110 standard for IP video with both optical fiber and copper 10G Ethernet connections. SMPTE 2110 specifies the transport, synchronization and description of video, audio and ancillary data over IP networks for broadcast. This includes support for SMPTE 2110-20 uncompressed video, the Blackmagic IP codec for high frame rate Ultra HD as well as SMPTE 2110-21 traffic shaping/timing, SMPTE 2110-30 audio and SMPTE 2110-40 support for ancillary data. Plus the selected video input can be sent out via the 10G Ethernet SMPTE 2110 IP connection with full support for multicast out to multiple destinations.

Includes NMOS Protocol for Virtual Routing

SmartView 4K supports the NMOS interface specifications so all your 2110 IP video devices can operate together as a large virtual router. Plus Videohub Smart Control can route sources to destinations on 2110 IP networks because it can act as an NMOS controller. The NMOS interface specification describes how SMPTE 2110 devices are

discovered and controlled on IP networks. SmartView 4K supports IS-04 for discovery and registration of IP video devices and IS-05 for connection management between IP video devices. This means you can make connections between sources and destinations just like a traditional SDI router.

Built-in Tally Border for On Air Status

When you're working with live production, SmartView 4K supports the Blackmagic SDI Tally Protocol and illuminates a coloured border around the image, in red for on air or green for preview. This SDI tally standard is used on all ATEM live production switchers so you can simply connect the monitor to the switcher SDI outputs to get the image and the tally with a single BNC cable. This means that a director can cut between cameras and the tally information will be sent back to the SmartView 4K via the SDI video feed. This totally eliminates complex cabling and the Blackmagic SDI Tally Protocol helps you set up for jobs much faster.

Remote Control Software for Mac and Windows

When you need to change settings or update the software on your SmartView 4K, then you can simply download and run the SmartView Utility software which is available free of charge on the Blackmagic Design support site. This software is available for both Mac and Windows computers and it connects via the USB connection or Ethernet when you have the SmartView 4K Ethernet connected. You can use the utility to change the monitor custom name for identifying monitors in larger systems. You can also select between 3G-SDI level A and level B formatting. To protect against unauthorized network access, Ethernet is disabled by default, but can be enabled when connecting via USB.

Develop Custom Remote Control Solutions

Videohub includes a powerful remote control protocol so you can create custom remote control solutions for integrating SmartView 4K into your broadcast systems. It's extremely easy to learn because it's a simple text based protocol you can even play with using a Telnet client. This means you can create custom control solutions on all computer platforms and from embedded hardware such as Raspberry Pi and Arduino. You get full control of LCD brightness, contrast, saturation, tally, input selection and you can even activate a 3D LUT. The best way to learn the protocol is to log in using a simple Telnet app and then use the documentation in the SmartView 4K manual to try out each command.

Flexible and Redundant Power

The all in one design of SmartView 4K includes a built in power supply so you don't have to carry around an external power brick. Simply plug it into any AC mains outlet and start live production. The international power supply automatically works from 100 to 240V AC, so you can use it anywhere in the world. Plus, for safety, SmartView 4K includes both AC and 12V DC power connections. The mini converter style 12V DC power connection is perfect for backup power or for running on batteries. Running on batteries means you can use it in extremely remote locations. Plus, if the internal power supply should ever malfunction, then you can connect a DC power supply to keep running.

In the box:

- SmartView 4K G3
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