

AJA KONA 3G Q&A

3/2011

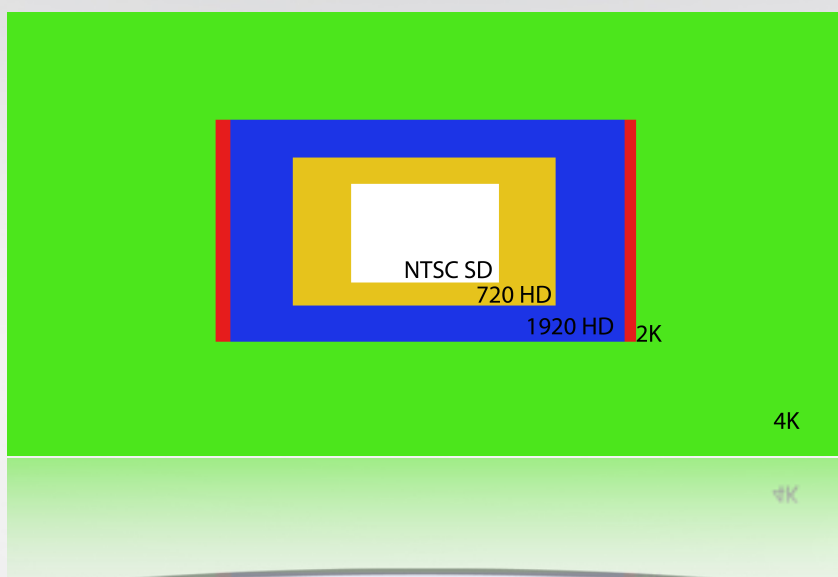


1. What is new for the KONA 3G at NAB 2011?

The KONA 3G now supports 4K Mode playout via free v9.0 software, allowing users to handle the highest end workflows without spending any extra above their initial KONA 3G investment. New v9.0 software is available now at www.aja.com

2. What is this new 4K playout capability?

4K playout is an ever increasing need for post production teams working with cameras like the RED One and more. The extremely high resolution of this format, as you can see in the image below, is orders of magnitude larger than than an SD or even HD signal.



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To access the new 4K capabilities of the KONA 3G, the user simply chooses 4K mode in the AJA Control Panel and connects 4 SDI cables either to the card itself or the K3G-Box and an appropriate 4K monitor or projector.

The four SDI connectors on KONA 3G are Bi-directional. In the 4K mode, all four are switched to an output mode to provide the 4K output.

Note that the four SDI connections do not support four output streams of separate signals, instead all four combined support the industry-standard BNC connectivity of 4K signals.

3.What software can utilize the 4K capabilities of the KONA 3G?

Upon release of the 9.0 software, the user can use Apple Final Cut Pro 7, AJA TV and AJA VTR Xchange software for 4K playback and video output. As with any high resolution format, adequate storage and speed is a must.

As more software packages are certified for 4K playback and video output compatibility, AJA will inform the channel.

4.What are the differences between the KONA 3G and the previous generation KONA 3?

You may currently own a KONA 3 and wonder what benefits are to be had by upgrading to a KONA 3G.

The KONA 3G is an exciting upgrade to AJA's flagship KONA 3.

The KONA 3G has all the same features as the KONA 3 but also includes these additional features, offering the ultimate in 4K, 2K, 3G and true stereo HDMI workflows:

- 3G SDI – 2 inputs and 2 outputs (or configured as 4 outputs in 4K Mode)
- HDMI v1.4a true stereo output at 10-bit
- 8 channel AES/EBU and extended 16-channel AES/EBU support on the K3G-Box
- PCIe 2.0 for extended bandwidth and high data rate needs

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5. What is 3G SDI and why is it valuable to me?

3G SDI is one of the latest SMPTE standards (SMPTE 424M) to follow SD-SDI and HD-SDI.

This standard effectively doubles the data rate of HD-SDI allowing for the transmission of 1080p at 50 or 60 fps over a single coaxial cable rather than two.

For users who currently have 3G SDI devices to connect to, this may be immediately useful for high frame rate production and post.

3G SDI is also used for mastering to the Sony SRW-5800/2 Deck (with appropriate 3G option board installed), capturing from an ARRI Alexa Camera, or output to a Barco RHDM-2301P Monitor.

Furthermore, a set of 3G-SDI Mini-Converters from AJA can be used in conjunction with these devices and with the KONA 3G to convert, monitor, transmit, and receive high bandwidth video in a variety of ways for movement and display of your video assets anywhere on your set or in your facility.

These 3G-SDI features are simply new features for KONA 3G users, while also offering standard 1.5G SD/HD-SDI signal compatibility.

6. What is HDMI 1.4a and why is it valuable to me?

HDMI 1.4a defines a way for video output devices and video monitors to talk to each other and automatically display stereoscopic 3D images.

7. What 3D modes does KONA 3G support via HDMI 1.4a?

KONA 3G supports the minimum CEA standards for 3D modes:

1. "Side-by-Side"
2. "Top-Bottom"

The "Side-by-Side" and "Top-Bottom" modes involve compressing, either horizontally or vertically, each input for combining into a single video stream at the same rate of the inputs.

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8. What is the Pricing on the KONA 3G?

The MSRP of the KONA 3G is an unbelievable \$1995 US MSRP.

9. Is there a breakout box for the KONA 3G?

There is a 1RU rack mount Breakout Box option, the K3G-Box which is available for use with the KONA 3G.

The K3G-Box adds the additional over the standard breakout cable:

- 16 channel AES audio
- 2-channel RCA analog audio monitoring jacks
- Looping BNC Genlock reference connectors

The K3G-Box MSRP is available for \$395.00 US MSRP.



10. Do all the same Mac and Windows applications work with KONA 3G?

Nearly all of them will.

Applications for which AJA specifically writes the support, such as Apple Final Cut Studio and Adobe CS5.5 applications all work.

Applications where KONA support is developed by the the software vendor may require some work by the application developer. Autodesk Smoke on Mac, for example, already supports KONA 3G.

For clarification, talk to your AJA reseller, or email sales@aja.com

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11. Where do I go for more information on the KONA 3G?

More information can be obtained from your local reseller or you can visit the AJA website:

<http://www.aja.com/products/kona/>

Or you can call or email AJA Sales directly for more information: sales@aja.com

12. What is the warranty period for the KONA 3G?

The warranty period for the KONA 3G is a generous 3 years, the standard international warranty period for all AJA Edit products.

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