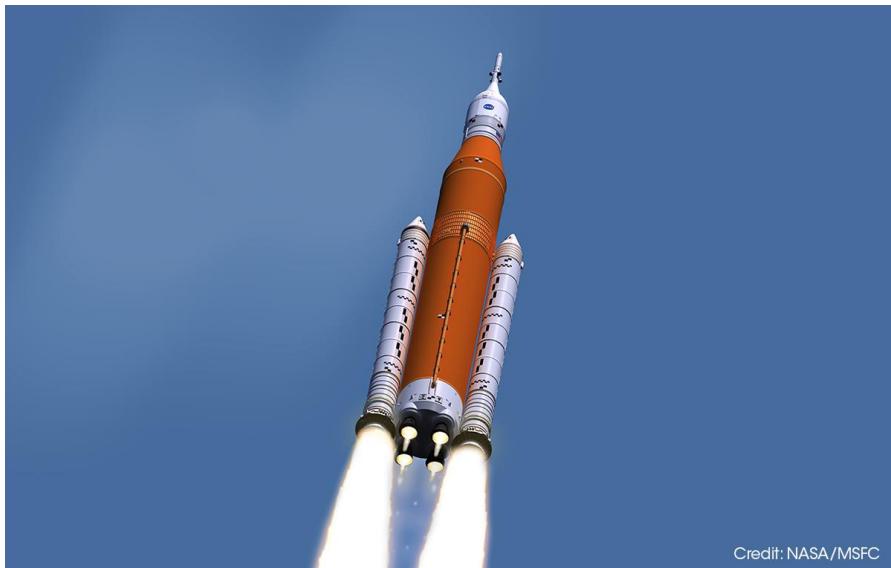


NASA Selects Analog Way's VIO 4K Multi-Format Converters for Space Launch System Rocket



Credit: NASA/MSFC

Analog Way is proud to announce that its VIO 4K powerful multi-format converters will be used as part of the ground video processing for cameras mounted on the first, or core, stage of NASA's Space Launch System (SLS) rocket.

The most powerful rocket ever built by NASA, SLS is the vehicle that will be used to launch missions beyond Low Earth Orbit (LEO). More powerful than the Saturn V moon rocket, SLS will enable astronauts to begin their journey to explore destinations far into the solar system.

SLS has eight cameras on the exterior of the rocket to document the launch. These cameras are encoded and recorded. The on-board video system will stream two video feeds that switch between the cameras to show the required views during the launch timeline. That video is sent to the ground as part of the rocket's

telemetry data stream.

A specialized decoder, which has only DVI outputs, receives the video streams. But DVI needs to be converted to HD-SDI so the video can be distributed at the Launch Control Center monitoring the rocket's performance at the Kennedy Space Center and to feed other centers through NASA's internal video network.

Enter Analog Way's VIO 4K processors, which will convert DVI to HD-SDI and provide a video processing amplifier for each video stream. After the core stage boost phase is done and it separates from the rest of the rocket, the on-board recordings of each camera, from lift-off to separation, will be downlinked to the ground processing unit. The recordings will also be played after launch for image analysis teams.

Analog Way – Pioneer in Analog, Leader in Digital

Analog Way is one of the world's leading designers and manufacturers of innovative equipment dedicated to the professional audio visual industry. Since 1989, Analog Way has developed and manufactured a wide range of high-end solutions and reliable equipment for professional AV applications including video wall processors, mixers and seamless switchers, event controllers and multi-format converters, as well as software and integration tools. With the acquisition of the Finnish media server manufacturer Picturall, Analog Way added an extensive range of heavy-duty media servers to its portfolio. Analog Way products provide premium solutions for Rental & Staging, Corporate, Broadcast, Institutional, Education, and House of Worship markets around the globe.

Customer:
NASA

Location:
Kennedy Space Center, Cape Canaveral (FL)

Analog Way products:
• VIO 4K

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"NASA tried a variety of video converters and found the VIO 4K to be the only one that always works with the ground system decoder," says Walter E. Lindblom at NASA. "All of the testing done with the VIO 4K and the ground system decoder has been 100 percent successful. Regardless of the video format, the VIO 4Ks have locked up as soon as a valid video stream is present at the inputs."

Video feeds are recorded in both 1080p30 and 720p60. During the launch, the 1080p cameras are used for the first part of the ascent phase. Then both channels switch to 720p60. The ground decoder takes several seconds to change formats, so those units are all equipped with four decoder channels so that the switch from 1080p to 720p doesn't lose information.

For distribution within NASA of both the live video feeds and the first playbacks, the VIO 4Ks will be set for 720p. Full camera recordings played back for the image analysis groups will be done in native format with the video processing capabilities of the VIO 4K used to enhance the imagery.

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