

# Video Production: Recording 8K with high shock resistance



Virtium fulfills camera company's high-capacity small form factor needs.

## Industrial Embedded Technology for an Interconnected World

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## Challenge

A major camera manufacturer was looking for an embedded storage solution that would meet the performance and capacity needs of their flagship cinema camera.

The previous SSD that it used could not provide a sufficient data rate to record 8K resolution video. Running an industrial RTOS, the SSD had to pass their rigorous video recording test for an extended period without any dropped frames.

Another requirement was the ability to withstand thermal stress and shock conditions. During video recording, the SSD is exposed to repeated heating and cooling cycles. Due to thermal expansion and contraction, this can add mechanical stress on the SSD's components.

The camera testing also included aggressive drop tests to simulate possible events in the field where the SSD could undergo extreme g-forces. Previously tested drives would fail due to small cracks in the solder pads upon direct impact from the drops.

## Solution

Virtium's unique 1TB SSD solution offered a high capacity in an embedded form factor and replaced the previous drive with better performance and durability. Not only did the drive meet the camera manufacturer's high-capacity small form factor requirement, but it also provided increased write performance for their application.

It successfully completed video testing for well over the specified amount of test hours without any dropped frames. Additionally, Virtium provided a solution that increased device reliability under high thermal stress and impact from drops.

## Result

The camera manufacturer continues to lead the digital cinematography industry with their groundbreaking 8K camera offerings. With Virtium's industrial-grade drives they can confidently offer higher capacity storage that tolerates extreme hot and cold temperatures and provides industry-leading shock resistance.

The interconnected challenges feature-length film makers must face include: cost overruns and critical timelines, as well as, equipment, environment and talent challenges. Customers using these 8K camera solutions with Virtium industrial-embedded storage solutions can be further assured that critical data storage failure will not be on that list.

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Virtium manufactures memory and storage solutions for the world's top industrial embedded OEMs. For two decades we have designed, built and supported our products in the USA - fortified by a network of global locations. Our world-class technology and unsurpassed support provide a superior customer experience that continuously results in better industrial embedded products for our increasingly interconnected world.

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