

A person with curly hair, wearing a blue long-sleeved shirt, is shown from the side, holding a large professional camera with a lens attached. They are positioned in front of a large circular window or hatch. The background is filled with the complex, cluttered interior of a space station module, featuring various equipment, cables, and structural elements. The entire image is overlaid with a semi-transparent dark grey filter.

4K HDR SUMMIT

UHD at NASA

Carlos Fontanot

UHD on the Space Station: Red

Red digital cinema cameras have been on Space Station since 2015.

Currently using a Red Helium to capture ultra-high definition, cinematic quality video for a variety of customers.

A Red V-Raptor 8K camera was used by a Russian producer to shoot a movie onboard the ISS.

Captured 8K Space Walk video shooting through the ISS windows.



UHD on the Space Station: Canon

▶ Canon XF705 selected as the next Space Station internal camcorder.

Deployed in October 2021.

On board video will be recorded in 4K and downlinked as files, but regular live video downlink will still be in HD.

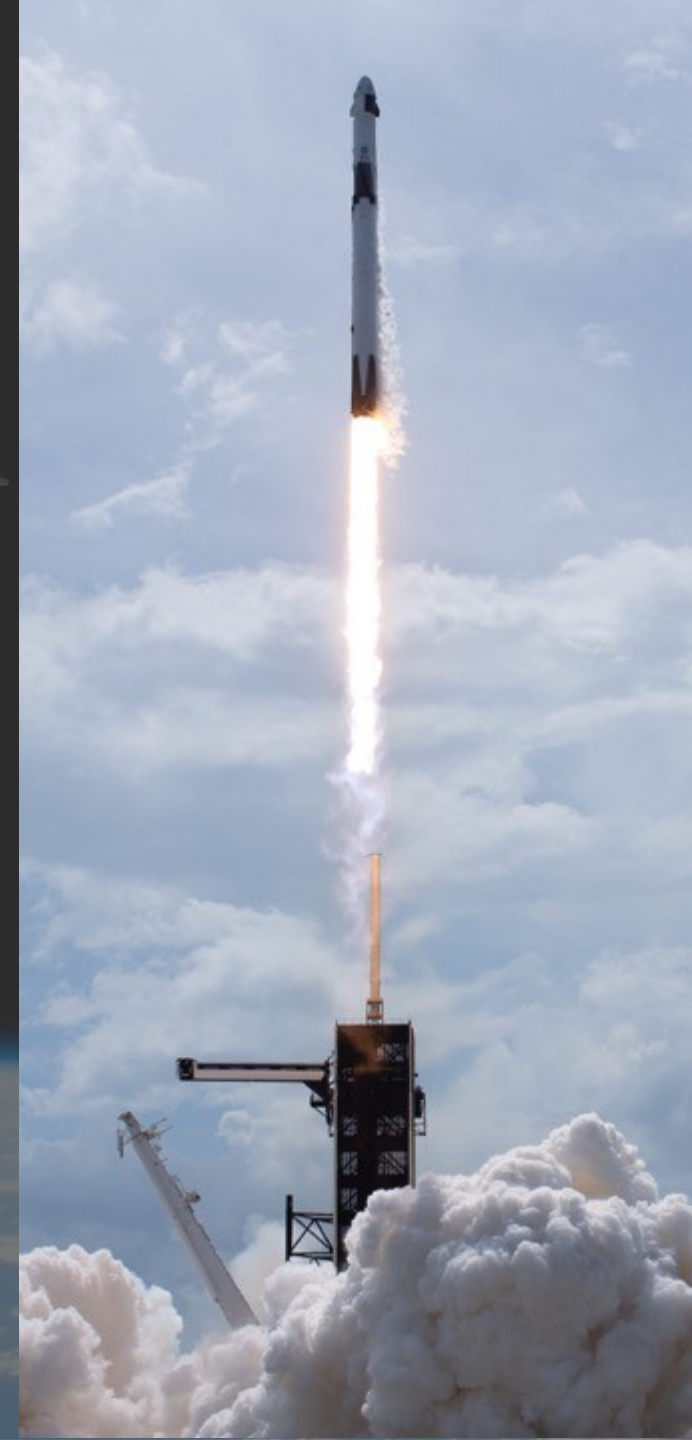
Implementing live 4K downlink capability for selected customers who request it; “build it and they will come” concept.



Capturing History: Commercial Crew

NASA plays a vital role in growing the commercial space economy.

A dedicated team of videographers, engineers, and storytellers are documenting these activities for the historical record.



UHD Launch & Landing Operations

Numerous UHD assets are used to cover the launch and landing of the SpaceX Crew Dragon.

- 4K drone coverage of pre-launch crew activities
- 4K drone coverage of launch pad
- Multiple 4K cameras on ground to cover various launch angles
- 4K landing tracking camera located offshore
- 4K drone coverage of splash down
- WF-57 high altitude NASA aircraft outfitted with 4K cameras for tracking landing crew vehicles. Footage used for parachute



Capturing History: Next-Gen Crew Vehicle

Orion, NASA's next generation crew vehicle, will take us back to the Moon. NASA is using UHD cameras to document vehicle tests, capturing high quality video for the historical archive.

NASA is also investigating different camera technologies - such as mirrorless cameras - for use on Orion, Gateway, the Lunar Lander, and Lunar Surface. One handheld



The Future of NASA TV

NASA TV is moving from over-the-air to an app-based distribution model.

The “Olympics” model: Concept is to bring NASA events to the world using an app that is capable of distributing UHD content across a variety of platforms – computers, mobile devices, smart TVs, set top boxes, etc.

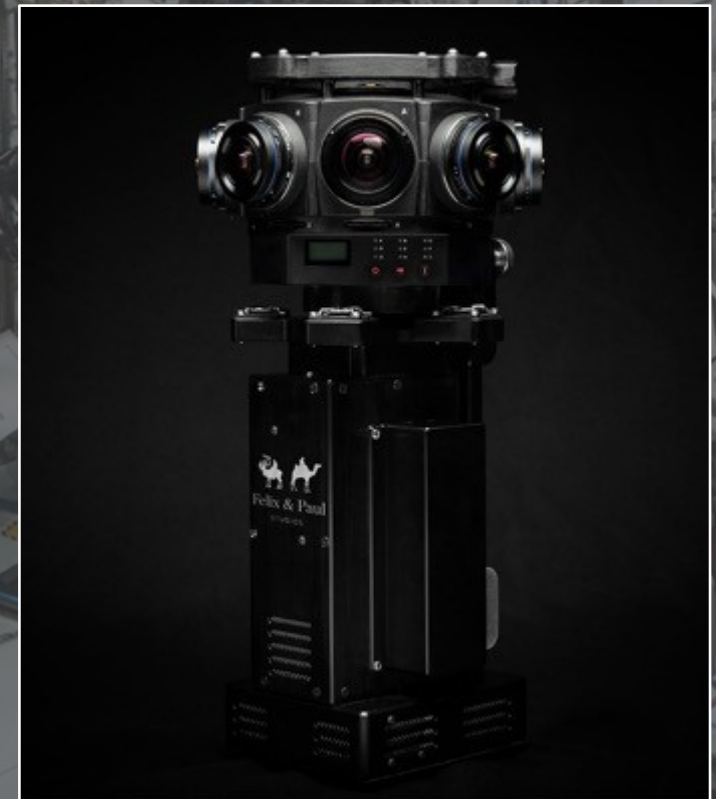


The ISS Experience

The ISS Experience is an Emmy Award-winning documentary series filmed on the Space Station in cinematic 3D 360° UHD.

Created and produced by Felix & Paul Studios, *The ISS Experience* puts viewers on the Space Station. The videos can be viewed in Oculus goggles, at museums and other cinema venues, and at The Infinite – a multisensory, interactive exhibit.

www.felixandpaul.com
theinfiniteexperience.com



NASA Imagery

NASA imagery can be found at several locations around the web:

www.nasa.gov/multimedia/nasatv/
NASA TV on the web, plus additional information about NASA TV channels (including UHD content)

images.nasa.gov
The NASA Image and Video Library

eol.jsc.nasa.gov
The Gateway to Astronaut Photography of Earth

www.youtube.com/user/NASAtlevision
The official NASA TV YouTube channel

