

NAF NEXT 2017

360 Video Requirements

There are two types of 360 videos

- Monoscopic
- Stereoscopic

We recommend using monoscopic video to ensure most schools can participate as the acquisition of stereoscopic video will require professional equipment and extensive post production work.

Minimum hardware requirements

Any 360 camera rig capable of shooting at least 3k+ resolutions with low compression is the minimum recommended specifications, a few good options are:

- SAMSUNG GEAR 360
- INSTA360 NANO
- NIKON KEYMISSION 360
- KODAK PIXPRO ORBIT360 4K

Recommended hardware

Camera rig capable of shooting 4k to 6k video (may require post processing)

- Gopro Omni (or custom GoPro rig with at least 6 cameras)
- Insta360 Pro
- Z CAM S1

Naming Conventions

We need to standardize naming conventions in order to keep all footage organized, please use the following structure:

- SCHOOLNAME_location_STEREO/MONO_horizontalResolution_SHOT#_MMDDYY_VERSION

Example:

- MDC_mainHall_MONO_4000PX_SH01_050617_V001.tif

- ❖ Don't use spaces on the file names
- ❖ Use camelcase for the location section
- ❖ Only standard ASCII characters in the filename (examples of characters not allowed: ü, á, ě, etc.)

Camel Case

“Compound words or phrases such that each word or abbreviation in the middle of the phrase begins with a capital letter, with no intervening spaces or punctuation.”

Final Video Requirements

- Target: Gear VR / HoloLens
- Encoding: h.264
- Minimum Resolution: 3840×2160
- FPS: 30
- Bitrate: 20 –30Mbps

Final Image Requirements

- For images please use 8-bit TIFF format with no layer
- Minimum resolution 4,000 x 2,000 pixels

Additional Notes for images and video:

- Your panoramas must be 360° - the left side of your panorama must match with the right side of your panorama
- No holes or black areas in the sky or distorted or badly retouched sky (zenith)
- No huge hole in the nadir nor distorted bottom of the panorama (nadir) -
Exceptions: Shadows, tripods, small holes and small mirror balls are ok
- No major stitching, color or exposure errors
- The panorama must be level. The horizon needs to be in the center of the image so it does not look curved or leaning one way or another unnaturally. One way to test this visually is to rotate the image while checking to be sure that vertical lines, like telephone poles or trees, remain vertical as you pan around.