

Clause 5 NaSTA Technical Standards

1. All NaSTA awards entries requiring a video submission must conform to one of three NaSTA approved technical standards. The station submitting for an entry may choose which standard to use for each entry and may use a different choice for each entry if desired / required.
2. All video entries are required to be in a 16:9 (widescreen) format, regardless of the original source's aspect ratio. If your source footage in a old aspect ratio (4:3, 14:9) please use the N-SD export standard otherwise if your edit / render is in a different aspect for stylistic reasons (4:3, 14:9, 2.35:1) then please use either N-FHD or N-HD and export to 16:9 with appropriate boxing (Letter box or Pillar box).
3. Any entry which does not conform to one of these standards may face sanctions or be disqualified as a result of failing to comply with entry requirements.
4. The three NaSTA Technical Standards are: N-FHD, N-HD & N-SD

Video Specification	N-FHD	N-HD	N-SD
Resolution	1920 x 1080	1280 x 720	1024 x 576
Frame-rate	25 FPS	25 FPS	25 FPS
Field Order	Progressive	Progressive	Progressive
Aspect	Square Pixels (1.0)	Square Pixels (1.0)	Square Pixels (1.0)
TV Standard	PAL	PAL	PAL
Codec	H.264 MP4 Container	H.264 MP4 Container	H.264 MP4 Container
Encoder Profile	High	High	High
Encoder Level	4.1	4.1	4.1
Bitrate Encoding	VBR, 2 Pass	VBR, 2 Pass	VBR, 2 Pass
Target Bitrate *	10 Mbps	5 Mbps	3 Mbps
Max Bitrate *	15 Mbps	10 Mbps	5 Mbps

Audio Specification	N-FHD	N-HD	N-SD
Audio Codec	AAC-LC	AAC-LC	AAC-LC
Sample Rate	48 kHz or 44.1 kHz	48 kHz or 44.1 kHz	48 kHz or 44.1 kHz
Channels	Stereo	Stereo	Stereo
Audio Bitrate (Target)	192 kbps	192 kbps	192 kbps

5. * A host station may wish to use alternative target and / or maximum settings depending on playout systems, storage allocations, etc. However the host station must seek approval from the NaSTA Technical Officer before any temporary exceptions to these standards are granted.
6. Note for N-SD users: The PAL standard has been through many versions in the UK. Due to the fact all NaSTA submitted content will be viewed and played out via computer systems we have opted for a square pixel aspect over the PAL D1/DV Widescreen aspect of 1.4587. You should check that your output looks correct when exported to the N-SD format of 1024x576.