

BKAT File Specifications

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Digital Video

Our system can play nearly any format.

PREFERRED file specifications:

- MP4 format
- H.264 video encoding
- AAC audio encoding
- Video resolution of 1920x1080 29.97 interlaced
- Video bitrates at 5,000 Kbps (5Mbps) variable rate (VBR) or 3,500 Kbps (3.5 Mbps) constant rate (CBR).
- Audio at 48 kHz 128 Kbps

If your original material is 1280x720 (720P) HD, there is no need to “up convert” to the 1920x1080 (1080P) HD resolution, our playback server will scale it automatically.

Acceptable file specifications:

- MPEG-4 (.mp4) or QUICKTIME MOV (.mov). We do not accept .AVI files.
- Video codec: H.264

- Resolutions supported:
- HD 1920x1080 29.97 frames per second, INTERLACED (preferred) or PROGRESSIVE
- HD 1280x720 59.94 frames per second, PROGRESSIVE
- Video bit rate: Constant or variable, 3000 Kbps (3Mbps) minimum for HD. 7000 Kbps (7Mbps) MAX bitrate for all formats.
- Audio format: AAC-LC (preferred)
- Audio bitrate: 128 Kbps minimum (preferred), 256 Kbps maximum
- Audio sample rate: 48 kHz (preferred), or 44.1 kHz

Frame rates of 24, “24P”, 23.976, and 23.98 will play, but will be converted on playback to 29.97i resulting in some motion artifacts.

DO NOT use “AC3” or “DOLBY DIGITAL” for audio.

Standard Definition (SD) content is accepted, but will be scheduled for air between 10pm and 8am. Regular daytime playback timeslots are reserved for HD content. SD specifications are

as follows:

- MPEG-4 (.mp4) or QUICKTIME MOV (.mov). We do not accept .AVI files.
- Video codec: H.264
- Resolutions supported:
- SD Widescreen: 853X480 or 720x480 anamorphic 29.97 frames per second, INTERLACED (preferred) or PROGRESSIVE
- SD NTSC 4x3 aspect: 720x480 (DV) or 640x480 29.97 frames per second, INTERLACED (preferred) or PROGRESSIVE
- Video bit rate: Constant or variable, 2000 Kbps minimum, 5000 Kbps MAX.
- Audio format: AAC-LC (preferred)
- Audio bitrate: 128 Kbps minimum (preferred), 256 Kbps maximum
- Audio sample rate: 48 kHz (preferred), or 44.1 kHz
- There is no need to “up convert” to an HD resolution, our playback server will scale it automatically.
- If submitting a widescreen “anamorphic” file

or a widescreen file with burned in “letterbox” bars, please let us know so we can make the appropriate setting on our playback server.

NOTES:

If your video editing software export or output function doesn't have the options listed above available, you may need to enter into a “custom” export mode to see them. Sometimes the frame rates only appear as 30i, 60i, 30p, or 60p. For 1920x1080 use 30i, and for 1280x720 use 60p. If in doubt about a setting, try making a short sample file that we can test on our server for compatibility.

- 1920x1080 interlaced is sometimes listed as “1080i” or “1080/30i” or 1080/59.97i or 1080/60i
- 1280x720 is sometimes listed as “720p” or “720/60p”
- 853x480 is sometimes listed as “480P Widescreen” or “480P 16x9”
- 720x480 is sometimes listed as “DV 480i” or

- “DV 480/30i” or even “DV 480/59.97i”
- 640x480 is sometimes listed as “480i” or “480/30i” or even 480/59.97i

When creating 16x9 aspect “widescreen” SD material, we prefer that you create it in an “anamorphic” format if your editing system allows, or as a true 16x9 widescreen output (853x480). “Letterbox” bars burned into the video to place a 16x9 image into the SD 4x3 aspect frame are not desirable, as we have to perform a “zoom” into the video to fill the screen that lowers the visual quality even more. Either way, please let us know if you have 16x9 material in SD 720x480 format and what method you used so that we can adjust our playback accordingly.

Digital Still Images

Still images for insertion into editing projects by BKAT or for inclusion on the Community Bulletin Board need to meet these general specifications:

- Minimum pixel size of 1080 on the vertical dimension. In general, we prefer the largest original pixel size you can supply, as we can scale down as needed
- For photographs, use JPEG format with minimal compression (use “High Quality” or “larger file size” setting when saving)
- For logos and other artwork that needs to be superimposed over video, use .PNG format with transparency if possible. Vector formats such as .SVG or .EPS. are also acceptable

We accept digital files via our online upload service called “LiquidFiles” (10 GB max file size) available at the following link: <http://liquidfiles.bremertonwa.gov/filedrop/BKAT>

We are unable to accept files on physical media (DVD, Blu-Ray, USB hard drive or “thumb drives”, SD cards, etc) due to City of Bremerton IT department security restrictions. We also are unable to download files from YouTube.

We know this stuff can be confusing! Don't

hesitate to call us at 360-473-5026 or email us (see the “contact” info on the BKAT.org website) if you have questions. We want your video to be successfully played on BKAT!