



## Digital File Transfers and Media Specifications

**DVD** consisting of:

DVD-R format;

**Do not include color bars/tones or black to begin or end content submitted via DVD disc media!!!**

**All shows should be in ready to air format, meaning there are no color bars or black at the beginning and no extra black at the end of the show.**

The program material MUST have 2 channels of in-phase audio recorded throughout the show.

If the DVD is authored using one of the many authoring programs available, make sure it is in **NTSC** mode (picture size 720 x 480, NOT 720 x 586)

As DVD media varies in quality widely, we strongly recommend not burning the DVD at the maximum burn speed, but drop back at least 1 speed below maximum and if possible, do a verify. Most burning programs will allow this.

Please do not restrict the ability to rapid scan or search through the DVD, as this will prevent us from fixing problems that occasionally can occur.

The DVD should be labeled to contain the title of the show, the air date or episode number, and the correct length of the show.

**Digitally submitted programs should be in the following format:**

**MPEG 2** video consisting of:

Video files for playout must be encoded into a multiplexed MPEG-2 program or transport stream or MPEG-1 system stream format. Video can be encoded at rates up to 10 Mbps. **Please encode with a Constant Bitrate (CBR).**

The video and audio timestamps in a file must be continuous and increasing, with no haphazard edits that might affect the timestamps. The time between the first and last timestamps in a file should reflect the actual duration of the file.

MPEG profile and level: main profile, main level (requirement)

Resolution: 720 X 480 for NTSC

Frame rate: 29.97 frames/second for NTSC, 25 frames/second for PAL

Aspect ratio: 4:3

Chroma format: 4:2:0

Structure: Closed GOP (Group of Pictures) with one I-frame and four P-frames every 15 frames, using the pattern IBBPBBPBBPBBPBB

Pack size of 2048 bytes

Field Encoding Order: bottom field first (BFF)

Interlaced video (whereas deinterlaced video is typically used for web media)

Audio bit rate of 192 kbps, 224 kbps, 256 kbps, or 384 kbps

Audio sampling rate of 48 kHz or 44.1 kHz

Audio sampling rate of 1152

Audio mode: stereo

Audio codec: MPEG-1 Layer II, Stereo AC-3, or Linear PCM (LPCM).

Program stream files should terminate with an end code (00 00 01 b9).

Maximum program mux rate of 10.08 Mbps for standard-definition interlaced video. The mux rate is the sum of the video bitrate, the audio bitrate, and the overhead required by your encoder. You can use the formula  $M = V + A + O(V + A)$ .

Recommended bit rates for various types of video content are as follows:

- o 4 Mbps for good quality video with low motion
- o 6 Mbps for good quality with average motion
- o 8 Mbps for good quality with high motion and
- o 9 Mbps for high quality with high motion content.

File names should follow the following format: **Week(of the current season) Showname\_AirDate.mpg** Airdate must be in the form of 2 digit month, 2 digit day, 2 digit year; ie, **August 6, 2013** would be **080613**.

**Example:** 01 The Way of Live Show\_010115.mpg

**Show length should be 28:30:00 exactly, or 58:30:00 exactly, unless a different length is contracted for.**

Please note these are broadcast industry standard levels and while the audio levels may seem low, they **must** be adhered to.

**\*\*\*YOU MAY PROVIDE MPEG-2 Media files ON USB FLASH DRIVES, DVD-R, OR VIA FTP\*\*\***

[www.peopletv.org](http://www.peopletv.org)