Video Notes

FRAMES/SEC and RESOLUTION:

Full motion video =30 f/s (not intended for television)
NTSC(USA,Canada,Japan...) =29.97 f/s (intended for television - ALWAYS,ALWAYS USE!)
PAL(Europe,Asia,Australia...) =25 f/s
Standard film =24 f/s
Int.Broadband =15 f/s
Internet56k =12 f/s

HDTV resolution =1920x1080
DVD resolution =720/704/640×480
PAL resolution =720x576
DV resolution =720x480 <--(use with DVcamcorder)
Full-screen resolution =640x480
Avg. resolution PC Windows =320x240
Int.Broadband avg. resolution =320x240
Internet56 avg. resolution =160x120
Older PocketPC/PDA =240x180
Newer Mobile Devices =320x240
(note: When you use frame sizes smaller than full-screen video, choose an even fraction of the full-screen pixel size such as 320x240, 240x180, or 160x120)

ASPECT RATIO:
Popular aspect ratio for many movies is 1.85:1
The screen aspect ratio of a traditional television screen is 4:3
High definition televisions use an aspect ratio of 16:9

CAPTURE:
FIREWIRE IEEE 1394 CAPTURE SOFTWARE (MGI VideoWave 4 installed in my HP Pavilion n5270 Pentium3 laptop)
720x480 frame size. (DV)

RECOMMENDED CODECS/COMPRESSIONS

(from professors BCC):
Div X codec 4.12 (configured at 1-pass quality-based)

(from Wiki):
The most common modern standards as of 2008 are
MPEG-2 used for DVD, satellite television, and most digital video broadcasting/cable distribution systems.
MPEG-4 used for home video, internet, broadcast, and storage media. It offers improved quality relative to MPEG-2 and the first version of H.263.
WMV (Windows Media Video) Microsoft's family of video codec designs including WMV 7, WMV 8, and WMV 9. It can do anything from low resolution video for dial up internet users to HDTV.

(Windows XP SP2 itself only has a very limited number of video and audio codecs installed; other than Microsoft formats, Intel Indeo is the only available .avi Codec that is installed per default. All other codecs, such as DivX, Xvid or Theora, must be installed manually.)

MORE COMPRESSIONS:
CODECS: QUICKTIME
Cinepak - for CD-rom playback or Internet download or playback on older computers.
DV-Pal and DV-NTSC - for transferring video with DV Deck or FireWire or iLink.
none - a pristine interim storage format, usually too large to play back smoothly.

CODECS: VIDEO FOR WINDOWS

Cinepak - for CD-rom playback or Internet download or playback on older computers.
Intel Indeo 5.04 - for distribution over the Internet with computers using Pentium II or higher working with Intel Audio Software codec.
DV-Pal and DV-NTSC - for transferring video with DV Deck or FireWire or iLink.
none - a pristine interim storage format, usually too large to play back smoothly.

COLOR:
DV =24bits per pixel (for most projects, 24bit millions is appropriate)
TV/VHS =16bit RGB

AUDIO:
DV =32kHz 16bit stereo (not 44kHz)
TV/VHS/local computer =44kHz 16bit stereo
Internet Broadband =22kHz 16bit mono
Internet56 =8kHz 8bit mono

MORE SETTINGS:
Square Pixels (1.0) for most video
D1/DV NTSC (0.9) for DV

EXPORTING NOTES:

To DVD-Video Compatible Format:
File Type: MPEG-2 video encoding
(MPEG-2 is widely adopted for video broadcasting, filemaking, and DVD disks. MPEG-1 is adopted for filemaking and WWW access.)
Video Mode: NTSC(29.97 fps)
Aspect Ratio: 4:3
Quality: Super Long Play

(I exported for my PocketPC
using Windows Media Player Mobile
File Type: Windows Media .wmv)

--notes by Patrick Saccoccia - www.PSProduction.com