



COMMON DIGITAL VIDEO FORMATS SPECIFICATION GUIDE

- ACQUISITION
- INTERMEDIATE
- DISTRIBUTION / DELIVERABLE



COMPILED BY ZAK RAY
VERSION 1.5

	ARRIRAW ●	AVCHD (AVCCAM) ●●	AVC-INTRA ●	BETACAM SX ●●
RESOLUTION	2880x1620 2880x2160	1280x720 1440x1080 1920x1080	960x720 1280x720 1920x1080	720x486 (NTSC) 720x576 (PAL)
TARGET BIT RATE (Mbps)	1344 2112	14 18, 24	50 100	18
FRAME RATE (frames/second)	25p, 24p, 23.98p 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.98p	59.94p, 50p, 29.97p, 29.97i, 25p, 23.98p 59.94p, 50p, 29.97p, 29.97i, 25p, 25i, 23.98p 59.94p, 50p, 50i, 29.97p, 29.97i, 25p, 25i, 23.98p	59.94p, 50p, 29.97p, 23.98p 29.97p, 29.97i, 25p, 23.98p	29.97i 25i
PIXEL ASPECT RATIO	1.0	1.0 1.33 1.0	1.0	.91 (4:3), 1.21 (16:9) 1.09 (4:3), 1.46 (16:9)
FIELD ORDER	Upper (Odd)	Upper (Odd)	Upper (Odd)	Lower (Even) Upper (Odd)
BIT DEPTH (bits)	12	8	10	8
CHROMA SAMPLING	Raw Bayer	4:2:0	4:2:0	4:2:2
ALPHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLOR SPACE	RGB	YCbCr	YCbCr	YCbCr
AUDIO CHANNELS	None	6 w/ AC3, 8 @ 12-16 bit	6 w/ AC3, 8 @ 12-24 bit	4 @ 16 bit
FILE SIZE ESTIMATION (GB/hr)	1080	6.3 8.1 (18 Mbps), 10.8 (24 Mbps)	22.5 45	8.1
MPEG BASE	None	MPEG4	MPEG4	MPEG2
COMPRESSION	Intra-frame	Inter-frame	Intra-frame	Inter-frame
ALGORITHM	Uncompressed	DCT	DCT	DCT
MEDIA	● Arri T-Link Certified Recorder	● SSD, HDD, SDHC, DVD ● Blu-ray Disc	● P2 Card (Flash)	● ● 1/2" Tape
	CANON XF ●	CINEFORM RAW ●●	DALSA RAW ●	DIGITAL BETACAM ●●
RESOLUTION	1280x720 1440x1080 1920x1080	2048x1152	4096x2048	720x486 (NTSC) 720x576 (PAL)
TARGET BIT RATE (Mbps)	35, 50 25 35, 50	100 - 140	3200	90
FRAME RATE (frames/second)	60p, 50p, 29.97i, 29.97p, 25i, 25p, 23.98p 29.97i, 29.97p, 25i, 25p, 23.98p 60p, 50p, 29.97i, 29.97p, 25i, 25p, 23.98p	30p, 29.97p, 25p, 24p, 23.98p, 21p, 18p, 16p, 12p	24p	29.97i 25i
PIXEL ASPECT RATIO	1.0	1.0	1.0	.91 (4:3), 1.21 (16:9) 1.09 (4:3), 1.46 (16:9)
FIELD ORDER	Upper (Odd)	Upper (Odd)	None	Lower (Even) Upper (Odd)
BIT DEPTH (bits)	8	10	16	10
CHROMA SAMPLING	4:2:0, 4:2:2 (50 mbps) 4:2:0 4:2:0, 4:2:2 (50 mbps)	Raw Bayer	Raw Bayer	4:2:2
ALPHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLOR SPACE	YCbCr	RGB	RGB	YCbCr
AUDIO CHANNELS	2 @ 16 bit	2 @ 16 bit	None	4 @ 16-20 bit
FILE SIZE ESTIMATION (GB/hr)	24.6	45 - 63	1440	40.5
MPEG BASE	MPEG2	None	None	None
COMPRESSION	Inter-frame	Intra-frame	Intra-frame	Intra-frame
ALGORITHM	DCT	Wavelet	Uncompressed	DCT
MEDIA	● Compact Flash	● SiliconDVR (HDD) ● MOV/AVI File	● Codex Digital (HDD)	● ● 1/2" Tape

	DV/DVCPRO (D-7) ●		DVCAM ●		DVCPRO50 ●		DVCPRO HD (D-12) ●●		
RESOLUTION	720x480 (NTSC)	720x576 (PAL)	720x480 (NTSC)	720x576 (PAL)	720x480 (NTSC)	720x576 (PAL)	960x720	1280x1080	1440x1080
TARGET BIT RATE (Mbps)	25		25		50		50	100	
FRAME RATE (frames/second)	29.97i	25i	29.97i	25i	29.97i	25i	59.94p, 50p, 29.97p, 25p, 23.98p	29.97i, 29.97p, 23.98p	25p, 25i
PIXEL ASPECT RATIO	.91 (4:3), 1.21 (16:9)		.91 (4:3), 1.21 (16:9)		.91 (4:3), 1.21 (16:9)		1.33	1.5	1.33
FIELD ORDER	Lower (Even)		Lower (Even)	Upper (Odd)	Lower (Even)	Upper (Odd)	Upper (Odd)		
BIT DEPTH (bits)	8		8		8		8		
CHROMA SAMPLING	4:1:1	4:2:0 (DV), 4:1:1 (DVCPRO)	4:1:1	4:2:0	4:2:2		4:2:2		
ALPHA	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		
COLOR SPACE	YCbCr		YCbCr		YCbCr		YCbCr		
AUDIO CHANNELS	2 @ 16 bit	4 @ 12 bit	2 @ 16 bit	2 @ 16 bit, 4 @ 12 bit	4 @ 16 bit		8 @ 16 bit		
FILE SIZE ESTIMATION (GB/hr)	11.2 11.2		11.2		22.5		45		
MPEG BASE	None		None		None		None		
COMPRESSION	Intra-frame		Intra-frame		Intra-frame		Intra-frame		
ALGORITHM	DCT		DCT		DCT		DCT		
MEDIA	● DV Tape, MiniDV Tape, HDV Tape		● DV Tape, MiniDV Tape, HDV Tape		● DVCPRO Tape		● DVCPRO Tape, P2 Card ● DVCPRO Tape		

	GFCAM ●		HDCAM (D-11) ●●		HDCAM SR ●●●		HDV ●	
RESOLUTION	1280x720	1920x1080	1440x1080		1280x720	1920x1080	1280x720	1440x1080
TARGET BIT RATE (Mbps)	50, 100		144		220, 440, 880		18	25
FRAME RATE (frames/second)	29.97p, 29.97i, 25p, 25i, 23.98p		29.97i, 25p, 25i, 23.98p		59.94p	59.94p, 29.97p, 29.97i, 25p, 25i, 24p, 23.98p	59.94p, 50p, 29.97p, 50p, 25p, 23.98p	29.97i, 29.97p, 25p, 25i, 23.98p
PIXEL ASPECT RATIO	1.0		1.33		1.0		1.0	1.33
FIELD ORDER	Upper (Odd)		Upper (Odd)		Upper (Odd)		Upper (Odd)	
BIT DEPTH (bits)	8		8		10		8	
CHROMA SAMPLING	4:2:2		3:1:1		4:2:2, 4:4:4		4:2:0	
ALPHA	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
COLOR SPACE	YCbCr		YCbCr		YCbCr, RGB		YCbCr	
AUDIO CHANNELS	4 @ 16 bit		4 @ 20 bit		12 @ 24 bit		4 @ 16 bit	
FILE SIZE ESTIMATION (GB/hr)	22.5 (50Mbps), 45 (100 Mbps)		64.8		99 (220), 198 (440 Mbps), 396 (880 Mbps)		8.5	11.2
MPEG BASE	MPEG2		MPEG4		MPEG4		MPEG2	
COMPRESSION	Inter-frame, Intra-frame		Intra-frame		Intra-frame		Inter-frame	
ALGORITHM	DCT		DCT		DCT		DCT	
MEDIA	● GfPAK (Flash)		● 1/2" Tape		● 1/2" Tape ● SR Memory Card (Flash)		● HDV Tape, DV Tape, MiniDV Tape, SxS Card (Flash)	

IFRAME (H.264 IMPLEMENTATION) ●

RESOLUTION	960x540
TARGET BIT RATE (Mbps)	24
FRAME RATE (frames/second)	29.97p
PIXEL ASPECT RATIO	1.0
FIELD ORDER	Upper (Odd)
BIT DEPTH (bits)	8
CHROMA SAMPLING	4:2:0
ALPHA	<input type="checkbox"/>
COLOR SPACE	YCbCr
AUDIO CHANNELS	2 @ 16 bit
FILE SIZE ESTIMATION (GB/hr)	11.3
MPEG BASE	MPEG4
COMPRESSION	Inter-frame
ALGORITHM	DCT
MEDIA	● SDHC

MPEG IMX (D-10) ● ●

720x486 (NTSC)	720x576 (PAL)
30, 40, 50	
29.97i	25i
.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)
Lower (Even)	Upper (Odd)
8	
4:2:2	
YCbCr	
4 @ 24 bit, 8 @ 16 bit	
13.5 (30 Mbps), 18 (40 Mbps), 22.5 (50 Mbps)	
MPEG2	
Intra-frame	
DCT	
● ● 1/2" Tape	

PANAVISION SSR ●

1920x1080
Up to 3000
24p
1.0
None
10
4:2:2, 4:4:4
<input type="checkbox"/>
YCbCr, RGB
2 @ 16 bit
Up to 1350
None
Intra-frame
Lossless
● Panavision SSR-1 (SSD)

REDCODE RAW ●

2048x1024/1152	3072x1536/1728	4096x2048/2304
224, 288		
1p - 120p	1p - 60p	1p - 30p
1.0		
None		
12		
Raw Bayer		
<input type="checkbox"/>		
RGB		
4 @ 24 bit		
100.8 (224 Mbps), 102.6 (288 Mbps)		
None		
Intra-frame		
Wavelet		
● RED-RAM (SSD), RED-DRIVE (HDD), REDFLASH (CF)		

XDCAM HD/EX ●

RESOLUTION	1280x720	1440x1080	1920x1080
TARGET BIT RATE (Mbps)	18, 25, 35		
FRAME RATE (frames/second)	29.97p, 29.97i, 25p, 25i, 23.98p		
PIXEL ASPECT RATIO	1.0	1.33	1.0
FIELD ORDER	Upper (Odd)		
BIT DEPTH (bits)	8		
CHROMA SAMPLING	4:2:0		
ALPHA	<input type="checkbox"/>		
COLOR SPACE	YCbCr		
AUDIO CHANNELS	2-4 @ 16 bit		
FILE SIZE ESTIMATION (GB/hr)	8.1 (18 Mbps), 11.2 (25 Mbps), 15.7 (35 Mbps)		
MPEG BASE	MPEG2		
COMPRESSION	Inter-frame		
ALGORITHM	DCT		
MEDIA	● SxS Card (Flash), Professional Disc (Optical), SDHC		

XDCAM HD422 ●

1280x720	1920x1080
50	
59.94p, 50p, 23.98p	29.97p, 29.97i, 25p, 25i, 23.98p
1.0	
Upper (Odd)	
8	
4:2:2	
<input type="checkbox"/>	
YCbCr	
4-8 @ 24 bit	
22.5	
MPEG2	
Inter-frame	
DCT	
● Professional Disc (Optical)	

ANIMATION ●

Up to 4K
None
Up to 60p
Undefined
Undefined
1, 2, 4, 8, 16, 24, 32
4:4:4:4
<input checked="" type="checkbox"/>
RGB
Undefined
66
None
Intra-frame
Lossless (RLE)
● MOV File

APPLE INTERMEDIATE CODEC ●

Up to 1920x1080
20
Up to 60p
Undefined
Undefined
8
4:2:0
<input type="checkbox"/>
YCbCr
Undefined
23.3
None
Intra-frame
DCT
● MOV File

	APPLE "NONE" ●	APPLE PRORES ●●	AVID 1:1 ●	AVID DNXHD (VC-3) ●●
RESOLUTION	Up to 4K	Up to 4K	720x486 (NTSC) 720x576 (PAL) 1280x720 1920x1080	Up to 1920x1080
TARGET BIT RATE (Mbps)	None	45 (Proxy), 100 (LT), 145, 220 (HQ), 330 (4444)	167 442 996	36 (1080p24), 145, 220
FRAME RATE (frames/second)	Up to 60p	Up to 60p	29.97i 25i Up to 60p	Up to 60p
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	8	10, 12 (4444, 16 for alpha)	8, 10	8, 10
CHROMA SAMPLING	4:4:4:4	4:2:2, 4:4:4:4	4:2:2	4:2:2:4
ALPHA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COLOR SPACE	RGB	YCbCr	YCbCr	YCbCr
AUDIO CHANNELS	Undefined	Undefined	Undefined	Undefined
FILE SIZE ESTIMATION (GB/hr)	108	20.2 (Proxy), 45 (LT), 66, 99 (HQ), 148.2	75	16.2 (36 Mbps), 66 (145 Mbps), 99 (220 Mbps)
MPEG BASE	None	None	None	None
COMPRESSION	Intra-frame	Intra-frame	Intra-frame	Intra-frame
ALGORITHM	Uncompressed	DCT	Uncompressed	DCT
MEDIA	● MOV File	● MOV File ● SxS Card (Flash)	● MXF File, MOV file	● MXF File, MOV file ● GFPak (Flash)

	AVID MERIDIEN COMPRESSED ●	AVID MERIDIEN UNCOMPRESSED ●	AVID PACKED ●	CINEFORM ●
RESOLUTION	720x486 (NTSC) 720x576 (PAL)	720x486 (NTSC) 720x576 (PAL)	720x486 (NTSC) 720x576 (PAL) 1280x720 1920x1080	Up to 4K
TARGET BIT RATE (Mbps)	83	167	209 442 996	None
FRAME RATE (frames/second)	29.97i 25i	29.97i 25i	29.97i 25i Up to 60p	Up to 60p
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	8	8	10	8, 10, 12
CHROMA SAMPLING	4:2:0:4	4:2:2:4	4:2:2	4:2:2, 4:4:4, RAW
ALPHA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLOR SPACE	YCbCr	YCbCr	YCbCr	YCbCr, RGB
AUDIO CHANNELS	Undefined	Undefined	Undefined	Undefined
FILE SIZE ESTIMATION (GB/hr)	37.3	75	93.6	60
MPEG BASE	None	None	None	None
COMPRESSION	Intra-frame	Intra-frame	Intra-frame	Intra-frame
ALGORITHM	DCT	Uncompressed	Uncompressed	Wavelet
MEDIA	● MXF file, MOV file	● MXF file, MOV file	● MXF file, MOV file	● MOY/AVI File

	D-1 ●		D-2 ●		D-3 ●		D-5 ●●	
RESOLUTION	720x486 (NTSC)	720x576 (PAL)	720x486 (NTSC)	720x576 (PAL)	720x486 (NTSC)	720x576 (PAL)	720x486 (NTSC)	720x576 (PAL)
TARGET BIT RATE (Mbps)	172		94		143		250	
FRAME RATE (frames/second)	29.97i	25i	29.97i	25i	29.97i	25i	29.97i	25i
PIXEL ASPECT RATIO	.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)	.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)	.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)	.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)
FIELD ORDER	Lower (Even)	Upper (Odd)	Lower (Even)	Upper (Odd)	Lower (Even)	Upper (Odd)	Lower (Even)	Upper (Odd)
BIT DEPTH (bits)	8		8		8		10	
CHROMA SAMPLING	4:2:2		4:0:0 (Composite)		4:0:0 (Composite)		4:2:2	
ALPHA	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
COLOR SPACE	YCbCr		YCbCr		YCbCr		YCbCr	
AUDIO CHANNELS	4 @ 16-20 bit		4 @ 16-20 bit		4 @ 16-20 bit		4 @ 20 bit, 8 @ 24 bit	
FILE SIZE ESTIMATION (GB/hr)	77.4		42.3		64.3		112.5	
MPEG BASE	None		None		None		None	
COMPRESSION	Intra-frame		Intra-frame		Intra-frame		Intra-frame	
ALGORITHM	Uncompressed		Uncompressed		Lossless		Uncompressed	
MEDIA	● 3/4" Tape		● 3/4" Tape		● 1/2" Tape		● ● 1/2" Tape	

	D-5 HD ●●		D-6 ●	D-9 (DIGITAL S) ●●		D-9 HD ●●	
RESOLUTION	1280x720	1920x1080	1920x1080	720x486 (NTSC)	720x576 (PAL)	1280x720	1920x1080
TARGET BIT RATE (Mbps)	235		1200	50		100	
FRAME RATE (frames/second)	29.97i, 25i, 24p, 23.98p	29.97p, 29.97i	30i, 29.97i, 50i, 25p, 24p, 23.98p	29.97i	25i	60p	60i, 23.98p
PIXEL ASPECT RATIO	1.0		1.0	.91 (4:3), 1.21 (16:9)	1.09 (4:3), 1.46 (16:9)	1.0	
FIELD ORDER	Upper (Odd)		Upper (Odd)	Lower (Even)	Upper (Odd)	Upper (Odd)	
BIT DEPTH (bits)	8, 10		10	8		8	
CHROMA SAMPLING	4:2:2		4:2:2	4:2:2		4:2:2	
ALPHA	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
COLOR SPACE	YCbCr		YCbCr	YCbCr		YCbCr	
AUDIO CHANNELS	4 @ 20 bit, 8 @ 24 bit		4 @ 20 bit, 8 @ 24 bit	2 @ 16 bit		8 @ 16 bit	
FILE SIZE ESTIMATION (GB/hr)	105.7		540	22.5		45	
MPEG BASE	None		None	None		None	
COMPRESSION	Intra-frame		Intra-frame	Intra-frame		Intra-frame	
ALGORITHM	DCT		Uncompressed	DCT		DCT	
MEDIA	● ● 1/2" Tape		● 3/4" Tape	● ● 1/2" Tape		● ● 1/2" Tape	

	DIRAC (VC-2) ●●	DPX IMAGE SEQUENCE ●	JPEG IMAGE SEQUENCE ●	JPEG2000 IMAGE SEQUENCE ●●
RESOLUTION	Up to 1920x1080	Undefined	Undefined	Undefined
TARGET BIT RATE (Mbps)	None	None	None	None
FRAME RATE (frames/second)	Undefined	Undefined	Undefined	Undefined
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	8, 10, 12	1, 8, 10, 12, 16, 32, 64	8	8, 10, 12, 16
CHROMA SAMPLING	4:2:0, 4:2:2, 4:4:4	4:4:4:4	4:2:2	4:2:2, 4:4:4:4
ALPHA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COLOR SPACE	YCbCr, RGB	RGB	YCbCr	YCbCr, RGB
AUDIO CHANNELS	None	None	None	None
FILE SIZE ESTIMATION (GB/hr)	22.3 (Main Profile)	1260	56.9	55.1
MPEG BASE	None	None	None	None
COMPRESSION	Inter-frame, Intra-frame	Intra-frame	Intra-frame	Intra-frame
ALGORITHM	Wavelet	Uncompressed	DCT	Wavelet
MEDIA	●● Multiple Containers	● DPX File	● JPG File	●● JP2 File

	OPENEXR ●	PHOTO JPEG IMAGE SEQUENCE ●	PNG IMAGE SEQUENCE ●	TIFF IMAGE SEQUENCE ●
RESOLUTION	Undefined	Undefined	Undefined	Undefined
TARGET BIT RATE (Mbps)	None	None	None	None
FRAME RATE (frames/second)	Undefined	Undefined	Undefined	Undefined
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	16, 32	8	1, 2, 4, 8, 16	1, 2, 4, 8, 16, 24, 32, 48, 64
CHROMA SAMPLING	4:4:4:4	4:2:2, 4:4:4 (above 75% quality)	4:4:4:4	4:4:4:4
ALPHA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COLOR SPACE	YCbCr, RGB	YCbCr, RGB	RGB	YCbCr, RGB
AUDIO CHANNELS	None	None	None	None
FILE SIZE ESTIMATION (GB/hr)	1034	90	16	648
MPEG BASE	None	None	None	None
COMPRESSION	Intra-frame	Intra-frame	Intra-frame	Intra-frame
ALGORITHM	PIZ, ZIP, RLE, PXR24, B44, B44A	DCT	Lossless	Lossless, others
MEDIA	● EXR File	● JPG File	● PNG File	● TIFF File

	DIVX ●	H.264 (MPEG 4 PT. 10) ●●	MPEG1 ●	MPEG2 ●
RESOLUTION	Up to 1920x1080	Up to 4K	Up to 4K	Up to 1920x1080
TARGET BIT RATE (Mbps)	Up to 20	Up to 960	Up to 100	Up to 300
FRAME RATE (frames/second)	Up to 120p	Up to 120p	Up to 60p	Up to 60p
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	8	8, 10, 12	8	8, 10
CHROMA SAMPLING	4:2:0, 4:2:2	4:2:0, 4:2:2, 4:4:4	4:2:0	4:2:0, 4:2:2, 4:4:4
ALPHA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLOR SPACE	YCbCr	YCbCr	YCbCr	YCbCr
AUDIO CHANNELS	Undefined	2 @ 16 bit	Undefined	Undefined
FILE SIZE ESTIMATION (GB/hr)	1.9	9	.3	3.9
MPEG BASE	None	MPEG4	MPEG1	MPEG2
COMPRESSION	Inter-frame	Inter-frame, Intra-frame	Inter-frame, Intra-frame	Inter-frame, Intra-frame
ALGORITHM	DCT	DCT, Lossless	DCT	DCT
MEDIA	● Web	● Compact Flash ● Web, Portable Devices, HDTV, Blu-ray Disc	● Web, DTV	● Web, DVD, HDTV

	VC-1 ●	VP6 ●	WEBM (VP8) ●	X264 (H.264 IMPLEMENTATION) ●
RESOLUTION	Up to 2048 × 1536	Up to 1920x1080	Up to 16384x16384	Up to 2K
TARGET BIT RATE (Mbps)	Up to 135	Up to 10	Undefined	Up to 960
FRAME RATE (frames/second)	Up to 60p	Up to 120p	Undefined	Up to 120p
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined	Undefined
FIELD ORDER	Undefined	Undefined	Undefined	Undefined
BIT DEPTH (bits)	8	8	8	8
CHROMA SAMPLING	4:2:0	4:2:0, 4:2:2	4:2:0	4:2:0
ALPHA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLOR SPACE	YCbCr	YCbCr	YCbCr	YCbCr
AUDIO CHANNELS	Undefined	Undefined	Undefined	Undefined
FILE SIZE ESTIMATION (GB/hr)	Undefined	.7	.7	3.3
MPEG BASE	None	None	None	None
COMPRESSION	Inter-frame, Intra-frame	Inter-frame, Intra-frame	Inter-frame, Intra-frame	Inter-frame, Intra-frame
ALGORITHM	DCT	DCT	DCT	DCT, Lossless
MEDIA	● Web, Blu-ray Disc	● Web, Portable Devices	● Web, Portable Devices	● Web

	XVID ●	WINDOWS MEDIA VIDEO 9 ●	UNCOMPRESSED ●			
RESOLUTION	Up to 1920x1080	Up to 1920x1080	720x486 (NTSC)	720x576 (PAL)	1280x720	1920x1080
TARGET BIT RATE (Mbps)	Up to 10	Up to 12	315 (29.97fps, 10 bit, 4:4:4)	311 (25fps, 10 bit, 4:4:4)	829 (29.97fps, 10 bit, 4:4:4)	1860 (29.97fps, 10 bit, 4:4:4)
FRAME RATE (frames/second)	Up to 120p	Up to 60p	Undefined			
PIXEL ASPECT RATIO	Undefined	Undefined	Undefined			
FIELD ORDER	Undefined	Undefined	Undefined			
BIT DEPTH (bits)	8	8	8, 10, 12			
CHROMA SAMPLING	4:2:0, 4:2:2	4:2:0	4:2:2, 4:4:4			
ALPHA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
COLOR SPACE	YCbCr	YCbCr	YCbCr, RGB			
AUDIO CHANNELS	Undefined	Undefined	Undefined			
FILE SIZE ESTIMATION (GB/hr)	3.6	3.6	141.6 (29.97fps, 10 bit, 4:4:4)	139.8 (25fps, 10 bit, 4:4:4)	372.6 (29.97fps, 10 bit, 4:4:4)	838.8 (29.97fps, 10 bit, 4:4:4)
MPEG BASE COMPRESSION	None	None	None			
ALGORITHM	Inter-frame	Inter-frame, Intra-frame	Uncompressed			
MEDIA	DCT	DCT	Uncompressed			
	● Web	● Web, Portable Devices	Undefined			

Where multiple frame rates are present, file size is calculated with 29.97. Where resolution is undefined, 1920x1080 is used. Where multiple bit rates are present, the highest quality option is used.

As noted, frame rate is defined by frames per second, not fields; 59.94i (commonly referred to as 60i), for example, is listed as 29.97i.

Where both progressive and interlaced frame rates are present, field order applies only to the interlaced rate(s).

Variable frame rates achieved by over- and under-cranking are not listed, as they vary by camera and are not native to the codec.

"23.98" denotes 23.976. All other frame rates are exact; 30 is never used in place of 29.97, or 24 in place of 23.98.

Resolutions in "Uncompressed" are for reference-- uncompressed video does not carry natively defined resolutions.

Additional help in making this guide from Justin Kwan.

The information in this guide was compiled from various sources, and despite my best efforts to fact-check, I can't guarantee it's all accurate. Contact me if you spot any errors or have any suggestions at zak@zak-ray.com.

The latest version of this, and other resources, can be found here: <http://zak-ray.com/resources>