



RECORDING TIME for MJPEG & MPEG-2 in CCIR601 (576Lx720pixels)

IBC 02 Edition

V1-MJPEG RECORDING TIME FOR PAL 25I/S & 2X AUDIO CH							
Quality equiv #	Comp Ratio	4.7 GB DVDRam	9.4 GB DVDRam	18 GB LP 1"	36 GB LP 1"	73 GB LP 1"	148 GB LP 1"
DigiBeta	2:1	7:40	15:20	27:40	0:55:20	1:50:40	03:41:20
	2.5:1	10:35	21:10	33:40	1:07:20	2:14:40	04:29:20
	3:1	12:20	24:40	44:44	1:29:28	2:58:56	05:57:52
DVCPro50	3.5:1	13:45	27:30	50:50	1:41:40	3:23:20	06:46:40
	4:1	15:40	31:20	56:56	1:53:52	3:47:44	07:35:28
	5:1	18:45	37:30	1:07:18	2:14:36	4:29:12	08:58:24
DVCPro25	6:1	21:10	42:20	1:17:56	2:35:52	5:11:44	10:23:28
Beta SP	7:1	23:50	47:40	1:26:28	2:52:56	5:45:52	11:31:44
	8:1	27:20	54:40	1:38:44	3:17:28	6:34:56	13:09:52
	9:1	31:20	1:02:40	1:53:56	3:47:52	7:35:44	15:11:28
	10:1	34:00	1:08:00	2:03:26	4:06:52	8:13:44	16:27:28
	12:1	40:10	1:20:20	2:28:06	4:56:12	9:52:24	19:44:48
S-VHS	14:1	45:30	1:31:00	2:44:34	5:29:08	10:58:16	21:56:32
	16:1	50:45	1:41:30	3:05:08	6:10:16	12:20:32	24:41:04
	20:1	59:20	1:58:40	3:31:36	7:03:12	14:06:24	28:12:48
	24:1	67:20	2:15:20	4:06:52	8:13:44	16:27:28	32:54:56
VHS	34:1	1:21:30	2:43:00	4:56:14	9:52:28	19:44:56	39:29:52

4.7 GB = one side of DVD-RAM & 9.4 GB = two sides - DVD-RAM is 14:1 mini
 Barracuda 7.200 rpm = 3:1 mini, Cheetah 10.000 rpm = 2:1 & 15.000 rpm = 2:1 in dual access V1x2
 Max number of drives possible : 15x (SCSI chain) – consult Doremi for such configuration
 Each pair of additional audio tracks require # 700MB per hour of recording space

V1-MPEG2 RECORDING TIME FOR PAL 25I/S & 2X AUDIO CH							
Quality	Comp Ratio	4.7 GB DVDRam	9.4 GB DVDRam	18 GB LP 1"	36 GB LP 1"	73 GB LP 1"	148 GB LP 1"
>DVCPro50	50 Mbit/s	00:10:30	00:21:00	00:40:48	01:21:36	02:43:12	05:26:24
	45 Mbit/s	00:11:40	00:23:20	00:45:13	01:30:26	03:00:52	06:01:44
	40 Mbit/s	00:13:15	00:26:30	00:50:41	01:41:22	03:22:44	06:45:28
	35 Mbit/s	00:14:45	00:29:50	00:57:40	01:55:20	03:50:40	07:41:20
	30 Mbit/s	00:17:25	00:34:50	01:06:53	02:13:46	04:27:32	08:55:04
	25 Mbit/s	00:20:30	00:41:00	01:19:35	02:39:10	05:18:20	10:34:40
DVCPro25	20 Mbit/s	00:25:30	00:51:00	01:38:15	03:16:30	06:33:00	13:06:00
On-Air	15 Mbit/s	00:34:15	01:08:30	02:08:22	04:16:44	08:33:28	17:06:56
	12 Mbit/s	00:40:50	01:21:45	02:37:05	05:14:10	10:28:20	20:56:40
	10 Mbit/s	00:47:30	01:35:50	03:03:40	06:07:20	12:14:40	24:29:20
DVD	8 Mbit/s	00:57:50	01:55:40	03:43:10	07:26:20	14:52:40	29:45:20
S-VHS	5 Mbit/s	01:24:50	02:49:40	05:27:06	10:54:12	21:48:24	43:36:48

V1-MP2 is 4:2:2 IB mode recording : it provides # 20% smaller storage size for same visual quality compare to I only mode codecs like DVCAM, DVCPRO, IMX

4.7 GB = one side of DVD-RAM & 9.4 GB = two sides - DVD-RAM is 8-10Mb/s maxi
 Cheetah 10.000 rpm = up to 50Mb/s, Cheetah 15.000 rpm up to 50Mb/s in simultaneous record + play
 Max number of drives possible : 15x (SCSI chain) – consult Doremi for such configuration
 Each pair of additional audio tracks require # 700MB per hour of recording space



RECORDING TIME for UNCOMPRESSED SD & HD

V1U Uncompressed Recording Time for PAL 25I/s & 2x Audio Ch					
Model Number	Drive Size	Drive Qty	8 Bit	10 Bit	
V1-U-29	18 GB-10K	2	0:29:03		0:23:21
V1-U-43	18 GB-10K	3	0:43:05		0:35:00
V1-U-58	36GB-10K	2	0:58:07		0:46:43
V1-U-78	36GB-10K	3	1:18:10		1:09:50
V1-U-116	73 GB-10K	2	1:56:14		1:33:25
V1-U-174	73 GB-10K	3	2:54:00		2:20:00
V1-U-236	148GB-10K	2	3:56:00		3:09:00
V1-U-350	148GB-10K	3	5:50:00		4:40:00

V1U requires at least 2xCheetah 10K 6th gen. to support 8/10bits & insert
 V1U with 1xCheetah 15K 2nd gen. supports 8/10bits operation without insert
 (Note that 1x drive operation allow clips definition saving on drive)
 Max number of drives possible : 15x (SCSI chain) – consult Doremi for such configuration
 Each pair of additional audio tracks require # 700MB per hour of recording space

V1-UHD Uncompressed HD Recording Time									
		V1-UHD-09	V1-UHD-18	V1-UHD-48	V1-UHD-98	V1-UHD-48E	V1-UHD-96E	V1-UHD-192E	V1-UHD-394E
		V1-UHD Internal Storage				V1-UHD + External Storage			
HD Size:		18 GB	36 GB	73 GB	148 GB	36 GB	73 GB	73 GB	148GB
HD Qu:		3x15K	3x15K	4x10K	4x10K	8x10K	8x10K	16x10K	16x10K
HD Format	Bit	removable	removable	fixed	fixed	removable	removable	removable	removable
1080i 50Hz	8	0:08:50	0:17:45	0:47:03	1:34:06	0:47:00	1:34:00	3:08:00	6:16:00
1080i 50Hz	10	0:07:00	0:14:05	0:37:40	1:15:19	0:37:30	1:15:00	2:30:00	5:00:00
1080i 60Hz	8	0:07:30	0:14:50	0:39:13	1:18:25	0:38:40	1:17:20	2:34:40	3:19:20
1080i 60Hz	10	N/A	N/A	0:31:22	N/A	0:31:00	1:02:00	2:04:00	4:08:00
1080p 24	8	0:09:15	0:18:30	0:49:01	1:38:02	0:49:30	1:39:00	3:18:00	6:36:00
1080p 24	10	0:07:30	0:14:50	0:39:13	1:18:26	0:38:45	1:17:30	2:35:00	5:10:00
1080p 25	8	0:08:50	0:17:45	0:47:04	1:34:07	0:47:00	1:34:00	3:08:00	6:16:00
1080p 25	10	0:07:00	0:14:06	0:37:40	1:15:19	0:37:30	1:15:00	2:30:00	5:00:00
1080p 30	8	0:07:30	0:14:45	0:39:13	1:18:25	0:39:00	1:18:00	2:36:00	5:12:00
1080p 30	10	N/A	N/A	0:31:23	N/A	0:31:20	1:02:40	2:05:20	4:10:40
720p 60	8	0:08:20	0:16:30	0:43:52	1:27:44	0:44:00	1:28:00	2:56:00	5:52:00
720p 60	10	0:06:45	0:13:25	0:35:20	1:10:39	0:36:00	1:12:00	2:24:00	4:48:00

V1-UHD with 3x 15K Cheetah supports normal record/playback without insert in all modes except 10 bit i60 or p30 that require more than 3 x 15K drives
 V1-UHD with dual bus 3x15K Cheetah each bus, supports all modes 8/10 bits including audio insert
 Each pair of additional audio tracks require # 700MB per hour of recording space