

JLIP

Command

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SOFTWARE DEVELOPMENT CENTER
ENGINEERING DEPT.
HOME AV NETWORK BUSINESS UNIT

JVC

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1.JLIP MACHINE CATEGORY CODE TABLE

A JLIP machine is an independent facility that supports JLIP commands. Each kind of JLIP machine has the code as the table below. This code indicates the general function of the JLIP machine, and is given by the command - Machine category request command(command #001003).

JLIP MACHINE CATEGORY TABLE 1 OF 2

Machine category code					Machine category abbreviation	Machine category name
D7	D4	D3	D0	HEX		
0000	0000	00h			TV	Television
0000	0001	01h			VTR	Video Tape Recorder
0000	0010	02h			SWB	SW.BOX
0000	0011	03h			VDP	Video Disk Player
0000	0100	04h			AMP	Audio Amp
0000	0101	05h			VTU	Video Tuner
0000	0110	06h				
0000	0111	07h			VCTR	Video Camera with VTR
0000	1000	08h				
0000	1001	09h			VTP	Video Tape Player
0000	1010	0Ah				
0000	1011	0Bh				
0000	1100	0Ch				
0000	1101	0Dh				
0000	1110	0Eh				
0000	1111	0Fh			CAM	Video Camera
0001	0000	10h			ATU	Audio Tuner
0001	0001	11h			AEF	Audio Effector
0001	0010	12h			ADP	Audio Disk Player (Phono,CD,MD)
0001	0011	13h				
0001	0100	14h			ATR	Audio Tape Recorder
0001	0101	15h				
0001	0110	16h			ADR	Audio Disk Recorder
0001	0111	17h				
0001	1000	18h				
0001	1001	19h				
0001	1010	1Ah				
0001	1011	1Bh				
0001	1100	1Ch			ATP	Audio Tape Player
0001	1101	1Dh				
0001	1110	1Eh				
0001	1111	1Fh				

JLIP MACHINE CATEGORY TABLE 2 OF 2

Machine category code					Machine category abbreviation	Machine category name
D7	D4	D3	D0	HEX		
0 0 1 0		0 0 0 0		20h	TXD	Teletext Decoder
0 0 1 0		0 0 0 1		21h	VEF	Video Effector
0 0 1 0		0 0 1 0		22h	VPR	Video Printer
0 0 1 0		0 0 1 1		23h	VDR	Video Disk Recorder
0 0 1 0		0 1 0 0		24h	VTEX	V.TEX Decoder
0 0 1 0		0 1 0 1		25h		
0 0 1 0		0 1 1 0		26h	BFAQ	Broadcast FAX
0 0 1 0		0 1 1 1		27h		
0 0 1 0		1 0 0 0		28h		
0 0 1 0		1 0 0 1		29h		
0 0 1 0		1 0 1 0		2Ah		
0 0 1 0		1 0 1 1		2Bh		
0 0 1 0		1 1 0 0		2Ch		
0 0 1 0		1 1 0 1		2Dh		
0 0 1 0		1 1 1 0		2Eh		
0 0 1 0		1 1 1 1		2Fh		
0 0 1 1		0 0 0 0		30h	PC	Computer
0 0 1 1		0 0 0 1		31h	TMR	Timer
0 0 1 1		0 0 1 0		32h	DDU	Data Disk Unit(CD-ROM,CD-I)
0 0 1 1		0 0 1 1		33h		
0 0 1 1		0 1 0 0		34h	AVC	AV Controller
0 0 1 1		0 1 0 1		35h		
0 0 1 1		0 1 1 0		36h	DAT	Digital Audio Tape Recorder
0 0 1 1		0 1 1 1		37h		
0 0 1 1		1 0 0 0		38h	VGU	Video Game Unit
0 0 1 1		1 0 0 1		39h		
0 0 1 1		1 0 1 0		3Ah	RCU	Remote Control Unit
0 0 1 1		1 0 1 1		3Bh	VIU	VCR Interface Unit
0 0 1 1		1 1 0 0		3Ch	VCU	Video Capture Unit
0 0 1 1		1 1 0 1		3Dh		
0 0 1 1		1 1 1 0		3Eh	DTU	Data Tape Unit
0 0 1 1		1 1 1 1		3Fh	OTH	OTHER

2.JLIP COMMAND SELECTOR TABLE

The functions of JLIP machine are divided some parts, and they are called sub-device that are defined as the table below. It is recognized what sub-devices are included of the JLIP machine by the return data of Machine category request command(command #001003).

Normally, it is defined two sub-device codes for the same functions in a JLIP machine. If only one same function in the JLIP machine, the smaller number of the code is capable.

JLIP COMMAND SELECTOR TABLE 1 OF 2

sub-device code					sub-device name	abbreviation
	extend table	command selector	sub-device number	HEX		
D7	D6	D5 D1	D0			
0	0	0 0 0 0 0	0,1	00h, 01h	Video Monitor	VMO
0	0	0 0 0 0 1	0,1	02h, 03h	Audio Amp	AMP
0	0	0 0 0 1 0	0,1	04h, 05h		
0	0	0 0 0 1 1	0,1	06h, 07h		
0	0	0 0 1 0 0	0,1	08h, 09h	Video Tape Recorder	VTR
0	0	0 0 1 0 1	0,1	0Ah, 0Bh	Video Tuner	VTU
0	0	0 0 1 1 0	0,1	0Ch, 0Dh	Video Disk Player	VDP
0	0	0 0 1 1 1	0,1	0Eh, 0Fh	Video Camera	CAM
0	0	0 1 0 0 0	0,1	10h, 11h	Video Tuner (SUB)	VTU
0	0	0 1 0 0 1	0,1	12h, 13h	Decoder	DCO
0	0	0 1 0 1 0	0,1	14h, 15h	Video Printer	VPR
0	0	0 1 0 1 1	0,1	16h, 17h	Video Capture Function	VCF
0	0	0 1 1 0 0	0,1	18h, 19h	Video Effector	VEF
0	0	0 1 1 0 1	0,1	1Ah, 1Bh	Video Disk Recorder	VDR
0	0	0 1 1 1 0	0,1	1Ch, 1Dh		
0	0	0 1 1 1 1	0,1	1Eh, 1Fh		
0	0	1 0 0 0 0	0,1	20h, 21h	Audio Tuner	ATU
0	0	1 0 0 0 1	0,1	22h, 23h	Cassette Tape Recorder	CCA
0	0	1 0 0 1 0	0,1	24h, 25h	Audio Disk Player	ADP
0	0	1 0 0 1 1	0,1	26h, 27h	Audio Disk Recorder	ADR
0	0	1 0 1 0 0	0,1	28h, 29h	Audio Effector	AEF
0	0	1 0 1 0 1	0,1	2Ah, 2Bh	Digital Audio Tape Recorder	DAT
0	0	1 0 1 1 0	0,1	2Ch, 2Dh		
0	0	1 0 1 1 1	0,1	2Eh, 2Fh		
0	0	1 1 0 0 0	0,1	30h, 31h	Computer	PC
0	0	1 1 0 0 1	0,1	32h, 33h	AV Controller	AVC
0	0	1 1 0 1 0	0,1	34h, 35h	Data Disk Unit(CD-ROM,CD-I)	DDU
0	0	1 1 0 1 1	0,1	36h, 37h	Remote Control Function	RCF
0	0	1 1 1 0 0	0,1	38h, 39h	Timer	TMR
0	0	1 1 1 0 1	0,1	3Ah, 3Bh	Input Selector	ISE
0	0	1 1 1 1 0	0,1	3Ch, 3Dh	Output Terminal Unit	OUT
0	0	1 1 1 1 1	0,1	3Eh	All Sub Device	ASD

JLIP COMMAND SELECTOR TABLE 2 OF 2

sub-device code					sub-device name	abbreviation
	extend table	command selector	sub-device number	HEX		
D7	D6	D5 D1	D0			
0	1	0 0 0 0 0	0,1	40h, 41h	Video Tape Recorder (ext)	ext-VTR
0	1	0 0 0 0 1	0,1	42h, 43h		
0	1	0 0 0 1 0	0,1	44h, 45h		
0	1	0 0 0 1 1	0,1	46h, 47h		
0	1	0 0 1 0 0	0,1	48h, 49h		
0	1	0 0 1 0 1	0,1	4Ah, 4Bh		
0	1	0 0 1 1 0	0,1	4Ch, 4Dh	Video Camera (ext)	ext-CAM
0	1	0 0 1 1 1	0,1	4Eh, 4Fh		
0	1	0 1 0 0 0	0,1	50h, 51h	Video Printer (ext)	ext-VPR
0	1	0 1 0 0 1	0,1	52h, 53h		
0	1	0 1 0 1 0	0,1	54h, 55h		
0	1	0 1 0 1 1	0,1	56h, 57h		
0	1	0 1 1 0 0	0,1	58h, 59h		
0	1	0 1 1 0 1	0,1	5Ah, 5Bh		
0	1	0 1 1 1 0	0,1	5Ch, 5Dh		
0	1	0 1 1 1 1	0,1	5Eh, 5Fh		
0	1	1 0 0 0 0	0,1	60h, 61h		
0	1	1 0 0 0 1	0,1	62h, 63h		
0	1	1 0 0 1 0	0,1	64h, 65h	VTR Interface Function	VIF
0	1	1 0 0 1 1	0,1	66h, 67h		
0	1	1 0 1 0 0	0,1	68h, 69h		
0	1	1 0 1 0 1	0,1	6Ah, 6Bh		
0	1	1 0 1 1 0	0,1	6Ch, 6Dh		
0	1	1 0 1 1 1	0,1	6Eh, 6Fh		
0	1	1 1 0 0 0	0,1	70h, 71h		
0	1	1 1 0 0 1	0,1	72h, 73h		
0	1	1 1 0 1 0	0,1	74h, 75h		
0	1	1 1 0 1 1	0,1	76h, 77h		
0	1	1 1 1 0 0	0,1	78h, 79h	(JLIP reserved) JLIP system control	(SRV) SYS
0	1	1 1 1 0 1	0,1	7Ah, 7Bh		
0	1	1 1 1 1 0	0,1	7Ch, 7Dh		
0	1	1 1 1 1 1	0,1	7Eh, 7Fh		

3.SUB-DEVICE COMMAND TABLE

Commands are defined by each sub-device as the table below. The command number is used for maintaining JLIP commands. The mandatory commands are necessarily supported in all JLIP machine, and the other commands are partially supported in each JLIP machine.

3.1.SYSTEM

SYSTEM (SYS) COMMAND TABLE

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	1 0	0 0 0 0 0	40h	Baud rate set		001001
0	1 0	0 0 0 0 1	41h	ID number set		001002
0	1 0	0 0 0 1 0	42h	Panel operation inhibit		001015
0	1 0	0 0 0 1 1	43h	Remote control disable		001004
0	1 0	0 0 1 0 0	44h	AV machine remote controller code control		001005
0	1 0	0 0 1 0 1	45h	Machine code request	M	001013
0	1 0	0 0 1 1 0	46h	Special command permit		001010
0	1 0	0 0 1 1 1	47h	Special command inhibit		001011
0	1 0	0 1 0 0 0	48h	Baud rate ability request	M	001009
0	1 0	0 1 0 0 1	49h	Machine category request	M	001003
0	1 0	0 1 0 1 0	4Ah			
0	1 0	0 1 0 1 1	4Bh	Remain data set		001012
0	1 0	0 1 1 0 0	4Ch	Machine name request	M	001006
0	1 0	0 1 1 0 1	4Dh	Remain data request		001007
0	1 0	0 1 1 1 0	4Eh	NOP	M	001008
0	1 0	0 1 1 1 1	4Fh	Receiving data invalidate mode set	M	001020
0	1 0	1 0 0 0 0	50h	Processing command task abort		001018
0	1 0	1 0 0 0 1	51h	Processing command task status request		001017
0	1 0	1 0 0 1 0	52h	Remain data set(data hold type)		001014
0	1 0	1 0 0 1 1	53h			
0	1 0	1 0 1 0 0	54h			
0	1 0	1 0 1 0 1	55h			
0	1 0	1 0 1 1 0	56h	Receiving data invalidate mode set inhibit		001021
0	1 0	1 0 1 1 1	57h			
0	1 0	1 1 0 0 0	58h			
0	1 0	1 1 0 0 1	59h			
0	1 0	1 1 0 1 0	5Ah			
0	1 0	1 1 0 1 1	5Bh			
0	1 0	1 1 1 0 0	5Ch			
0	1 0	1 1 1 0 1	5Dh			
0	1 0	1 1 1 1 0	5Eh			
0	1 0	1 1 1 1 1	5Fh			

3.2.ALL SUB-DEVICE

ALL SUBDEVICE (ASD) COMMAND TABLE

CODE					Command name	Mandatory Command	Command number
D7	D6D5	D4	D0	HEX			
0	10	00000		40h	Power control		002001
0	10	00001		41h			
0	10	00010		42h			
0	10	00011		43h			
0	10	00100		44h			
0	10	00101		45h			
0	10	00110		46h			
0	10	00111		47h			
0	10	01000		48h			
0	10	01001		49h			
0	10	01010		4Ah			
0	10	01011		4Bh			
0	10	01100		4Ch			
0	10	01101		4Dh			
0	10	01110		4Eh			
0	10	01111		4Fh			
0	10	10000		50h	ASD mode request	M	002000
0	10	10001		51h			
0	10	10010		52h			
0	10	10011		53h			
0	10	10100		54h			
0	10	10101		55h			
0	10	10110		56h			
0	10	10111		57h			
0	10	11000		58h	Source select (synchronous) execute		002002
0	10	11001		59h			
0	10	11010		5Ah			
0	10	11011		5Bh			
0	10	11100		5Ch			
0	10	11101		5Dh			
0	10	11110		5Eh			
0	10	11111		5Fh			

3.3.VIDEO TAPE RECORDER

VTR (VTR) COMMAND TABLE

CODE					Command name	Mandatory Command	Command number	
D7	D6D5	D4	D0	HEX				
0	10	00000		40h	Medium Record Play Wind		003004 003003 003002 003001	
0	10	00001		41h				
0	10	00010		42h				
0	10	00011		43h				
0	10	00100		44h				
0	10	00101		45h				
0	10	00110		46h				
0	10	00111		47h				
0	10	01000		48h				
0	10	01001		49h				
0	10	01010		4Ah				
0	10	01011		4Bh				
0	10	01100		4Ch				
0	10	01101		4Dh				
0	10	01110		4Eh				
0	10	01111		4Fh				
0	10	10000		50h	VTR mode request		003000	
0	10	10001		51h				
0	10	10010		52h				
0	10	10011		53h				
0	10	10100		54h				
0	10	10101		55h				
0	10	10110		56h				
0	10	10111		57h				
0	10	11000		58h				
0	10	11001		59h				
0	10	11010		5Ah				
0	10	11011		5Bh				
0	10	11100		5Ch				
0	10	11101		5Dh				
0	10	11110		5Eh				
0	10	11111		5Fh				
0	10	11000		58h	Source select data request		003005	
0	10	11001		59h	Source select (asynchronous)		003006	
0	10	11010		5Ah	iLINK source select data request iLINK source select (asynchronous)		003007 003008	
0	10	11011		5Bh				
0	10	11100		5Ch				
0	10	11101		5Dh				
0	10	11110		5Eh				
0	10	11111		5Fh				

3.4.VIDEO TAPE RECORDER EXTENDED

VTR EXTENDED (ext-VTR) COMMAND TABLE

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	10	00000	40h	Record mode select		004009
0	10	00001	41h	Record audio group select		004010
0	10	00010	42h	Record speed select		004008
0	10	00011	43h	Record Medium type select		004007
0	10	00100	44h	Tracking		004018
0	10	00101	45h	Index		004019
0	10	00110	46h	Frame advance		004002
0	10	00111	47h	Frame Record		004003
0	10	01000	48h	Playback audio group select		004011
0	10	01001	49h	Playback audio output mode select		004014
0	10	01010	4Ah	Audio sampling mode		004006
0	10	01011	4Bh			
0	10	01100	4Ch	Tape position counter select		004005
0	10	01101	4Dh	Tape position counter set		004004
0	10	01110	4Eh	Playback speed request		004017
0	10	01111	4Fh			
0	10	10000	50h	Remote pause control		004012
0	10	10001	51h	'Photo' scene search		004015
0	10	10010	52h	'Photo' scene search information request		004016
0	10	10011	53h	TBC		004020
0	10	10100	54h			
0	10	10101	55h			
0	10	10110	56h			
0	10	10111	57h			
0	10	11000	58h			
0	10	11001	59h			
0	10	11010	5Ah			
0	10	11011	5Bh			
0	10	11100	5Ch			
0	10	11101	5Dh			
0	10	11110	5Eh			
0	10	11111	5Fh			

3.5.VIDEO PRINTER

VIDEO PRINTER (VPR) COMMAND TABLE

CODE					Command name	Mandatory Command	Command number
D7	D6D5	D4	D0	HEX			
0	1 0	0 0 0 0 0		40h	Video memory		005002
0	1 0	0 0 0 0 1		41h			
0	1 0	0 0 0 1 0		42h			
0	1 0	0 0 0 1 1		43h			
0	1 0	0 0 1 0 0		44h	Print direction		005008
0	1 0	0 0 1 0 1		45h	Copy number set		005009
0	1 0	0 0 1 1 0		46h			
0	1 0	0 0 1 1 1		47h			
0	1 0	0 1 0 0 0		48h	Input multi-screen		005005
0	1 0	0 1 0 0 1		49h	Output multi-screen		005006
0	1 0	0 1 0 1 0		4Ah	Multi-screen position		005007
0	1 0	0 1 0 1 1		4Bh	Field mode select		005004
0	1 0	0 1 1 0 0		4Ch			
0	1 0	0 1 1 0 1		4Dh			
0	1 0	0 1 1 1 0		4Eh	VPR mode request		005000
0	1 0	0 1 1 1 1		4Fh			
0	1 0	1 0 0 0 0		50h			
0	1 0	1 0 0 0 1		51h			
0	1 0	1 0 0 1 0		52h			
0	1 0	1 0 0 1 1		53h			
0	1 0	1 0 1 0 0		54h			
0	1 0	1 0 1 0 1		55h			
0	1 0	1 0 1 1 0		56h			
0	1 0	1 0 1 1 1		57h			
0	1 0	1 1 0 0 0		58h			
0	1 0	1 1 0 0 1		59h			
0	1 0	1 1 0 1 0		5Ah			
0	1 0	1 1 0 1 1		5Bh			
0	1 0	1 1 1 0 0		5Ch			
0	1 0	1 1 1 0 1		5Dh			
0	1 0	1 1 1 1 0		5Eh			
0	1 0	1 1 1 1 1		5Fh			

3.6.VIDEO PRINTER EXTENDED

VIDEO PRINTER EXTENDED (ext-VPR) COMMAND TABLE

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	1 0	0 0 0 0 0	40h	Contrast adjust		006005
0	1 0	0 0 0 0 1	41h			
0	1 0	0 0 0 1 0	42h	Brightness adjust		006006
0	1 0	0 0 0 1 1	43h			
0	1 0	0 0 1 0 0	44h	Aperture		006008
0	1 0	0 0 1 0 1	45h			
0	1 0	0 0 1 1 0	46h	Strobe mode		006001
0	1 0	0 0 1 1 1	47h			
0	1 0	0 1 0 0 0	48h	Title mode		006002
0	1 0	0 1 0 0 1	49h			
0	1 0	0 1 0 1 0	4Ah	Title color (plane A)		006003
0	1 0	0 1 0 1 1	4Bh			
0	1 0	0 1 1 0 0	4Ch	Title reverse mode(plane A)		006004
0	1 0	0 1 1 0 1	4Dh			
0	1 0	0 1 1 1 0	4Eh	Title mix		006009
0	1 0	0 1 1 1 1	4Fh			
0	1 0	1 0 0 0 0	50h	Title pattern select (plane A)		006010
0	1 0	1 0 0 0 1	51h			
0	1 0	1 0 0 1 0	52h	Title memory (plane A)		006012
0	1 0	1 0 0 1 1	53h			
0	1 0	1 0 1 0 0	54h	Title pattern select (plane B)		006011
0	1 0	1 0 1 0 1	55h			
0	1 0	1 0 1 1 0	56h	Title memory (plane B)		006013
0	1 0	1 0 1 1 1	57h			
0	1 0	1 1 0 0 0	58h	Title color (plane B)		006014
0	1 0	1 1 0 0 1	59h			
0	1 0	1 1 0 1 0	5Ah	Title reverse mode(plane B)		006015
0	1 0	1 1 0 1 1	5Bh			
0	1 0	1 1 1 0 0	5Ch			
0	1 0	1 1 1 0 1	5Dh			
0	1 0	1 1 1 1 0	5Eh			
0	1 0	1 1 1 1 1	5Fh			

3.7.VIDEO CAMERA

VIDEO CAMERA (CAM) COMMAND TABLE

CODE					Command name	Mandatory Command	Command number
D7	D6D5	D4	D0	HEX			
0	10	00000		40h	Zoom		007001
0	10	00001		41h	Focus		007002
0	10	00010		42h			
0	10	00011		43h	White balance		007003
0	10	00100		44h			
0	10	00101		45h			
0	10	00110		46h			
0	10	00111		47h	Shutter speed		007004
0	10	01000		48h	Iris		007005
0	10	01001		49h	AGC		007006
0	10	01010		4Ah	Electric zoom		007007
0	10	01011		4Bh	Electric zoom (relative)		007012
0	10	01100		4Ch	White balance one-touch adjust		007009
0	10	01101		4Dh	EIS (Electric Image Stabilizer)		007010
0	10	01110		4Eh	Camera mode request		007000
0	10	01111		4Fh	Video camera light		007011
0	10	10000		50h			
0	10	10001		51h			
0	10	10010		52h			
0	10	10011		53h			
0	10	10100		54h			
0	10	10101		55h			
0	10	10110		56h			
0	10	10111		57h			
0	10	11000		58h			
0	10	11001		59h			
0	10	11010		5Ah			
0	10	11011		5Bh			
0	10	11100		5Ch			
0	10	11101		5Dh			
0	10	11110		5Eh			
0	10	11111		5Fh			

3.8.VIDEO TUNER

VIDEO TUNER (VTU) COMMAND TABLE

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	10	00000	40h	Band select		011001
0	10	00001	41h	Broadcasting system select		011002
0	10	00010	42h	Real channel select		011003
0	10	00011	43h	Receiving frequency select		011004
0	10	00100	44h	Preset memory channel select		011005
0	10	00101	45h	Audio mode select		011006
0	10	00110	46h			
0	10	00111	47h			
0	10	01000	48h			
0	10	01001	49h			
0	10	01010	4Ah			
0	10	01011	4Bh			
0	10	01100	4Ch			
0	10	01101	4Dh			
0	10	01110	4Eh	VTU mode request		011000
0	10	01111	4Fh			
0	10	10000	50h			
0	10	10001	51h			
0	10	10010	52h			
0	10	10011	53h			
0	10	10100	54h			
0	10	10101	55h			
0	10	10110	56h			
0	10	10111	57h			
0	10	11000	58h			
0	10	11001	59h			
0	10	11010	5Ah			
0	10	11011	5Bh			
0	10	11100	5Ch			
0	10	11101	5Dh			
0	10	11110	5Eh			
0	10	11111	5Fh			

3.9.VIDEO DISK PLAYER

VIDEO DISK (VDP) COMMAND TABLE 1OF2

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	1 0	0 0 0 0 0	40h	Medium		017002
0	1 0	0 0 0 0 1	41h			
0	1 0	0 0 0 1 0	42h			
0	1 0	0 0 0 1 1	43h	Play		017001
0	1 0	0 0 1 0 0	44h	Disk stop		017004
0	1 0	0 0 1 0 1	45h	Frame play		017003
0	1 0	0 0 1 1 0	46h			
0	1 0	0 0 1 1 1	47h			
0	1 0	0 1 0 0 0	48h			
0	1 0	0 1 0 0 1	49h			
0	1 0	0 1 0 1 0	4Ah			
0	1 0	0 1 0 1 1	4Bh	Counter information request		017005
0	1 0	0 1 1 0 0	4Ch			
0	1 0	0 1 1 0 1	4Dh			
0	1 0	0 1 1 1 0	4Eh	VDP mode request		017000
0	1 0	0 1 1 1 1	4Fh	Chapter skip		017006
0	1 0	1 0 0 0 0	50h			
0	1 0	1 0 0 0 1	51h			
0	1 0	1 0 0 1 0	52h	Play back speed request		017008
0	1 0	1 0 0 1 1	53h	Disk Information request		017009
0	1 0	1 0 1 0 0	54h	Auto set start		017012
0	1 0	1 0 1 0 1	55h	Play back language select		017014
0	1 0	1 0 1 1 0	56h	Sub-picture select		017015
0	1 0	1 0 1 1 1	57h	Multi-angle select		017017
0	1 0	1 1 0 0 0	58h			
0	1 0	1 1 0 0 1	59h			
0	1 0	1 1 0 1 0	5Ah	Display mode select		017018
0	1 0	1 1 0 1 1	5Bh	Parental level set		017019
0	1 0	1 1 1 0 0	5Ch			
0	1 0	1 1 1 0 1	5Dh			
0	1 0	1 1 1 1 0	5Eh			
0	1 0	1 1 1 1 1	5Fh			

VIDEO DISK (VDP) COMMAND TABLE 2OF2

CODE				Command name	Mandatory Command	Command Number
D7	D6D5	D4 D0	HEX			
0	1 1	0 0 0 0 0	60h	Menu-call Navigation Play back audio mode select Time search Repeat Speaker mode select		017020 017021 017022 017023 017024 017025
0	1 1	0 0 0 0 1	61h			
0	1 1	0 0 0 1 0	62h			
0	1 1	0 0 0 1 1	63h			
0	1 1	0 0 1 0 0	64h			
0	1 1	0 0 1 0 1	65h			
0	1 1	0 0 1 1 0	66h			
0	1 1	0 0 1 1 1	67h			
0	1 1	0 1 0 0 0	68h			
0	1 1	0 1 0 0 1	69h			
0	1 1	0 1 0 1 0	6Ah			
0	1 1	0 1 0 1 1	6Bh			
0	1 1	0 1 1 0 0	6Ch			
0	1 1	0 1 1 0 1	6Dh			
0	1 1	0 1 1 1 0	6Eh			
0	1 1	0 1 1 1 1	6Fh			

3.10.VIDEO CAPTURE

VIDEO CAPTURE (VCF) COMMAND TABLE

CODE					Command name	Mandatory Command	Command number
D7	D6D5	D4	D0	HEX			
0	10	00000		40h	Capture execute		018001
0	10	00001		41h			
0	10	00010		42h			
0	10	00011		43h			
0	10	00100		44h			
0	10	00101		45h	Video monitor out select		018003
0	10	00110		46h			
0	10	00111		47h			
0	10	01000		48h			
0	10	01001		49h			
0	10	01010		4Ah	Field mode		018002
0	10	01011		4Bh			
0	10	01100		4Ch			
0	10	01101		4Dh	VCF mode request		018000
0	10	01110		4Eh			
0	10	01111		4Fh			
0	10	10000		50h			
0	10	10001		51h			
0	10	10010		52h			
0	10	10011		53h			
0	10	10100		54h			
0	10	10101		55h			
0	10	10110		56h			
0	10	10111		57h			
0	10	11000		58h			
0	10	11001		59h			
0	10	11010		5Ah			
0	10	11011		5Bh			
0	10	11100		5Ch			
0	10	11101		5Dh			
0	10	11110		5Eh			
0	10	11111		5Fh			

3.11.VIDEO EFFECTER

VIDEO EFFECTOR (VEF) COMMAND TABLE

CODE				Command name	Mandatory Command	Command number
D7	D6D5	D4 D0	HEX			
0	1 0	0 0 0 0 0	40h	Wipe source select		019000
0	1 0	0 0 0 0 1	41h	Wipe mode select		019001
0	1 0	0 0 0 1 0	42h	Wipe border		019002
0	1 0	0 0 0 1 1	43h	Wipe execute		019003
0	1 0	0 0 1 0 0	44h	Fade source select		019004
0	1 0	0 0 1 0 1	45h	Fade mode select		019005
0	1 0	0 0 1 1 0	46h	Preset function		019006
0	1 0	0 0 1 1 1	47h	Fade execute		019007
0	1 0	0 1 0 0 0	48h	Special effect select		019008
0	1 0	0 1 0 0 1	49h	Special effect memory control		019009
0	1 0	0 1 0 1 0	4Ah	Video effect capability request		019010
0	1 0	0 1 0 1 1	4Bh			
0	1 0	0 1 1 0 0	4Ch			
0	1 0	0 1 1 0 1	4Dh			
0	1 0	0 1 1 1 0	4Eh			
0	1 0	0 1 1 1 1	4Fh			
0	1 0	1 0 0 0 0	50h			
0	1 0	1 0 0 0 1	51h			
0	1 0	1 0 0 1 0	52h			
0	1 0	1 0 0 1 1	53h			
0	1 0	1 0 1 0 0	54h			
0	1 0	1 0 1 0 1	55h			
0	1 0	1 0 1 1 0	56h			
0	1 0	1 0 1 1 1	57h			
0	1 0	1 1 0 0 0	58h			
0	1 0	1 1 0 0 1	59h			
0	1 0	1 1 0 1 0	5Ah			
0	1 0	1 1 0 1 1	5Bh			
0	1 0	1 1 1 0 0	5Ch			
0	1 0	1 1 1 0 1	5Dh			
0	1 0	1 1 1 1 0	5Eh			
0	1 0	1 1 1 1 1	5Fh			

3.12.COMMON FUNCTION

COMMON FUNCTION COMMAND TABLE

CODE					Command name	Mandatory Command	Command number
D7	D6D5	D4	D0	HEX			
0	10	00000		40h			
0	10	00001		41h			
0	10	00010		42h			
0	10	00011		43h			
0	10	00100		44h			
0	10	00101		45h			
0	10	00110		46h			
0	10	00111		47h			
0	10	01000		48h			
0	10	01001		49h			
0	10	01010		4Ah			
0	10	01011		4Bh			
0	10	01100		4Ch			
0	10	01101		4Dh			
0	10	01110		4Eh			
0	10	01111		4Fh			
0	10	10000		50h			
0	10	10001		51h			
0	10	10010		52h			
0	10	10011		53h			
0	10	10100		54h			
0	10	10101		55h			
0	10	10110		56h			
0	10	10111		57h			
0	10	11000		58h	Source select data request		700000
0	10	11001		59h	Source select (asynchronous)		700001
0	10	11010		5Ah	Source select (synchronous)		700002
0	10	11011		5Bh	iLINK source select data request		700003
0	10	11100		5Ch	iLINK source select (asynchronous)		700004
0	10	11101		5Dh			
0	10	11110		5Eh			
0	10	11111		5Fh			

4.JLIP mandatory support command

JLIP mandatory support command is as follows;

COMMAND NUMBER	COMMAND NAME
0 0 1 0 0 3	Machine category request command
0 0 1 0 0 6	Machine name request command
0 0 1 0 0 8	NOP command
0 0 1 0 0 9	Baud rate ability request command
0 0 1 0 1 3	Machine code request command*
0 0 1 0 2 0	Receiving data invalidate mode set command
0 0 2 0 0 0	ASD mode request command

* A few models in early time are not supported.

5.Input source select number table

This table is used by the commands for selecting input source (command #700000,#700001,etc.).
The number is for a parameter of the commands.

Input source select number table 1 of 2

No	source name	detail of source	No	source name	detail of source
1	VTR1	VTR	31	VDP	video disk player
2	VTR2	Video tape player	32		
3	VTR3	VTR with monitor	33	DVD	
4			34		
5			35	CD	audio CD player
6	MOVIE1	video camera recorder with monitor	36	video CD	
7	MOVIE2	video camera recorder	37	CD-G	CD graphics
8			38		
9	CAMERA1	video camera	39		
10			40	turntable	phonograph
11	TV1	TV	41	AMP	Amplifier, receiver
12	TV2	video monitor	42		
13	TV3	projection system	43	Tuner1	AM/FM tuner
14			44	Tuner2	FM tuner
15	PROJECTOR		45		
16	TV tuner1	TV tuner	46	Audio selector	
17	TV tuner2	TV tuner(CATV only)	47		
18			48	MIC mixer	microphone mixer
19			49	Audio effector	
20	video printer		50	Graphic Equalizer	
21	BS tuner	BS tuner#1	51	cassette recorder1	compact cassette
22	CS tuner	CS tuner#1	52	cassette recorder2	
23			53	DCC	
24			54		
25	decoder1	teletext decoder	55	DAT	
26	decoder2	M-N converter	56		
27	decoder3	WOWOW decoder	57	MD	
28	decoder4	caption decoder	58		
29	decoder5		59		
30			60	iLINK	digital VTR & other device

Input source select number table 2of2

No	source name	detail of source	No	source name	detail of source
61	AUX input terminal#1	AUX IN#1(VIDEO IN#1)	81	Telephone	
62	AUX input terminal#2	AUX IN#2(VIDEO IN#2)	82		
63	AUX input terminal#3	AUX IN#3(VIDEO IN#3)	83		
64	AUX input terminal#4		84		
65	(reserved)		85		
66	AV selector1		86		
67	AV selector2		87		
68	video effector		88		
69	video titler	video titler, teloper	89		
70	(reserved)		90		
71	(reserved)		91		
72	(reserved)		92		
73	(reserved)		93		
74	(reserved)		94		
75	(reserved)		95	Computer	
76	(reserved)		96		
77	(reserved)		97		
78	(reserved)		98		
79	(reserved)		99		
80	(reserved)				

6. STANDARD RETURN DATA

6.1. SYS standard return data

4th	5th	6th	7th	8th	9th	10th
Command status	SYS standard data #1	SYS standard data #2	SYS standard data #3	SYS standard data #4	SYS standard data #5	SYS standard data #6

The meaning of the bit D0 in the 5th data is as follows.

D0 = 1: The information data of communication is available at either power on or off.

D0 = 0: The information data of communication is available only at power on.

6th - 10th return data are 00h.

6.2. ASD standard return data

4th	5th	6th	7th	8th	9th	10th
Command status	ASD standard data #1	ASD standard data #2	ASD standard data #3	ASD standard data #4	ASD standard data #5	ASD standard data #6

5th data : Power status

D6 : (Reserved)

D5 : (Reserved)

D4 : (Reserved)

D3 : (Reserved)

D1 : (Reserved)

D0 : Power status

1 : Power on

0 : Power off

6th – 10th data (Reserved) : All 00h

6.3. VTR standard return data

4th	5th	6th	7th	8th	9th	10th
Command status	VTR standard data #1	VTR standard data #2	VTR standard data #3	VTR standard data #4	VTR standard data #5	VTR standard data #6

5th data : mode status

D6 : Emergency

1 : exist

0 : no

D5 : REC safety

1 : ON (REC Inhibit)

0 : OFF (REC permit)

D4 : Tape empty

1 : no tape

0 : tape IN

D3 - D0 : VTR mode

D3

D2

D1

D0

0

0

0

0

: Eject

0

0

0

1

: Wind Stop

0

0

1

0

: Wind Forward

0

0

1

1

: Wind Reverse

0

1

0

1

: Play Pause

0

1

1

0

: Play Forward

0

1

1

1

: Play Reverse

1

1

0

1

: Rec Pause

1

1

1

0

: Rec On

1

1

1

1

: no Mode

6th data : alarm information

D6 : Tape remain alarm 1 : empty 0 : no
 D5 : Battery empty 1 : empty 0 : no
 D4 : 0
 D3 : 0
 D2 : Video signal 1 : PAL,SECAM 0 : NTSC
 D1 - D0 : Tape counter mode
 D1 D0 Counter mode
 0 0 : Non-drop frame mode frame counter
 0 1 : Drop frame mode frame counter
 1 0 : Absolute track number
 1 1 : Normal counter

7th – 10th data : Counter information

D6 - D0 : counter information of VTR (counter number, sign)

These 7th between 10th data are indicated by the binary data.

	7th	8th	9th	10th
Frame Counter	0-63(h)	0-59(m)	0-59(s)	0-29(F) NTSC 0-24(F) PAL
	Bit 6 of 8th data indicates a sign (1 : - , 0 : +) When the bit 6 of 9th data is 1, these counter data are not effective.			
Normal Counter	0-9	0-9	0-9	0-9
Absolute track number	D23-D18	D17-D12	D11-D6	D5-D0
	Bit 6 of 7th data indicates the continuity of number. When the bit 6 of 7th data is 1, the data has no continuity.			

6.4. CAM standard return data

4th	5th	6th	7th	8th	9th	10th
command status	CAM standard data #1	CAM standard data #2	CAM standard data #3	CAM standard data #4	CAM standard data #5	CAM standard data #6

5th data : Zoom status

D6 : (Reserved)
 D5 : (Reserved)
 D4 : (Reserved)
 D3 : Telescopic end limit information of zoom position
 1 : At telescopic end limit, 0 : Not at
 D2 : Wide end limit information of zoom position
 1 : At wide end limit, 0 : Not at
 D1 : Moving information of zoom lens
 1 : In motion, 0 : Not
 D0 : Moving direction information of zoom lens
 1 : Moving to telescopic end, 0 : Moving to wide end
 This information is in effect at D1=1.

6th data : Focus status

D6 : (Reserved)
 D5 : (Reserved)
 D4 : (Reserved)
 D3 : Infinite-point limit information of focus position
 1 : At infinite-point limit, 0 : Not at
 D2 : Nearest point limit information of focus position
 1 : At nearest point limit, 0 : Not at

D1 : Moving information of focus lens
 1 : In motion, 0 : Not
 D0 : Moving direction information of focus lens
 1 : Moving to infinite-point, 0 : Moving to nearest point
 (This information is in effect at D1=1.)

7th data : Zoom position information

D6 : (Reserved)

D5 : (Reserved)

D4 : (Reserved)

D3 - D0 : Zoom position information

D3 D2 D1 D0 : zoom position

15 : 1 1 1 1 : Telescopic end or neighborhood in electric zoom region.

14 : 1 1 1 0 : Wide end or neighborhood in electric zoom region.

13 : 1 1 0 1 : Telescopic end in optical zoom region
or wide end in electric region.

12 : 1 1 0 0 : Telescopic end or neighborhood in optical zoom region.

⋮

⋮

1 : 0 0 0 1 : Wide end or neighborhood in optical zoom.

0 : 0 0 0 0 : Wide end in optical zoom

8th – 10th data (Reserved)

All 00h

6.5. VPR standard return data

4th	5th	6th	7th	8th	9th	10th
command status	VPR standard data #1	VPR standard data #2	VPR standard data #3	VPR standard data #4	VPR standard data #5	VPR standard data #6

5th data (Printer message code)

00h : No error (working well)

01h : Door open

02h : No ink sheet

03h : Heated up the head

04h : Paper jammed

05h : No input signal

06h : Memory full

07h : No memory data

08h : In printing

09h : At transferring the data

0Fh : Other error

6th – 10th data : All 00h

6.6. VTU standard return data

4th	5th	6th	7th	8th	9th	10th
command status	VTU standard data #1	VTU standard data #2	VTU standard data #3	VTU standard data #4	VTU standard data #5	VTU standard data #6

It consists of video tuner receiving information. The main contents are band data, channel or receiving frequency data, and broadcasting system.

< contents >

The command status is 03h, if it is able to execute all its parameters.

5th data : It ordinary consists of the receiving band data.

The unsupported machine gives 00h.

6th data – 8th data : It consists of the channel selection data depended on each command.

When a command is not executable the kind of return data are selected by the priority as follows.

The order of priority

1. Preset channel data
2. Real channel data
3. Frequency data

When a machine do not have the data, it gives 00h.

In case of the receiving status request command, 6th data means the status of receiving channel selection, 7th data means the status of video signal, and 8th data means status of audio signal.

9th data : It ordinary means the broadcasting system data.

In case of the receiving status request command, 9th data is 00h.

10th data : Not defined. Usually, it is 00h.

[5th data : Receiving band information]

bit 6, bit 5, bit 4, bit 3 : Receiving band information

00h (0000) : Depend on a machine (unknown)
 20h (0100) : FM
 28h (0101) : AM
 30h (0110) : AIR (terrestrial broadcasting TV tuner)
 38h (0111) : CATV
 40h (1000) : BS1
 48h (1001) : BS2
 50h (1010) : CS1
 58h (1011) : CS2

bit 2, bit 1 : Antenna select information

bit 2, bit 1 = 0 , 0 : AUTO
 = 0 , 1 : Input #1
 = 1 , 0 : Input #2
 = 1 , 1 : (Not defined)

bit 0 : AFC information 0 : Standard 1 : Off

[6th data : Channel select information data # 1]

[7th data : Channel select information data # 2]

[8th data : Channel select information data # 3]

- Real channel information

Channel select information data # 1 = 51h : Real channel identifier

Channel select information data # 2 = 00h (0) - 63h (99) :

Real channel number (100, 1000 places)

Channel select information data # 3 = 00h (0) - 63h (99) : Real channel number (1 , 10 places)

- Preset channel information

Channel select information data # 1 = 53h : Preset channel identifier

Channel select information data # 2 = 00h (0) - 63h (99) :

Preset channel number(100, 1000 places)= 65h (101) - 6Eh (110) : Preset channel bank number

Channel select information data # 3 = 00h (0) - 63h (99) : Preset channel number (1 , 10 places)

- Receiving frequency information

Channel select information data # 1 = 00h (0) - 3Fh (63) : Frequency data (upper 2 digits)

Channel select information data # 2 = 00h (0) - 63h (99) : Frequency data (middle 2 digits)

Channel select information data # 3 = 00h (0) - 63h (99) : Frequency data (lower 2 digits)

In case of AM :

Frequency (kHz) = [data #1] X 10000 + [data #2] X 100 + [data #3] X 1

In case of FM, AIR, CATV, BS, CS :

Frequency (MHz) = [data #1] X 100 + [data #2] X 1 + [data #3] X 0.01

- The state of receiving channel selection

Channel select information data #1 = The state Information for receiving channel selection

bit 0 : Seek information 0 : Seek stop 1 : In seeking

bit 6 - 1 : all 0

Channel select information data #2 = The state of video signal

bit 1 : State of scramble 0 : Scramble off 1 : Scramble on

bit 0 : Broadcasting content 0 : Broadcasting content 1 : anti-broadcasting content

bit 6 - bit 2 : all 0

Channel select information data #3 = The state of audio signal

bit 0 : Audio mode information 0 : A-mode 1 : B-mode

bit 3, bit 2, bit 1 : TV audio information

The state of multilingual broadcasting which are consist of the basic audio channel regarding of the program of TV picture and the other extra audio channel.

bit 3 : State of scramble

0 : Off

1 : On

bit 2, bit 1 : State of multilingual

bit 2, bit 1 = 0 , 0 : Stereo

= 0 , 1 : Monaural 1ch

= 1 , 0 : Bilingual

= 1 , 1 : Other

bit 6, bit 5, bit 4 : Independent audio information, or added audio information

The state of audio channel which is independent of the program of TV picture.

bit 6 : State of scramble

0 : Off

1 : On

bit 5, bit 4 : State of multilingual

bit 5, bit 4 = 0 , 0 : Stereo

= 0 , 1 : Monaural, 1ch

= 1 , 0 : Bilingual

= 1 , 1 : Other

[9th data : Broadcasting system information]

00h : (Unknown)

01h : BG : PAL(Europe except U.K.)

02h : DK : PAL(East Europe and Russia)

03h : L : SECAM

04h : M : NTSC 3.58MHz

05h : N : NTSC 4.4.3MHz

06h : I : PAL(U.K.,HongKong)

0Fh : Other : (PAL-M(Brazil) , PAL-N(Argentine))

Bit 6, bit 5, bit 4 are all 0.

[10th data : Not defined.]

Usually, it is 00h.

6.7. VEF standard return data

4th	5th	6th	7th	8th	9th	10th
command status	VEF standard data #1	VEF standard data #2	VEF standard data #3	VEF standard data #4	VEF standard data #5	VEF standard data #6

5th data : Effect level #1 - 1
D6 - D0 : Effect level D7 - D1

6th data : Effect level #1 - 2
D6 - D1 : (Not defined) All 0
D0 : Effect level D0

The effect level consists of the balance position using 256 steps between 2 sources at Fade or Wipe mode. The effect level range may not have the all steps from 0 to 255. Its range depends on the machine. And, it prescribes the output of source-A is selected when the value of the effect level is minimum. And the output of source-B selected when it is maximum.

7th data : Source information
D6 - D4 : (Not defined) All 0
D3: State of Fade or Wipe auto execution 1: Active 0 : Inactive
D2: State of source B output 1 : B output is active only.
D1: State of source A output 1 : A output is active only.
D0: State of memory data 1 : exist 0: not exist

This data shows for the output state of two sources.

Both A and B source is mixed out, when both D2 and D1 are 0.

D0 shows the state of the still picture memory for the special effect.

The special effect is available, when the data exists in the memory.

8th – 10th data : Not defined All 0

Appendix

< Revised item in 5.1.4 from 5.1.3 >

Page 10 : “iLINK source select information request “ and
“iLINK source select“ command added.

Page 19: “Video effect capability request” command added.

Page 20: “iLINK source select information request “ and
“iLINK source select“ command added.

Page 22: “iLINK” source as #60 of parameter added

Page 25: Maximum value of hour extended to 99 from 23
in VTR standard return data.

Page 28: 10th data of VTU standard return data description added.

and some words corrected.

< Revised item in 5.1.5 from 5.1.4 >

Page 27 : bit 6 added in Receiving band information(corrected).

< Revised item in 5.1.6 from 5.1.5 >

Page 28 : More documents of the 9th data of VTU standard return data added.

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