

MINOLTA

PJL Command Specification for NTS

Management Number: SS1- PJLNTS9132-0103

MFP Development Division

Development Center 2

Minolta Co., Ltd.

Version	Author	Date
Version1.0	M.Murakami	2001/03/27
Version1.1	M.Murakami	2001/03/30
Version1.2	M.Murakami	2001/04/26
Version1.3	M.Murakami	2001/05/18

Approved	Manager	Leader	Author
			
Y.Ikenoue	K.Emori	T.Yoshimura	M.Murakami

History

Date	Chapter	Class	Content	Person in Charge
2001/02/27	All	Meeting	Discuss with Minolta (Dgr)	M.Murakami
2001/03/27	All	Modify	Modify for NTS Project from PJL Specification for FUM	M.Murakami
200103/30		Modify	Modify some minor mistake	M.Murakami
2001/03/30		Add	Add length and width for FLS1,FLS2,FLS3,FLS4	M.Murakami
2001/04/9	All	Modify	Modify some item after meeting with Mgr. This meeting is to standardize PJL in Minolta	M.Murakami
2001/04/26	All	Modify	Update according to Telephone Conference with Destiny on 4/26	M.Murakami
	3.	Delete	NTS dose not support Postscript	
	4-1	Delete	Delete PostScript, because NTS dose not support PS	
	4-1	Delete	Add 11x14 inch into PAPER	
	4-1	Add	Spec.out of CONTINUOSDENSITY in NTS	
	4-1	Delete	Delete PRTPSERRS PostScript, because NTS dose not support PS	
	4-1	Delete	Remove MANUALFEED from COVERTRAY and BACKCOVERTRAY	
	4-2-3	Delete	Spec. out POSTSCRIPT	
	4-2-7	Delete	Remove MANUALFEED	
	4-2-8	Delete	Remove MANUALFEED	
	4-2-13	Delete	Remove CONTINUOSDENSITY because NTS dose not support	
	4-2-41	Add	Add 11x14 inch	
	4-2-43	Delete	NTS dose not support Windwos3.1 Japanese	
	4-2-43	Modify	Change Assigned Number for Typeface keep compatible with HP	
	4-2-43	Add	Add Line Printer	
	5.	Delete	CONTINUOSDENSITY, SORT,PRTPSERRS are spec out	
	5.	Modify	MEDIASOURCE is supported	
	5.	Delete	MEDIATYPE in DEFAULT is not supported	
	6-3	Delete	NTS dose not support PCL6 and PostScript	
	7-1	Modify	No need to localize for Job Name	
	9-4	Modify	Define details response Parameter and Item	
	9-5	Modify	Add Response Parameter of Status	

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1. Abstract

- (1) This Document describe about PJL(Print Job Language).
- (2) Almost PJL Command compatible with HP's PJL Command,
and some PJL Command is modified or added for **NTS Project**.
- (3) If you want to know what PJL should be supported, please refer

3. Supported PJL Command

4.1 Requirement Environment Variable.

- (4) If you want know Minolta Original Environment Variable for more details, please refer

4-2 Details of Minolta Original Environment Variable and Value

- (5) If you want to know each PJL command for more details, please refer

6. Kernel Commands

7. Job Separation Commands

8. Environment Commands

9. Status ReadBack Commands

10. Device Attendance Commands

11. PJL File System Commands

- (6) If you want to know the relation of IJC Parameter and PJL commands, please refer

Appendix B: List of Compatible with IJC

- (7) If you want to know the supported PJL Status Code in this project, please refer

Appendix A: PJL Status Code

- (8) This Document bases on "Printer Job Language Technical Reference Manual" by HP,
The Manual Part Number is "5021-0328".

If there is item which is not defined or described in this Document,
that item is compatible with HP PJL.

- (9) If Printer receives undefined or not supported PJL Command, the Printer ignore it.

- (10) The reference is following,

Specification	Contents	Version	Issue
Printer Job Language Technical Reference Manual	Definition PJL by HP	Eleven Edition	HP
PJL and PCL XL Command Specification For Minolta Printer Driver	Definition Minolta Original PJL and PCL Command	Version1.6	Dgr
· #9048 API SPECIFICATION Data Volume (Version D)	API Specification for IJC	(Version D)	TDC
Printer Function Specification	Definition Print Function on Copier Based MFP	Version1.0	JD gr
PCL5 Printer Language Technical Quick Reference	Definition PCL and PJL for HP Product		HP
PCL XL Feature Reference Protocol Calss2.0	Definition XL Command by HP	p2.2	HP
PCL 5 Comparison Guide	Definition PCL and PJL for HP Products		
Copier Based MFP PJL Command Specification	PJL Specification for FUM	Version1.0	Minolta (JD Gr)

(11). Basic Rule.

· The priority among PJL, PDL Command, and Panel Setting is,

PDL Command > PJL Command > Panel Setting.

This rule is always available and same as HP behavior.

(12) The item which is modify for NTS Project is printed BLUE Color

2. Word Definition

Word	Chapter
PJL	Printer Job Language
PDL	Printer Description Language such as PCL6c, PCLXL
PS	Postscript
PCL	Printer Control Language by HP
NOZOMI	Destiny GDI Printer Language
IJC	Image Job Controller
Panel Setting	Default Value in NVRAM by setting from Operation Panel.

3. Supported PJL Command

- This section define supported PJL Command.
- With regard to Details of each Command, please refer **“6. Kernel Commands to 11. PJL FILE System Commands”**

Table 3-(1) Supported PJL Command List

Group	Command	variable	Value	Requirement	Note
Kernel Commands	Universal Exit language(UEL)			YES	
	COMMENT			YES	
	ENTER			YES	
		LANGUAGE	(AUTO)	Yes	
			PCL	Yes	
			POSTSCRIPT	Yes	
			ESCP	Yes	
				No	
			INSTALLED	No	
			PCLXL	Yes	
		NOZOMI	Yes	No	
Job Separation Commands	JOB			YES	
		NAME		Yes	
		START		No	
		END		No	
		PASSWORD		No	
	EOJ			YES	
	NAME		No		
Environment Commands	DEFAULT	----	----	Yes	Refer “4. Supported Environment variable”
	SET	----	----	YES	Refer “4. Supported Environment variable”
	INITIALIZE			NO	
	RESET			NO	
Status Readback Commands	INQUIRE	----	----	No	Refer“4.Supported Environment variable”
	DINQUIRE	----	----	Yes	Refer “4. Supported Environment variable”
	ECHO			Yes	
	INFO			Yes	
		ID		Yes	
		CONFIG		Yes	
		FILESYS		No	
		MEMORY		Yes	
		PAGECOUNT		No	
		STATUS		Yes	
	VARIABLE		Yes		
	USTATUS		No		
USTATUS			YES		

			Yes	
	DEVICE	ON VERBOSE OFF	Yes	
	JOB	ON OFF	No	
	PAGE	ON OFF	No	
	TIMES		No	
	USTATUSOFF		YES	
Device Attendance Commands	RDYMSG		NO	
	OPMSG		NO	
	STMSG		NO	
PJL File System Commands	FSAPPEND		NO	
	FSDELETED		YES	
	FSDIRLIST		NO	
	FSDOWNLOAD		YES	For Download Font Refer FSDOWNLOAD
	FSINIT		NO	
	FSMKDIR		NO	
	FSQUERY		NO	
	FSUPLOAD		NO	

Note) Yes or No(Regular Style) is for Parameter or value.

Yes: Support in this project, No: NOT support in this project

YES or **NO** (Bold Style) is for Command

YES: Support in this project, **NO**: NOT support in this project

[History]

2001/03/26	Remove PJL File System Command HP4000 or 8000 sires dose not support File System PJL command. This project also dose not support these command. With regard to Operating Download Font, We use original protocol	M.Murakami
2001/03/26	Remove "USTATUS", "USTATUSOFF" Impact schedule to implement this command. We must continue to study how to support outer NIC Box	M.Murakami
2000/03/27	Remove DEFAULT DEFAULT setting is done by Panel and PSL. and Remote Control Panel is not provided in this project	M.Murakami
2000/03/27	Remove INQUIRE, DINQUIRE User can check Default setting by PSL or Panel, and Remote Control Panel is not provided in this project. So, this command is no meanings	M.Murakami
2001/04/26	Support DEFUALT Command. This command is necessary for Special User and to keep HP Compatible	M.Murakami
2001/04/26	Support FSDOWNLOAD, FSDEETE This command is necessary to support Font Download	M.Murakami
2001/04/26	Support USTATUS, INFO, DINQUIRE, USTATUSOFF, ECHO This command is necessary to support Back-channel	M.Murakami
2001/05/17	NTS dose not support Postscript	M.Murakami

4. Supported Environment Variable

4-1 Requirement Environment Variable

- This section define supported Environment Variable and Value in this project
- In “**Table4-1-(1) Requirement Environment Variable**”, Minolta Original Variable is included.
- With regard to Details of Minolta Original Environment, please refer “**4-2 Details of Minolta Original Environment Variable and Value**”

Table4-1-(1) Requirement Environment Variable

Environment Variable	Variable Values	Requirement	Category	Note
AUTOCONT	OFF	No	Parameter is Minolta Original	- This variable is relation to Auto-Continue - Refer “4-2-33 AUTOCONT”
	20SEC	No		
	30SEC	No		
	60SEC	No		
	90SEC	No		
	120SEC	No		
	ON	No		
AUTOSELECT	ON	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	OFF	No		
BINDING	LONGEDGE	Yes	HP Compatible	- This variable is relation to Duplex - A parts of Variable is Minolta Original (TOP, LEFT) - Refer “4-2-34 DUPLEX / BINDING”
	SHORTEGE	Yes		
	TOP	Yes		
	LEFT	Yes		
BITSPERPIXEL	2	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	4	No		
CLEARABLEWARNINGS	JOB	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	ON	No		
COMPRESSRASTERSTORAGE	ON	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	OFF	No		
CONTEXTSWITCH	ON	TBD-No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	OFF	TBD-No		
COPIES	1 to 999	Yes	HP Compatible	- This variable is relation to Copies - - Refer “Printer Language Technical Reference Manual”
COURIER	REGULAR	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	DARK	No		
CPLOCK	OFF	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	ON	No		
DENSITY	1 to 5	No	Parameter is Minolta Original	This variable is relation to Image Density - Refer “4-2-35 DENSITY”
DISKLOCK	OFF	No	HP Compatible	- Refer “Printer Language Technical Reference —Manual”
	ON	No		
DUPLEX	OFF	Yes	HP Compatible	This variable is relation to Duplex - Refer “4-2-34 DUPLEX / BINDING”
	ON	Yes		
ECNOMODE	OFF	No	HP Compatible	This Variable is relation to Toner Save - Refer “Printer Language Technical Reference —Manual”
	ON	No		
FINISH	NONE	Yes	Parameter is	This Variable is relation to staple

	STAPLE	Yes	Minolta Original	- Refer "4-2-1 FINISH"
	LEFT	Yes No		
	UPPER	Yes No		
	CENTER	Yes		
	AUTO	Yes		
	LONGEDGE	No		
	SHORTEDGE	No		
	CORNER	Yes		
	LEFT1POINT	No Yes		
	LEFT2POINT	No Yes		
	RIGHT1POINT	No		
	RIGHT2POINT	No		
	UPPER2POINT	No Yes		
	UPPER1POINT	No		
	UPPER2POINT	No		
FORMLINES	5 to 128	Yes	HP Compatible	-This variable is relation to Line/Page - Refer "Printer Language Technical Reference Manual"
HOLD	OFF	Yes	HP Compatible	- Refer "4-2-27 HOLD/HOLDTYPE/ HOLDKEY/JOBNAME"
	ON	Yes		
	PROOF	Yes		
	STORE	Yes		
HOLDKEY	"0000" to "9999"	Yes	HP Compatible	- Refer "4-2-27 HOLD/HOLDTYPE/ HOLDKEY/JOBNAME"
HOLDTYPE	PUBLIC	Yes	HP Compatible	- Refer "4-2-27 HOLD/HOLDTYPE/ HOLDKEY/JOBNAME"
	PRIVATE	Yes		
IMAGEADAPT	AUTO	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	OFF	No		
	ON	No		
IMAGELOCATION	DISK	Yes No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	RAM	Yes No		
INTRAY1	UNLOCKED	No	HP Compatible	-Status or setting for Tray1 whether to rock or not - Refer "Printer Language Technical Reference Manual"
	LOCKED	No		
INTRAY2	UNLOCKED	No	HP Compatible	-Status or setting for Tray2 whether to rock or not - Refer "Printer Language Technical Reference Manual"
	LOCKED	No		
INTRAY3	UNLOCKED	No	HP Compatible	- Status or setting for Tray3 whether to rock or not - Refer "Printer Language Technical Reference Manual"
	LOCKED	No		
INTRAY4	UNLOCKED	No	Minolta Original	-Status or setting for Tray4 whether to rock or not - Refer "Printer Language Technical Reference Manual"
	LOCKED	No		
INTRAY5	UNLOCKED	No	Minolta Original	-Status or setting for Tray5 whether to rock or not - Refer "Printer Language Technical Reference Manual"
	LOCKED	No		
INTRAY1SIZE	LETTER	No	Parameter is	Paper Size for Tray1

	LEGAL	No	Minolta Original	Refer "Printer Language Technical Reference Manual"
	EXECUTIVE	No		
	A3	No		
	B4	No		
	A4	No		
	B5	No		
	A5	No		
	LEDGER	No		
	COM10	No		
	MONARCH	No		
	C5	No		
	DL	No		
	CUSTOM	No		
	JISB4	No		
	JISB5	No		
	JPOST	No		
	JPOSTD	No		
	A6	No		
	B6	No		
	INVOICE	No		
	OPTION	No		
	FLS1	No		
	FLS2	No		
	FLS3	No		
	FLS4	No		
	ROCK16K	No		
	ROCK8K	No		
	A3WIDE	No		
INTRAY#SIZE (#:2,3,4,5)	LETTER	No	Parameter is Minolta Original	Paper Size for Tray2 ~ Tray5 Refer "4-2-36 INTRAY#SIZE"
	LEGAL	No		
	EXECUTIVE	No		
	A3	No		
	B4	No		
	A4	No		
	B5	No		
	A5	No		
	LEDGER	No		
	COM10	No		
	MONARCH	No		
	C5	No		
	DL	No		
	CUSTOM	No		
	JISB4	No		
	JISB5	No		
	JPOST	No		
	JPOSTD	No		
	A6	No		
	B6	No		
	INVOICE	No		
	OPTION	No		
	FLS1	No		
	FLS2	No		
	FLS3	No		
	FLS4	No		
	ROCK8K	No		
	ROCK16K	No		
	A3WIDE	No		

IOBUFFER	ON	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	OFF	No		
	(AUTO)	No		
IOSIZE	10 to max.	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	Available memory	No		
JOBATTR	"Attribute String"	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
JOBID	ON	No	HP Compatible	
	OFF	No		
JOBIDVALUE	0 to 65535	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
JOBNAME	"Jobname String" (Up to 64)	Yes	HP Compatible	- Refer "4-2-27 HOLD/HOLDTYPE/ HOLDKEY/JOBNAME"
JOBOFFSET	(OFF)	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	ON	No		
LANG	DANISH	No	Parameter is Minolta Original	- Panel Language - Refer "4-2-37 LANG"
	GERMAN	No		
	(ENGLISH)	No		
	SPANISH	No		
	FRENCH	No		
	ITALIAN	No		
	DUTCH	No		
	NORWEGIAN	No		
	POLISH	No		
	PORTUGUESE	No		
	FINNISH	No		
	SWEDISH	No		
	TURKISH	No		
	JAPANESE	No		
CHINESE	No			
CZECH	No			
LOWTONER	ON	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	OFF	No		
	CONTINUE	No		
	STOP	No		
MANUALFEED	OFF	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	ON	No		
MARGINS	NORMAL	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	SMALLER	No		
	EXTENDED	NO		
MEDIASOURCE	DEFAULT	Yes	Parameter is Minolta Original	- Refer "4-2-38 MEDIASOURCE"
	TRAY1	Yes		
	TRAY2	Yes		
	TRAY3	Yes		
	TRAY4	Yes		
	TRAY5	Yes		
	ENVELOPE	No		
	LCC	Yes		
	LCT	No-Yes		
	MULTI	Yes		
MANUALFEED	Yes			

	AUTO	Yes		
MEDIATYPE	TRANSPARENCY	Yes	HP Compatible	-A part of Parameter are Minolta Original (THICK1, THICK2, ENVELOPE) -Refer "4-2-39 MEDIATYPE"
	GLOSSY	Yes		
	SPECIAL	Yes		
	PAPER	Yes		
	THICK1	Yes		
	THICK2	Yes		
	THICK3	Yes		
	LABEL	Yes		
ENVELOPE	Yes			
MIRROR	ON	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	OFF	No		
MPTRAY	MANUAL	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	CASSETTE	No		
	FIRST	No		
ORIENTATION	PORTRAIT	Yes	HP Compatible	- This function is relation to orientation - Refer "Printer Language Technical Reference Manual"
	LANDSCAPE	Yes		
OUTBIN	NONE DEFAULT	Yes	Parameter is	- This function is relation to Staple, Mail-Bin - Refer "4-2-2 OUTBIN"
	LEFT	Yes	Minolta Original	
	STAPLER	Yes-No		
	BIN1	Yes-No		
	BIN2	Yes		
	BIN3	Yes		
	BIN4	Yes		
	BIN5	Yes		
	OUTBIN1	Yes		
	OUTBIN2	Yes		
	OUTBIN3	Yes		
	OUTBIN4	Yes		
	OUTBIN5	Yes		
	UPPER	Yes-No		
	JOBTRAY	No		
	1ST2NDTRAYJOBTRAY	No		
	ELEVATOR	No		
	OPTIONTRAY	No		
LOWER	No			
OPTIONAL	No			
OUTPUTBIN1.....62 OUTPUTBIN1.....10 OPTIONALOUTBIN1 <t0> OUTPUTBIN1.....10 OPTIONALOUTBIN62	Yes			
OUTBINPROCESS	0 to 255	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
OUTLINEPOINTSIZ	0 to 999	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
OUTTONER	STOP	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	CONTINUE	No		
PAGELengthACCURACY	EXACT	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"

	OPTIMIZED	No		
	CONSTANT	No		
	MAXIMUM	No		
PAGEPROTECT	OFF	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	LETTER	No		
	LEGAL	No		
	A4	No		
	ON	No		
	AUTO	No		
PALLETESOURCE	DEVICE	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	SOFTWARE	No		
PAPER	LETTER	Yes	Parameter is Minolta Original	- This variable is related to Paper Size - Refer "4-2-41 PAPER" - ISO B4 - Envelope B5 Note) Only for SET Envelope B6 8 x 13 [inch] (foolscap) 210 x 330 [mm] (folio) 6 1/2 x 13 [inch] (G.Legal) 220 x 330 [mm]
	LEGAL	Yes		
	EXECUTIVE	Yes		
	A3	Yes		
	A3WIDE	Yes		
	B4	Yes No		
	A4	Yes		
	B5	Yes		
	A5	Yes		
	LEDGER	Yes		
	COM10	Yes		
	MONARCH	Yes		
	C5	Yes		
	DL	Yes		
	CUSTOM	No-Yes		
	JISB4	Yes		
	JISB5	Yes		
	JISB6	Yes		
	JPOST	Yes		
	JPOSTD	Yes		
	A6	Yes		
	B6	Yes No		
	INVOICE	Yes		
	OPTION	Yes-No		
	FLS1	Yes		
	FLS2	Yes		
	FLS3	Yes		
	FLS4	Yes		
	11X14	Yes		
	ROCK8K	Yes		
	ROCK16K	Yes		
PAPERLENGTH	0 to 432000	Yes	HP Compatible	-Refer "4.2.42 PAPERLENGTH/PAPERWIDTH"
PAPERWIDTH	0 to 432000	Yes	HP Compatible	-Refer "4.2.42 PAPERLENGTH/PAPERWIDTH"
PARALLEL	SLOW	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
	FAST	No		
PASSWORD	0 to 65535	No	HP Compatible	-Refer "Printer Language Technical Reference Manual"
PERSONALITY	(AUTO)	Yes	HP Compatible	-Emulation Type - "Refer 4-2-3 PERSONALITY"
	PCL	Yes		
	POSTSCRIPT	Yes		
	ESCP	No		

	INSTALLED	No		
	NOZOMI	Yes		
PLANESINUSE	3	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	4	No		
POWERSAVE	(ON)	No	Parameter is Minolta Original	- Power Save - Refer "Printer Language Technical Reference Manual"
	OFF	No		
POWERSAVETIME	15	No	Parameter is Minolta Original	- Power Save - Refer "Printer Language Technical Reference Manual"
	30	No		
	60	No		
	120	No		
	180	No		
PRINTQUALITY	DRAFT	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	NORMAL	No		
	HIGH	No		
QTY	1 to 999 (1)	Yes	HP Compatible	- This variable is relation to Collate - Refer "4-2-40 QTY"
REFILLDURATION	NORMAL	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	QUICK	No		
REFILLTHRESHOLD	5 to 100	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
REFILLTYPE	INTERLEAVED	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	SHARP	No		
RENDERMODE	COLOR	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	GRAYSCALE	No		
REPRINT	AUTO	No	HP Compatible	- This Variable is related to PCL JAM RECOVERY - Refer "Printer Language Technical Reference Manual"
	ON	No		
	OFF	No		
RESOLUTION	300	No	HP Compatible	- This Variable is relation to Resolution - Refer "Printer Language Technical Reference Manual"
	600	Yes		
RESOURCESAVE	ON	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	OFF	No		
	AUTO	No		
RESOURCESAVESIZE	0 to maximum available memory (in 100 Kbytes increments)	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
RET	(OFF)	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
	LIGHT	No		
	MEDIUM	No		
	DARK	No		
	ON	No		
USERNAME	"username string"	Yes	HP Compatible	- Refer "4-2-27 HOLD/HOLDTYPE/HOLDKEY / USERNAME"
TIMEOUT	5 to 300 (15)	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
WIDEA4	NO	Yes	HP Compatible	- Refer "Printer Language Technical Reference Manual"

	YES	Yes		Manual
FONTSOURCE	I	Yes	HP Compatible	- This variable is relation to Typeface - This item is for PCL - Refer "Printer Language Technical Reference Manual"
	M1,M2,M3,.....Mn	No		
	G	No		
	G1	No		
	G2	No		
S	Yes			
FONTNUMBER	0 to n (maximum value depends on the currently set font)		HP Compatible	- This variable is relation to Typeface - This item is for PCL - Refer "Printer Language Technical Reference Manual" - Refer "4-2-23 FONTSOURCE / FONTNUMBER / SYMSET"
LINETERMINATION	0, 1, 2, 3	No	HP Compatible	- Refer "Printer Language Technical Reference Manual"
PITCH	0.44 to 99.99	Yes	HP Compatible	- This variable is for font size for Bitmap Font - This item is for only PCL - Refer "Printer Language Technical Reference Manual"
PTSIZE	4.00 to 999.75	Yes	HP Compatible	- This variable is for font size for True Type Font - This item is for only PCL - Refer "Printer Language Technical Reference Manual"
SYMSET	Refer "4-2-43 FONTSOURCE / FONTNUMBER / SYMSET"	Yes	HP Compatible	- This variable is Symbol Set - This item is for only PCL - Refer "Printer Language Technical Reference Manual" - Refer "4-2-43 FONTSOURCE / FONTNUMBER / SYMSET"
ADOBEMBT	OFF	No	HP Compatible	- This variable is for PS - Refer "Printer Language Technical Reference Manual"
	ON	No		
	(AUTO)	No		
JAMRECOVERY	(OFF)	No	HP Compatible	- This variable is for PS - Refer "Printer Language Technical Reference Manual"
	ON	No		
PRTPSERRS	(OFF)	Yes	HP Compatible	- This variable is selection whether print error report or not - This variable is for PS - Refer "Printer Language Technical Reference Manual"
	ON	Yes		
MFEEDMEDIA	PLAIN	Yes No	Minolta Original Variable	- Refer "4-2-4 MFEEDMEDIA"
	THICKPAPER	Yes No		
	TRANSPARENCY	Yes No		
	ENVELOPE	Yes No		
	LETTERHEAD	Yes No		
SORTING	NONE	Yes No	Minolta Original	- Sort Mode
	SORT	No	Variable	- Refer "4-2-5 SORTING"
	GROUP	Yes No		
OHPMODE	NONE	Yes	Minolta Original Variable	- OHP Interleaving - Refer "4-2-6 OHPMODE / OHPTRAY / OHPOPTREAY"
	PRINT	Yes		
	BLANK	Yes		

OHPTRAY	DEFAULT	No	Minolta Original Variable	- OHP Interleaving - Refer "4-2-6 OHPMODE/OHPTRAY /OHPOPTREAY"
	AUTO	No		
	MANUALFEED	Yes No		
	TRAY1	Yes No		
	TRAY2	Yes No		
	TRAY3	Yes No		
	TRAY4	Yes No		
	TRAY5	Yes No		
	LCC	Yes No		
	LCT	Yes		
MULTI	No Yes			
ENVELOPE	No			
OHPOPTRAY	DEFAULT	No	Minolta Original Variable	- OHP Interleaving - Refer "4-2-6 OHPMODE/OHPTRAY /OHPOPTREAY"
	AUTO	No		
	MANUALFEED	No		
	TRAY1	Yes		
	TRAY2	Yes		
	TRAY3	Yes		
	TRAY4	Yes		
	TRAY5	Yes		
	LCC	Yes		
	LCT	No Yes		
MULTI	No Yes			
ENVELOPE	No			
COVERMODE	OFF	Yes	Minolta Original	- Front Cover Print
	NONE			
	PRINT	Yes	Variable	- Refer "4-2-7"OVERMODE/COVERTRAY"
	BLANK	Yes		
COVERTRAY	DEFAULT	No	Minolta Original Variable	- Front Cover Print - Refer "4-2-7"OVERMODE/COVERTRAY"
	AUTO	No		
	MANUALFEED	No Yes		
	TRAY1	Yes		
	TRAY2	Yes		
	TRAY3	Yes		
	TRAY4	Yes		
	TRAY5	Yes		
	LCC	Yes		
	LCT	No Yes		
MULTI	No Yes			
ENVELOPE	No			
BACKCOVER	OFF	Yes	Minolta Original	- Back Cover Print
	NONE			
BACKCOVERMODE	PRINT	No Yes	Variable	- Refer "4-2-b"BACKCOVERMODE /BACKCOVERTRAY"
	ON	Yes		
	BLANK			
BACKCOVERTRAY	DEFAULT	No	Minolta Original Variable	- Back Cover Print - Refer "4-2-b"BACKCOVERMODE /BACKCOVERTRAY"
	AUTO	No		
	MANUALFEED	No Yes		
	TRAY1	Yes		
	TRAY2	Yes		
	TRAY3	Yes		
	TRAY4	Yes		
	TRAY5	Yes		
LCC	Yes			

	LCT	No/Yes		
	MULTI	No/Yes		
	ENVELOPE	No		
PUNCH	NONE	Yes	Minolta Original Variable	- Punch Mode - Refer "4-2-9PUNCH / PUNCHNUM"
	LEFT	Yes		
	UPPER	Yes		
	RIGHT	No		
	LONGEDGE	No		
	SHORTEDGE	No		
	AUTO	Yes		
USERNAME	"- XXXXXXXX" (X: maximum 8 characters)	Yes	Minolta Original	- Information to show user name on Panel - Refer "4-2-10-USERNAME"
GROUPCODE	3 number of Numeric (000-999)	Yes	Minolta Original	- ID print - Refer "4-2-11 GROUPCODE"
	4 number of Numeric (0000-9999)			
MPTRAYS	4 number of Numeric	yes No	Minolta Original	- Refer 4-2-12 MPTRAYS"
CONTINUOUSMODE	NONE	Yes	Minolta Original	- Document Serial Number Print - Refer 4-2-13 CONTINUOUSMODE /CONTINUOSDENSITY/CONTINUOUSNUMBER /CONTINUOSCOLOR"
	HEADER	Yes		
	ALL	Yes		
CONTINUOSDENSITY	NORMAL	Yes	Minolta Original Variable	- Document serial Number Print - Refer 4-2-13 CONTINUOUSMODE /CONTINUOSDENSITY/CONTINUOUSNUMBER /CONTINUOSCOLOR
	DARKER	Yes		
	LIGHTER	Yes		
CONTINUOUSNUMBER	3 number of Numeric(1 to 999)	Yes	Minolta Original	- Document Serial Number Print - Refer 4-2-13 CONTINUOUSMODE /CONTINUOSDENSITY/CONTINUOUSNUMBER /CONTINUOSCOLOR
CONTINUOSCOLOR	BLACK 1 to 21	Yes	Minolta Original	- Document Serial Number Print - Refer 4-2-13 CONTINUOUSMODE /CONTINUOSDENSITY/CONTINUOUSNUMBER /CONTINUOSCOLOR
	RED	Yes		
	BLUE	Yes		
IGNRSIZE	ON	No	Minolta Original Variable	- Ignore Paper Size Error - Refer "4-2-14 IGNRSIZE"
	OFF	No		
IMAGESHIFT	ON	No	Minolta Original Variable	- Adjust Image shift slightly - Refer "4-2-15 IMAGESHIFT/IMAGESHIFTX /IMAGESHIFTY"
	OFF	No		
IMAGESHIFTX	from -10 to 10	No	Minolta Original variable	- Adjust Image shift slightly - Refer "4-2-15 IMAGESHIFT/IMAGESHIFTX /IMAGESHIFTY"
IMAGESHIFTY	from -10 to 10	No	Minolta Original variable	- Adjust Image shift slightly - Refer "4-2-15 IMAGESHIFT/IMAGESHIFTX /IMAGESHIFTY"
PAPERTIMEOUT	NO	No	Minolta Original Variable	- Setting of Printer's Action when Load Paper happen Refer "4-2-16 PAPERTIMOUT"
	PROCEED	No		
	CLEAR	No		
JOGGING	NO	No	Minolta Original Variable	- Jogging Mode - Refer "4-2-17 JOGING"
	PAGE	No		
	JOB	No		

	PRINTSET	No		
PRIORITYFEED	TRAY1	No	Minolta Original Variable	- Priority Feed When Feed Tray is Auto - Refer "4-2-18 PRIORITYFEED"
	TRAY2	No		
	TRAY3	No		
	TRAY4	No		
	TRAY5	No		
MARKETAREA	EUROPE	No	Minolta Original Variable	- Market Area setting or information - Refer "4-2-19 MARKETAREA"
	US	No		
	JAPAN	No		
	OTHER	No		
TESTPRINT	CONFIGPAGE	No	Minolta Original Variable	- Request Test Print - Refer "4-2-20 TESTPRINT"
	PCLFONTLIST	No		
	PSFONTLIST	No		
CUSTOM#WIDTH	0 to 297	Yes No	Minolta Original variable	- Paper Size for Custom Paper - Refer "4-2-21CUSTOM#WIDTH / CUSTOM#LENGTH"
CUSTOM#LENGTH	0 to 432	Yes No	Minolta Original variable	- Refer "4-2-21CUSTOM#WIDTH / CUSTOM#LENGTH"
TRAY1MEDIA	PLAIN	No	Minolta Original Variable	- Refer "4-2-22 TRAY1MEDIA"
	THICKPAPER	No		
	TRANSPARENCY	No		
	ENVELOPE	No		
	LETTERHEAD	No		
BOOKFORM	(NONE)	TBD No	Minolta Original Variable	- Booklet Mode done by Copier - Refer "4-2-23 BOOKFORM/MAGAZINFORM"
	LEFT	TBD No		
	UP	TBD No		
DOCNAME	"xxx....xxx " maximum 32 characters	Yes No	Minolta Original variable	- Document Name
FORMWIDTH	0 to 20	TBD No	Minolta Original variable	- Refer "4-2-23 BOOKFORM/MAGAZINFORM"
MAGAZINEFORM	(OFF)	TBD No	Minolta Original Variable	- Booklet Mode done by Copier - Refer "4-2-23 BOOKFORM/MAGAZINFORM"
	ON	TBD No		
N4	(HORZ)	No	Minolta Original Variable	- Layout for 4-up - Refer "4-2-24 NIN1/N4"
	VERT	No		
NIN1	(NONE)	No	Minolta Original Variable	- N-up Mode - Refer "4-2-24 NIN1/N4"
	N2	No		
	N4	No		
SMOOTH	(OFF)	No	Minolta Original Variable	- Refer "4-2-25 SMOOTH"
	ON	No		
PUNCHNUM		2 Yes	Minolta Original Variable	- Punch Mode - Refer "4-2-9 PUNCH/PUNCHNUM"
		3 Yes		
		4 Yes		
FOLDING	NONE	Yes	Minolta Original Variable	- Folding Mode - Refer "4-2-26 FOLDING"
	CREASE	Yes		
	HLALFFOLD	Yes		
	ZFOLD	Yes		
	ZFOLDA4	Yes		
	ZFOLDB5	Yes		
HOLD	OFF	Yes	LJ8550 Compatible	Store to HDD, Proof and Print, Store to Memory Secure Print
	PROOF	Yes		

	ON	Yes		
	STORE	Yes		
HOLDTYPE	PRIVATE	Yes	LJ8550	Secure-Print
	PUBLIC	Yes	Compatible	
HOLDKEY	XXXX	Yes	LJ8550 Compatible	Password for Secure Print
USERNAME	XXXX	TBD	LJ8550 Compatible	TBD
JOBNAME	XXXX	TBD	LJ8550 Compatible	TBD
IMAGEADJUST	AUTO	TBD	Minolta Original	- Refer "4-2-28 IMAGEADJUST"
	MAP	Yes		
	GRAHP	Yes		
	PHOTO	Yes		
	TEXT	Yes		
STACKMODE	ON	Yes	Minolta Original	- Refer 4-2-29 STACKMODE"
	OFF	Yes		
OVERRIDEA4	ON	Yes	Minolta Original	- Refer "4-2-30 OVERRIDEA4"
	OFF	Yes		
SHIFTMARGINDIRECTION	TOP	Yes	Minolta Original	- Refer "4-2-31 SHIFTMARGINDIRECTION /SHIFTMARGINVALUE"
	LEFT	Yes		
SHIFTMARGINVALUE	0-20	Yes	Minolta Original	- Refer "4-2-31 SHIFTMARGINDIRECTION /SHIFTMARGINVALUE"
COLORTYPE	RGB8BIT	Yes	Minolta Original	- Refer "4-2-32 COLORTYPE"
	YMCK4BIT	Yes		

Note) Yes: Support in this project, No: NOT support in this project
Bold Italic is Minolta Original Environment Value or Variable.

[History]

2001/03/22	Modify according to NEW HP PJL Manual	M.Murakami
20001/0328	customize for NTS	M.Murakami
2001/03/30	Modify	
	OUTPUTBIN1 → OPTIONALOUTBIN1	
	BACKCOVER → BACKCOVERMODE	
	OFF → NONE, ON → BLANK in BACKCOVERMODE	M.Murakami
2001/04/11	K8,K16 → ROCK8K, ROCK16K	
	NTS dose not support ISO B6,5,4	
	Change NONE to DEFAULT in OPTION	
	Change Parameter in FINISH	
	Change Parameter in CONTINUOUSCOLOR	
	BACKCOVER -> BACKCOVERMODE	
	OFF → NONE in COVERMODE	
	Stack Mode is spec out	M.Murakami
2001/04/12	OPTIONALOUTPUTBIN ---> OPTIONALOUTBIN	M.Murakami
2001/04/26	Change parameter to CREASE from HALFFOLD in FOLDING	M.Murakami
2001/05/17	Delete PostScript, because NTS dose not support PS	M.Murakami
2001/05/17	Add 11x14 inch into PAPER	M.Murakami
2001/05/17	Spec.out of CONTINUOSDENSITY in NTS	M.Murakami
2001/05/17	Delete PRTPSERRS PostScript, because NTS dose not support PS	M.Murakami
2001/05/17	Remove MANUALFEED from COVERTRAY and BACKCOVERTRAY	M.Murakami

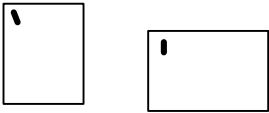
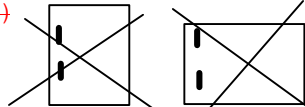

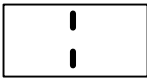
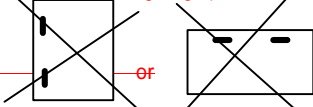
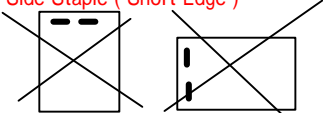
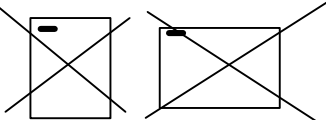
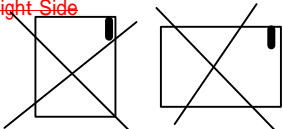
4-2 Details of Minolta Original Environment Variable and value

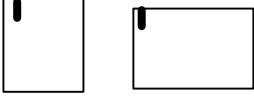
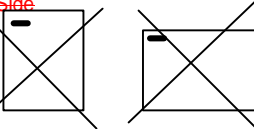
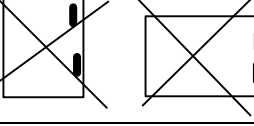
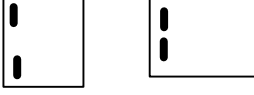
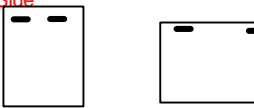
4-2-1 FINISH

[Description]

- This Environment Variable is to specify type of Staple.
- The Environment Value which used this project are followings.

Table 4-2-1-(1) Value of FINSH

Value	Description
NONE	No Staple
STAPLE	Corner Staple 
LEFT	2-Point Side Staple (left) 
UPPER	2-Point Side Staple (Top) 
CENTER	2-Point Side Staple (Center) 
AUTO	2-Point Side Staple (Location is auto) Location (Top or Left) depend on Orientation setting.
LONGEDGE	2-Point Side Staple (Long Edge)  <p>Location of Staple depend on Duplex Setting.</p>
SHORTEDGE	2-Point Side Staple (Short Edge) 
CORNER	Corner Staple 
RIGHT1POINT	1-Point Staple at Right Side 

LEFT1POINT	1-Point Staple at Left Side (This means Staple on Corner) 
UPPER1POINT	1-Point Staple at Top Side 
RIGHT2POINT	2-Point Staple at Right Side 
LEFT2POINT	2-Point Staple at Left Side 
UPPER2POINT	2-Point Staple at Top Side 

[Details]

[1] Default

- Default is "NONE"
- If this command is not included in Print Job or unsupported value is specified,
Device will work as "NONE"

[History]

2001/03/20	Add "RIGHT1POINT" – UPPER2POINT because compatible with Dgr	M.Murakami
2001/03/22	This project support followings "NONE", "STAPLE", "UPPER", "CENTER", "AUTO", "CONNER" because compatible with IJC API	M.Murakami
2001/04/11	NTS use UPPER2POINT, LEFT2POINT, LEFT1POINT instead of LEFT and UPPER after meeting with Mgr	M.Murakami

4-2-2 OUTBIN

[Description]

· This Environment Variable is to specify Output Bin.

Table 4-2-2-(1) Value of OUTBIN

Value	Description
NONE DEFAULT	Exit to System Default Tray
LEFT	Exit to Left Bin
STAPLER	Exit to Staple Bin (HP Compatible)
BIN1	Exit to Bin-1 of mail-bin(HP Compatible)
BIN2	Exit to Bin-2 of mail-bin(HP Compatible)
BIN3	Exit to Bin-3 of mail-bin(HP Compatible)
BIN4	Exit to Bin-4 of mail-bin(HP Compatible)
BIN5	Exit to Bin-5 of mail-bin(HP Compatible)
OUTBIN1	Exit to Bin-1 of mail-bin(HP Compatible)
OUTBIN2	Exit to Bin-2 of mail-bin(HP Compatible)
OUTBIN3	Exit to Bin-3 of mail-bin(HP Compatible)
OUTBIN4	Exit to Bin-4 of mail-bin(HP Compatible)
OUTBIN5	Exit to Bin-5 of mail-bin(HP Compatible)
UPPER	Exit to upper Bin(In Minolta, it called 1st Bin)
JOBTRAY	Exit to Shift Bin
1ST2NDTRAYJOBTRAY	
ELEVATOR	Exit Elevator Tray
OPTIONTRAY	
LOWER	
OPTIONALOUTBIN1 OPTIONALOUTBIN62 OPTIONALOUTBIN10 OPTIONALOUTBIN1 OPTIONALOUTBIN10	Exit to Bin-1....Bin-64 of mail-bin Exit to Bin-1....Bin-10 of mail-bin

[PJL for each Output Option]

· The meanings of value is different for each Output Option.

For More Details, refer **“Appendix F Output Option and PJL”**

[Details]

[1] Default

- Default is **“NONE”** **“DEFAULT”**
- If this command is not included in Print Job or unsupported value is specified, Device will work as **“NONE”** by using **DEFAULT**

[2] PJL for each Output Option

· The meanings of value is different for each Output Option.

For More Details, refer **“Appendix F Output Option and PJL”**

[History]

2001/03/22	This Project support only "NONE", "ELEVATOR", "OPTIONALOUTBINX" because compatible with IJC API	M.Murakami
20001/03/28	In NTS Project, Only "NONE" and "OPTIONALOUTBIN#" is used	M.Murakami
20001/03/30	Modify "OPTIONALOUTBIN#"→"OPTIONALOUTBIN#"	M.Murakami
2001/04/11	NONE→DEFAULT after meeting with Mgr	M.Murakami
2001/04/12	OPTIONALOUTPUTBIN-->OPTIONALOUTBIN	M.Murakami

4-2-3 PERSONALITY

[Description]

- This Environment Variable is to specify Emulation Type.

Table 4-2-3-(1) Value of PERSONALITY

Value	Description
AUTO	Emulation type is auto (Detect by Controller)
PCL	Emulation type is PCL(5c/5e/5.. 6.)
PCLXL	Emulation type is PCL-XL
POSTSCRIPT	Emulation type is PS
ESCP	Emulation Type is Esc/P
NOZOMI	Emulation Type is Nozomi

[Details]

[1] Default

- Default is "AUTO".
- This Item is set on Panel, if Not specified, Panel setting will be used.

[History]

2001/03/22	This Project support followings Emulation PCL5e, PCLXL, PCL5c, PCLXL-c, PS3, NOZOMI	M.Murakami
20001/03/28	In NTS Project, Installed Emulation are PCL5c and PS	M.Murakami
2001/05/17	Spec. out POSTSCRIPT	M.Murakami

4-2-4 MFEEDMEDIA

[Description]

~~-This Environment Variable is to specify Media Type.~~

Table 4-2-4-(1) Value of MFEEDMEDIA

Value	Description
PLAIN	Media type is Plain Paper
THICKPAPER	Media type is Thick Paper
TRANSPARENCY	Media type is Transparency
ENVELOPE	Media type is Envelope
LETTERHEAD	Media type is Letter head

[History]

2001/03/22

This Project use MEDIATYPE(HP Compatible) instead of MFEEDMEDIA M.Murakami

4-2-5 SORTING

[Description]

~~-This Environment Variable is to specify Mechanical Sort Type.~~

Table 4-2-5-(1) Value of SOTING

Value	Description
NONE	None Sort. For example, Bin-1: 1st, 2nd, 3rd, 1st, 2nd, 3rd,
SORT	Sort Mode For example, Bin-1: 1st, 2nd, 3rd, Bin-2: 1st, 2nd, 3rd,
GROUP	Grouping For example, Bin-1: 1st, 1st, 1st,, Bin-2: 2nd, 2nd, 2nd,

[History]

2001/03/22

This Project use "QTY" instead of SORTING

M.Murakam

4-2-6 OHPMODE / **OHPTRAY** / OHPOPTRAY

[Description]

- This Environment Variable is to specify OHP Interleaving.
- Setting of OHP Interleaving is consist of there variable
(OHPMODE / **OHPTRAY** / OHPOPTRAY)

Table 4-2-6-(1) Value of OHPMODE

Value	Description
NONE	No specify OHP Interleaving.
PRINT	Specify OHP interleaving with printing on paper of interleaving
BLANK	Specify OHP interleaving with blank Paper

Table 4-2-6-(2) Value of OHPTRAY

Value	Description
DEFAULT	Feed OHP (Transparency) from Default Tray
AUTO	Feed OHP (Transparency) as Auto (Feed form Tray which condition is same such as Paper Size or Media Type)
MANUALFEED	Feed OHP (Transparency) from Manual Tray
TRAY1	Feed OHP (Transparency) from Tray1
TRAY2	Feed OHP (Transparency) from Tray2
TRAY3	Feed OHP (Transparency) from Tray3
TRAY4	Feed OHP (Transparency) from Tray4
TRAY5	Feed OHP (Transparency) from Tray5
LCC	Feed OHP (Transparency) from LCC
LCT	Feed OHP (Transparency) from LCT
MULTI	Feed OHP (Transparency) from Multi-purpose Tray(MPC)
ENVELOPE	Feed OHP (Transparency) from Envelope Tray

Table 4-2-6-(3) Value of OHPOPTRAY

Value	Description
DEFAULT	Feed Interleaving (Plain Paper) from Default Tray
AUTO	Feed Interleaving (Plain Paper) as Auto (Feed form Tray which condition is same such as Paper Size or Media Type)
MANUALFEED	Feed Interleaving (Plain Paper) from Manual Tray
TRAY1	Feed Interleaving (Plain Paper) from Tray1
TRAY2	Feed Interleaving (Plain Paper) from Tray2
TRAY3	Feed Interleaving (Plain Paper) from Tray3
TRAY4	Feed Interleaving (Plain Paper) from Tray4
TRAY5	Feed Interleaving (Plain Paper) from Tray5
LCC	Feed Interleaving (Plain Paper) from LCC
LCT	Feed Interleaving (Plain Paper) from LCT
MULTI	Feed Interleaving (Plain Paper) from Multi-purpose Tray
ENVELOPE	Feed Interleaving (Plain Paper) from Envelope Tray

[Details]

[1] Default

- Default is **OHPMODE = NONE, OHPOPTRAY = TRAY1---**(*1)

[2] OHPMODE and OHPOPTRAY

- **“OHPMODE”** and **“OHPOPTRAY”** is must be specified at the same time.
 If only **OHPMODE** is specified, Device treats **OHPOPTRAY** is **TRAY1**
 If only **OHPOPTRAY** is specified or **OHPMODE** is **NONE**, Device will ignore **OHPOPTRAY ---**(*1)

[3] Tray for Transparency(OHP)

- Tray for Transparency is specified by PDL command, so PJL is not defined.
---(*1)

[Sample]

```
@PJL SET OHPMODE = PRINT[<CR>]<LF>
@PJL SET OHPTRAY = MANUALFEED[<CR>]<LF>
<ESC> &I2P( Manual Tray: specified Feed Tray by PDL command )
@PJL SET OHPOPTRAY = TRAY1[<CR>]<LF>
----> In this case, Device will work following
-- Print same Image on Interleaving paper
· Feed interleaving paper from Tray1
· Feed OHP paper from Manual Tray
```

```
@PJL SET OHPMODE = ON[<CR>]<LF>
@PJL SET OHPTRAY = MANUALFEED[<CR>]<LF>
<ESC> &I2P( Manual Tray: specified Feed Tray by PDL command )
@PJL SET OHPOPTRAY = TRAY1[<CR>]<LF>
----> In this case, Device will work following
· Feed interleaving paper from Tray1 without printing image.
· Feed OHP paper from Manual Tray
```

[History]

2001/03/22	Remove OHPTRAY Tray for OHP is specified by PDL command, so this command is not necessary	M.Murakami
2001/03/22	Remove AUTO, DEFAULT, ENVELOP from OHPOPTRAY IJC dose not support AUTO, DEFAULT and ENVELOP	M.Murakami
2001/03/22	Add (*1)	
2001/03/27	In NTS project, Feed Trays are Tray1 – Tray4, Manual and LCC.	

Tray1 is Multi-Purpose Tray

4-2-7 COVERMODE / COVERTRAY

[Description]

- This Environment Variable is to specify Cover Page Mode.
- Setting of Cover Page is consist of two variable (COVERMODE / COVERTRAY)

Table 4-2-7-(1) Value of COVERMODE

Value	Description
NONE	No specify Cover Page.
PRINT	Specify Cover Page with printing on paper for Cover Page
BLANK	Specify Cover Page with blank Paper

Table 4-2-7-(2) Value of COVERTRAY

Value	Description
DEFAULT	Feed Cover Page from Default Tray
AUTO	Feed Cover Page as Auto (Feed form Tray which condition is same such as Paper Size or Media Type)
MANUALFEED	Feed Cover Page from Manual Tray
TRAY1	Feed Cover Page from Tray1
TRAY2	Feed Cover Page from Tray2
TRAY3	Feed Cover Page from Tray3
TRAY4	Feed Cover Page from Tray4
TRAY5	Feed Cover Page from Tray5
LCC	Feed Cover Page from LCC
LCT	Feed Cover Page from LCT
MULTI	Feed Cover Page from Multi-purpose Tray
ENVELOPE	Feed Cover Page from Envelope Tray

[Details]

[1] Default

- Default is **COVERMODE = NONE, COVERTRAY = TRAY1---**(*1)

[2] COVERMODE and COVERTRAY

- “**COVERMODE**” and “**COVERTRAY**” is must be specified at the same time.
 If only **COVERMODE** is specified, Device treats **COVERTRAY** is **TRAY1**
 If only **COVERTRAY** is specified or **COVERMODE** is **NONE**, Device will ignore **COVERTRAY ---**(*1)

[Sample]

```
@PJL SET COVERMODE = PRINT[<CR>]<LF>
@PJL SET COVERTRAY = TRAY2[<CR>]<LF>
( specify Tray1 in PCL Command )
----> In this case, Device will work following
    · Print 1st page on Cover Page ( Cover Page is fed from Tray2 )
    · Paper for other page is fed from Tray1

@PJL SET COVERMODE = ON[<CR>]<LF>
```

@PJL SET COVERTRAY = TRAY2[<CR>]<LF>
(specify Tray1 in PCL Command)

----> In this case, Device will work following

- feed Blank Paper from Tray 2 as Cover Page
- Paper from 1st page is fed from Tray1

[Note]

· If following command is specified,

@PJL SET COVERMODE = PRINT[<CR>]<LF>

@PJL SET COVERTRAY = TRAY2[<CR>]<LF>

<ESC> &I1P(First Tray: specified Feed Tray by PDL command)

Device will work following

1st Page(Cover Page): Feed from Tray2

From 2nd Page: Feed From Tray1 ----- (*1)

[History]

2001/03/22	Remove AUTO, DEFAULT, ENVELOP from COVERTRAY IJC dose not support AUTO, DEFAULT and ENVELOP	M.Murakami
2001/03/22	Add (*1)	
2001/03/27	In NTS project, Feed Trays are Tray1 – Tray4, Manual and LCC. Tray1 is Multi-Purpose Tray	
2001/05/17	Remove MANUALFEED	M.Murakami

4-2-8 BACKCOVERMODE / BACKCOVERTRAY

[Description]

- This Environment Variable is to specify Back Cover Page Mode.
- Setting of Cover Page is consist of two variable (BACKCOVERMODE / BACKCOVERTRAY)

Table 4-2-8-(1) Value of BACKCOVERMODE

Value	Description
NONE	No specify Back Cover Page
PRINT	Specify Back Cover Page with printing on paper for Back Cover
BLANK	Specify Back Cover Page with blank Paper

Table 4-2-8-(2) Value of BACKCOVERTRAY

Value	Description
DEFAULT	Feed Back Cover Page from Default Tray
AUTO	Feed Back Cover Page as Auto (Feed form Tray which condition is same such as Paper Size or Media Type)
MANUALFEED	Feed Back Cover Page from Manual Tray
TRAY1	Feed Back Cover Page from Tray1
TRAY2	Feed Back Cover Page from Tray2
TRAY3	Feed Back Cover Page from Tray3
TRAY4	Feed Back Cover Page from Tray4
TRAY5	Feed Back Cover Page from Tray5
LCC	Feed Back Cover Page from LCC
LCT	Feed Back Cover Page from LCT
MULTI	Feed Back Cover Page from Multi-purpose Tray
ENVELOPE	Feed Back Cover Page from Envelope Tray

[Details]

[1] Default

- Default is **BACKCOVERMODE = NONE, BACKCOVERTRAY = TRAY1---**(*1)

[2] BACKCOVERMODE and BACKCOVERTRAY

- “**BACKCOVERMODE**” and “**BACKCOVERTRAY**” is must be specified at the same time.
 If only **BACKCOVERMODE** is specified, Device treats **BACKCOVERTRAY** is **TRAY1**
 If only **BACKCOVERTRAY** is specified or **BACKCOVERMODE** is **NONE**, Device will ignore **BACKCOVERTRAY ---**(*1)

[Sample]

```
@PJL SET BACKCOVERMODE = PRINT[<CR>]<LF>
@PJL SET BACKCOVERTRAY = TRAY2[<CR>]<LF>
```

(specify Tray1 in PCL Command)

----> In this case, Device will work following

- Feed from 1st page from Tray1
- Print last page on Back Cover Page (Cover Page is fed from Tray2)

@PJL SET BACKCOVERMODE = ON[<CR>]<LF>
@PJL SET BACKCOVERTRAY = TRAY2[<CR>]<LF>

(specify Tray1 in PCL Command)

----> In this case, Device will work following

- Feed 1st page to last page from Tray1
- feed Blank Paper from Tray 2 as Back Cover Page

[Note]

· If following command is specified,

@PJL SET BACKCOVERMODE = PRINT[<CR>]<LF>

@PJL SET BACKCOVERTRAY = TRAY2[<CR>]<LF>

<ESC> &I1P(First Tray: specified Feed Tray by PDL command)

Device will work following

From 1st Page(Cover Page): Feed from 1st Tray

Last Page(Back Cover): Feed From Tray2 ----- (*1)

[History]

2001/03/22	Remove AUTO, DEFAULT, ENVELOP from BACKCOVERTRAY IJC dose not support AUTO, DEFAULT and ENVELOP	M.Murakami
2001/03/22	Add (*1)	
2001/03/27	In NTS project, Feed Trays are Tray1 – Tray4, Manual and LCC. Tray1 is Multi-Purpose Tray	M.Murakami
2001/05/17	Remove MANUALFEED	M.Murakami

4-2-9 PUNCH / PUNCHNUM

[Description]

- This Environment Variable is to specify Punch Mode.
- Setting of Punch Mode is consist of two variable (PUNCH / PUNCHNUM)

Table 4-2-9-(1) Value of PUNCH

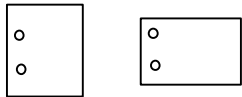
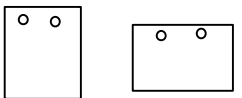
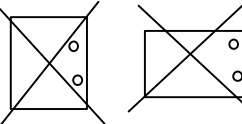
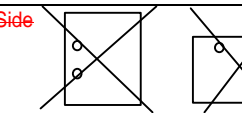
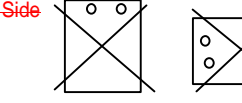



Value	Description
NONE	No specify Punch Mode
LEFT	Punch at Left Side 
UPPER	Punch at Top Side 
RIGHT	Punch to Right Side 
LONGEDGE	Punch at Long Edge Side 
SHORTEDGE	Punch at Short Edge Side 
AUTO	Punch at Left or Top Side (Depend on Orientation setting)

Table 4-2-9-(2) Value of PUNCHNUM

Value	Description
2	2 hole Punch 
3	3 hole Punch 
4	4 hole Punch 

[Details]

[1] Default

- Default is “PUNCH = NONE”, “PUNCHNUM = 2”---(*1)

[2] PUNCH and PUNCHNUM

· “**PUNCH**” and “**PUNCHNUM**” is must be specified at the same time.

If only “**PUNCH**” is specified, Device treats “**PUNCHNUM**” depend on system Default

If only “**PUNCHNUM**” is specified or **PUNCH** is **NONE**, Device will ignore

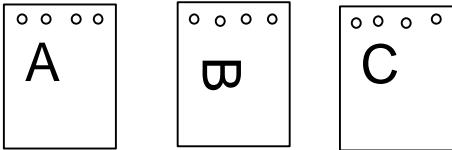
PUNCHNUM ---(*1)

[Sample]

@PJL SET PUNCH = TOP[<CR>]<LF>

@PJL SET PUNCHNUM = 4[<CR>]<LF>

----> The result is following,



[History]

2001/03/22

Remove SHORTEGE, LONGEDGE from PUNCH

IJC dose not support AUTO, DEFAULT and ENVELOP

M.Murakami

4-2-10 USERNAME

[Description]

- This Environment Variable is used to identify User Name for Job.
- This Value is used to manage Print Job. for example , to show User name for specified Print Job on Panel
- The Value is ASCII String and Maximum is up to 864 character.

[Details]

[1] Default

- If "USERNAME" is not specified, Device treats as "blank" --(*2)

[Sample]

@PJL SET USERNAME = xmasa[<CR>]<LF>

[Note]

- In thin project, this value show on Panel as User Name.----(*1)

[History]

2001/03/22	Add (*1)
20001/03/25	Add(*2)

4-2-11 GROUPCODE

[Description]

- This Environment Variable is used to identify ID Number (Department Number) for Print Job.
- When specified ID Number in PJL is different registered ID Number at Device,
Device will not print this job.
- The Value is ~~3 (000-999)~~ 4(0000-9999)Numeric.

[Details]

[1] Default

- If "GROUPCODE" is not specified, Device treats as "9999" "99" ---(*2)

[2] Protection

- If "GROUPCODE" is not correct or out of range, Device will reject that job ---(*2)

[3] less than 1000

- If User enter "99", PJL should be GROUPCODE = 0099 ---(*3)

[Sample]

@PJL SET GROUPCODE = 9992[<CR>]<LF>

[Note]

- In thin project, this value used ID Print (Department Number Print).----(*1)

[History]

2001/03/22	Add (*1)	M.Murakami
2001/03/26	Add (*2)	M.Murakami
2001/04/11	Group Code is 4 digit	
	Add (*3)	M.Murakami

4-2-12 MPTRAYS

[Description]

~~-This Environment Variable is Password for Secure Job.~~

~~-Parameter is encoded.~~

[Sample]

~~@PJL SET MPTRAYS = 1892[<CR>]<LF>~~

[History]

2001/03/22

MP TRAYS is used for Password for secure Job, but Password for Secure Job is define in HP PJL as HODLKEY.

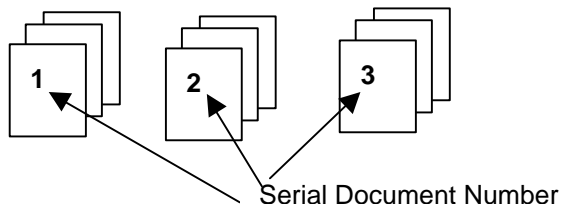
In this project , we use HOLDKEY, refer section "4-2-17"

M.Murakami

4-2-13 CONTINUOUSMODE / CONTINUOSDENSITY / CONTINUOUSNUMBE / COUNTNOUSCOLOR

[Description]

- This Environment Variable is to specify Document Serial Number.
- Document Serial Number is to print number for each Document Set by Device.



- Setting of Document Serial Number is consist of four variables (CONTINUOUSMODE / CONTINUOSDENSITY / CONTINUOUSNUMBER / COUNTNOUSCOLOR)

Table 4-2-13-(1) Value of CONTINUOUSMODE

Value	Description
NONE	No specify to print Document Serial Number.
HEADER	specify to print Document Serial Number to 1st Page.
ALL	specify to print Document Serial Number to all Page.

Table 4-2-13-(2) Value of CONTINUOSDENSITY

Value	Description
NORMAL	Print character of Document Serial Number as normal density.
DARKER	Print character of Document Serial Number as dark density
LIGHTER	Print character of Document Serial Number as light density

Table 4-2-13-(3) Value of CONTINUOUSNUMBER

Value	Description
1to 999	Specify Device should print Serial Number from the number of Document Set

Table 4-2-13-(4) Value of CONTINUOSCOLOR

Value	Description
BLACK	Print character of Document Serial Number in black.
RED	Print character of Document Serial Number in Red.
BLUE	Print character of Document Serial Number in Blue.

Value	Description
1	Black
2	Red
3	Blue
4	Green
5	White
6	Yellow
7	Cyan
8	Magenta
9	Orange
10	Purple
11	Emerald
12	Violet
13	Vermilion
14	Yellowgreen
15	Camel
16	Brown
17	Moss-green
18	Pink
19	Winered
20	Marine-blue
21	Sepia

[Details]

[1] Default----(*1)

· “CONTINOUSMODE”, “CONTINOUSDENSITY”, “CONTINOUSNUMBER”,
and “CONTINOUSCOLOR” must be specified at one set.

· Default is followings

- “CONTINOUSMODE” = NONE,
- ~~“CONTINOUSDENSITY = NORMAL”~~,
- “CONTINOUSNUMBER = 1”,
- ~~“CONTINOUSCOLOR = BLACK”~~.
- “CONTINOUSCOLOR = 1” .

· If “CONTINOUSMODE” is not specified or “NONE”, other value is ignored

[History]

2000/3/26 Add(*1)	M.Murakami
2001/04/11 Change COUNINOUSCOLOR to number from color name after meeting with Mgr	M.Murakami
2001/05/17 Remove CONTINOUSDENSITY because NTS dose not support	M.Murakami

4-2-14 IGNRSIZE

[Description]

~~-This Environment Variable is used to specify whether to ignore Size Error or not.~~

Table 4-2-13-(1) Value of IGNRSIZE

Value	Description
ON	Continue to print when Size Error happen
OFF	Stop to print when Size Error happen.

[History]

2001/03/22 This project dose not support this variable, because there is no Size Error

M.Murakami

4-2-15 IMAGESHIFT / IMAGESHIFTX / IMAGESHIFTY

[Description]

~~-This Environment Variable is to adjust location of physical Page for Paper slightly.~~

~~-Setting of XY-Image shift is consist of three variable~~

~~-(IMAGESHIFT / IMAGESHIFTX / IMAGESHIFTY)~~

Table 4-2-15-(1) Value of IMAGESHIFT

Value	Description
OFF	No specify to adjust XY-Image shift.
ON	specify to adjust XY-Image shift

Table 4-2-15-(1) Value of IMAGESHIFTX

Value	Description
-10 to 10	Adjust value for horizontal direction (Unit is point)

Table 4-2-15-(1) Value of IMAGESHIFTY

Value	Description
-10 to 10	Adjust value for vertical direction (Unit is point)

[History]

2001/03/22 This project dose not support this variable, because Shift margin is done by

PDL Layer

M.Murakami

4-2-16 PAPERTIMEOUT

[Description]

~~-This Environment Variable is to specified Device's action after 15 minutes passed when Load Paper (Paper Size Mis-match)~~

Table 4-2-16-(1) Value of PAPERTIMEOUT

Value	Description
NO	Pause and Keep status of Load Paper.
PROCEED	Device will force to print after 15 minutes
CLEAR	Device will clear print job after 15 minutes

[History]

2001/03/22 This project dose not support this variable, because some waiting job can work even if Load Paper
M.Murakami

4-2-17 JOGGING

[Description]

~~-This Environment Variable is to specified type of Jogging (Shift Tray).~~

Table 4-2-17-(1) Value of JOGGING

Value	Description
NO	No specify Jogging
PAGE	Device will be jogging page by page.
JOB	Device will be jogging Job by Job
PRINTSET	Device will be jogging Document Set by Document Set.

[History]

2001/03/22 This project dose not support this variable, because Jogging is done by IJC depending on Panel Setting
M.Murakami

4-2-21 CUSTOM#WIDTH / CUSTOM#LENGTH

[Description]

- This Environment Variable is to specified length and width of Custom Paper Size.
- When Specified Paper Size in PDL is custom Paper Size,
- this Environment Variable is available.

Table 4-2-21-(1) Value of CUSTOM#WIDTH

Value	Description
0 to 297	Width of Custom paper (Unit is mm)

Table 4-2-21-(2) Value of CUSTOM#LENGTH

Value	Description
0 to 432	Length of Custom paper (Unit is mm)

[History]

2001/03/22 We use "CUSTOMLENGTH","CUSTOMWIDTH"(HP Compatible PJL) in this project
M.Murakami

4-2-22 TRAY1MEDIA

[Description]

- This Environment Variable is to set Media Type for Tray1.
- This Environment Variable is for only DEFAULT and DINQUIRE.

Table 4-2-22-(1) Value of TRAY1MEDIA

Value	Description
PLAIN	Media type for Tray1 is Plain Paper
THICKPAPER	Media type for Tray1 is Thick Paper
TRANSPARENCY	Media type for Tray1 is Transparency
ENVELOPE	Media type for Tray1 is Envelope
LETTERHEAD	Media type for Tray1 is Letter Head

[History]

2001/03/26 Media type of Tray is specified on Panel
M.Murakami

4-2-23 BOOKFORM / MAGAZINEFORM

[Description]

- This Environment Variable is to specify Booklet Mode.
- This Booklet Mode is handle by Copier Controller (Not for Booklet done by Printer Driver or Printer Controller.)
- There is two Environment Variable for Booklet (BOOKFORM / MAGAZINEFORM).

Table 4-2-23-(1) Value of BOOKFORM

Value	Description
NONE	No specify Booklet
LEFT	Left Open Booklet
UP	Upper Open Booklet

Table 4-2-23-(2) Value of MAGAZINEFORM

Value	Description
OFF	No specify Booklet
ON	Booklet

[History]

2001/03/22 Booklet is done by Printer Driver and PDL Layer, so this command is not necessary
M.Murakami

4-2-24 NIN1 / N4

[Description]

- This Environment Variable is to specify N-up Mode.
- This N-up Mode is handle by Copier Controller (Not for N-up done by Printer Driver or Printer Controller.)
- Setting of N-up is consist of two variable (N4 / NIN1)
- The variable of N4 is available when NIN1 = N4.

Table 4-2-24-(1) Value of NIN1

Value	Description
NONE	No specify N-up
N2	Specify 2-up
N4	Specify 4-up

Table 4-2-24-(1) Value of N4

Value	Description
HORZ	Page Layout is horizontal Direction when 4-up.
VERT	Page Layout is vertical Direction when 4-up.

[History]

2001/03/22 N-up is done by Printer Driver and PDL Layer, so this command is not necessary
M.Murakami

4-2-25 SMOOTH

[Description]

- Specify whether using Smoothing or not

[History]

2001/03/22 Spec out in Color Product
M.Murakami

4-2-26 FOLDING

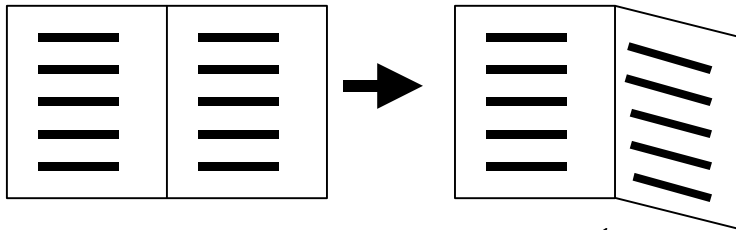
[Description]

· This Environment Variable is to specify Folding Mode.

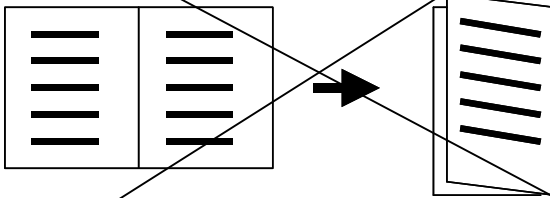
Table 4-2-26-(1) Value of FOLDING

Value	Description
NONE	No Folding
CREASE	See following figure
HALFFOLD	See following figure
ZFOLD	See following figure
ZFOLDA4	See following figure
ZFOLDB5	See following figure
ZFOLDLETTER	See following figure

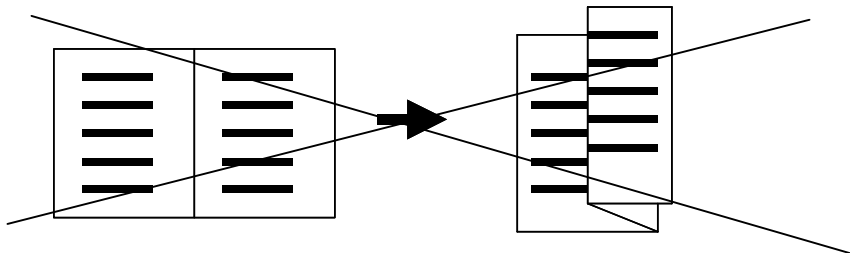
CREASE



HALFFOLD



ZFOLD/ZFOLDA4/ZFOLDB5/ZFOLDLETTER



[Details]

[1] Default

· If "FOLDING" is not specified, Device treats as "NONE" ---(*2)

[History]

2001/03/22	First Edition	M.Murakami
2001/03/27	In NTS project, Only Half-Fold is available.	M.Murakami
2001/04/26	Change Parameter to CREASE from HALFFOLD	M.Murakami

4-2-27 HOLD / HOLDTYPE / HOLDKEY / USERNAME / JOBNAME

[Description]

- This Environment Variable is to specify Job Type such as Proof and Print, Store to HDD Store to Memory and Secure Print.
- To specify Print Job type is required five Environment Variable.
(HOLD / HOLDTYPE / HOLDKEY / USERNAME / JOBNAME)
- These Environment Variable is compatible with HP LJ8550.

Table 4-2-27-(1) Value of HOLD

Value	Description
OFF	Normal Print Job (Do not store Job)
PROOF	Specify Proof and Print
ON	Specify Store to Memory
STORE	Specify Store to HDD

Table 4-2-27-(2) Value of HOLDTYPE

Value	Description
PRIVATE	Specify Secure Job
PUBLIC	Specify NOT Secure Job

Table 4-2-27-(3) Value of HOLDKEY

Value	Description
4 numeric (0000 to 9999)	This value is for Secure Job

Table 4-2-27-(4) Value of JOBNAME

Value	Description
80 character	This value is Job Name for Store to HDD

[Details]

[1] Default---(*1)

- Default is followings
 - “HOLD = NONE”,
 - “HOLDTYPE = ON , ,
 - “HOLDTYPE = “PUBLIC”
 - “HOLDKEY = 0000”
 - “ JOBNAME = <Blank>”

[2] @PJL SET JOBNAME = XXXX and @PJL JOB NAME = XXXX---(*1)

- There are two PJL command to specify Job name.

This section define the rule to treat these command.

Table 4-2-27-(5) Rule of Job Name

@PJL JOBNAME =	@PJL JOB NAME =	Other Condition	Result
XXXXX	<No Specify>	Normal Job	XXXXXX
XXXXX	<No Specify>	Secure Job Store to HDD Store to Memory Proof and Print	YYYYYY XXXXXX
XXXXX	YYYYYYY	Normal Job	YYYYY
XXXXX	YYYYYYY	Secure Job Store to HDD Store to Memory Proof and Print	XXXXX
<No Specify>	YYYYYYY	Normal Job	YYYYYY
<No Specify>	YYYYYYY	Secure Job Store to HDD Store to Memory Proof and Print	YYYYYY

Note) When Job Normal Print, Driver must not send @PJL JOBNAME = XXXX,
Job name should be specified by @PJL JOB NAME = XXXXX”

[3] Secure Job

· If @PJL SET HOLD = ON and @PJL SET HOLDTYPE = PRIVATE,
Device ignore this job.

[Note]

Note1) In this project, following combination is supported.----(*2)

Table 4-2-27-(4) PJL and Function

Function	PJL
Store to Memory	@PJL SET HOLD = ON @PJL SET HOLDTYPE = PUBLIC @JOB-NAME = “jobname string” @PJL SET JOBNAME = “jobname string”
Store to HDD	@PJL SET HOLD = STORE @PJL SET HOLDTYPE = PUBLIC @JOB-NAME = “jobname string” @PJL SET JOBNAME = “jobname string”
Proof and Print	@PJL SET HOLD = PROOF @PJL SET HOLDTYPE = PUBLIC @JOB-NAME = “jobname string” @PJL SET JOBNAME = “jobname string”
Secure Job	@PJL SET HOLD = ON @PJL SET HOLDTYPE = PRIVATE @JOB-NAME = “jobname string” @PJL SET JOBNAME = “jobname string” @PJL SET HOLDKEY = XXXX

If Device received PJL without above combination, Device will treat Normal Job.

[History]

2001/03/22	Add (*1), (*2)	M.Murakami
2001/03/30	Modify	
	@JOB NAME = "jobname string"→@PJL SET JOBNAME ="jobname string"	
	Add @PJL SET HOLDKEY = XXXX	M.Murakami

4-2-28 IMAGEADJUST

[Description]

- This Environment Variable is to specify Color Matching Type Job by Job.
- This Environment Variable is only for Color Matching at Copier Controller.

Table 4-2-28-(1) Value of IMAGEADJUST

Value	Description
AUTO	Use Color Matching profile for Auto (Text and Photo) at Device
MAP	Use Color Matching profile for Map
TEXT	Use Color Matching profile for Text
PHTO	Use Color Matching profile for Photograph
GRAPH	Use Color Matching profile for graph

[Details]

[1] Default

- If “IMAGEADJUST” is not specified, Device treats as “AUTO” ---(*2)

[Note]

- This project change color matching profile job by job according this PJL. ---(*1)
- This PJL is available when data type is RGB 8bit ---(*2)

[History]

2001/03/22

Add (*1), (*2)

M.Murakami

4-2-29 STACKMODE

[Description]

- This Environment Variable is to specify whether Stack Mode or Mail Bin Mode for Mail bin.
- Stack Mode: If capacity is over for Mail Bin, Device will exit paper to next Bin.
- Mail Bin Mode: If capacity is over for Mail Bin, Device will pause until Bin is vacant.

Table 4-2-29-(1) Value of STACKMODE

Value	Description
ON	Stack Mode
OFF	Mail Bin Mode

[1] Default

- If "**STACKMODE**" is not specified, Device treats as "**OFF**".
- This Item is setting on Panel, if PJL is not specified, Device use Panel setting.

[History]

2001/03/22	In this project, Stack mode is set on Panel by Admin so it is not necessary to set remotely	M.Murakami
2001/04/11	Stack Mode is spec. out	M.Murakami

4-2-30 OVERRIDEA4

[Description]

- This Environment Variable is to specify to use A4 when there is not letter size in each Tray or to use Letter when there is not A4 size in each Tray.

Table 4-2-30-(1) Value of OVERRIDEA4

Value	Description
ON	Override A4
OFF	No specify

[Details]

[1] Default

- If "OVERRIDEA4" is not specified, Device treats as "OFF".
This Item is setting on Panel, if PJL is not specified, Device use Panel setting.

[History]

2001/03/22

In this project, Override A4 is set on Panel
so it is not necessary to set remotely

M.Murakami

4-2-31 SHIFTMARGIN DIRECTION / SHITMARGIN VALUE

[Description]

- This Environment Variable is to specify shift margin.
- Setting of XY Image shift is consist of two variable
- (SHIFTMARGIN DIRECTION / SHITMARGIN VALUE)

Table 4-2-31-(1) Value of SHIFTMARGIN DIRECTION

Value	Description
TOP	Shift Margin form Top Side
LEFT	Shift Margin from Left Side

Table 4-2-31-(2) Value of SHITMARGIN VALUE

Value	Description
0 to 20	The shift value (unit is mm.)

[History]

2001/03/22	Shift margin is done by Emulation Layer	M.Murakami
------------	---	------------

4-2-32 COLORTYPE

[Description]

- This Environment Variable is to specify how to treat color data.

Table 4-2-32-(1) Value of COLORTYPE

Value	Description
8BITRGB	Printer Controller treat 8bit RGB Data (Total 24 bit) internally
4BITYMCK	Printer Controller treat 4bit YMCK Data (Total 24 bit)

[Details]

[1] Default

- If “COLORTYPE” is not specified, Device treats as “4BITYMCK”.

[History]

2001/03/22

1st Edition

M.Murakami

4-2-33 AUTOCONT

[Description]

- To specify Auto-continue works or not.
- Minolta Original PJL can specify the paused time until restating.
- Value is follwoigns;

Table 4-2-33-(1) Value of AUTOCONT

Value	Description
OFF	Auto-Continue is Off
20SEC	Device restart to print after 20 second passed
30SEC	Device restart to print after 30 second passed
60SEC	Device restart to print after 60 second passed
90SEC	Device restart to print after 90 second passed
120SEC	Device restart to print after 120 second passed
ON	Device will pause until user force to print.

[History]

2001/03/22

1st Edition

M.Murakami

4-2-34 DUPLEX / BINDING

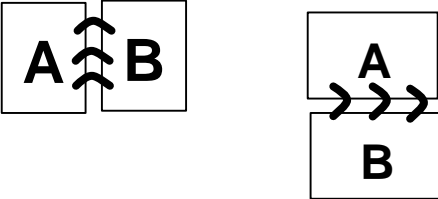
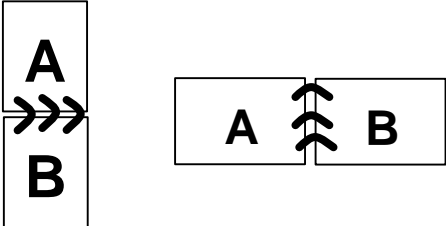
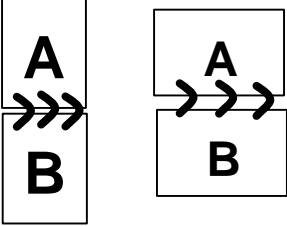
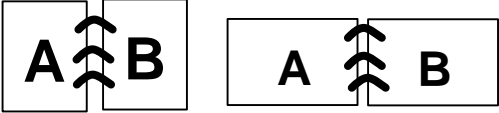
[Description]

· To specify Duplex and Binding Direction.

Table 4-2-34-(1) Value of DUPLEX

Value	Description
OFF	Simplex
ON	Duplex

Table 4-2-34-(2) Value of BINDIG

Value	Description
LONGEDGE	Binding at Long Edge Side 
SHORTEDGE	Binding at Short Edge Side 
TOP	Binding at Top side 
LEFT	Binding at Left Side 

[Details]

[1] Compatible with HP ---(*1)

- “**SHORTEDGE**” and “**LOGEDGE**” are compatible value with HP.
 “**TOP**” and “**LEFT**” are Minolta original value.
 (This values are added to follow Copier setting).
- Device must be able to handle these values.
 This section define how to handle these value.
- If “**SHORTEDGE**” and “**LONGEDGE**” are specified, Driver or Device must convert to “**TOP**” or “**LEFT**”, depending on “**ORIENTAITON**”

Table 4-2-34-(2) How to handle “BINDING” and “DUPLEX”

DUPLEX	BINDING	ORIENTATION	Panel Setting (IJC)
OFF	any	any	Simplex
ON	TOP	any	Top Binding
ON	LEFT	any	Left Binding
ON	LONGEDGE	PORTRAIT	Left Binding
ON	LONGEDGE	LANDSCAPE	Top Binding
ON	SHORTEDGE	PORTRAIT	Top Binding
ON	SHORTEDGE	LANDSCAPE	Left Binding

[2] Default---(*1)

- Default is “**DUPLEX = OFF**” and “**BINDING = LEFT**”

[3] Illegal Operation---(*1)

Table 4-2-34-(3) “Illegal Operation”

DUPLEX	BINDING	Device Operation
<No Specify>	<No Specify>	-Use Panel Setting
<No Specify>	TOP	-If Panel Setting is Simplex, Device will print with simplex. -If Panel setting is Duplex, Device will print with Top Binding Duplex
<No specify>	LEFT	-If Panel Setting is Simplex, Device will print with simplex. -If Panel setting is Duplex, Device will print with Left Binding Duplex
<No specify>	LONGEDGE	-If Panel Setting is Simplex, Device will print with simplex. -If Panel setting is Duplex, Device will print with Duplex. (Binding is depend on Orientation setting)
<No specify>	LONGEDGE	-If Panel Setting is Simplex, Device will print with simplex. -If Panel setting is Duplex, Device will print with Duplex. (Binding is depend on Orientation setting)
ON	<No specify>	-If Panel setting is Top Binding, Device will print with Top Binding Duplex.
OFF	any	-Device will print with Simplex.

Note1) Panel Settings are Simplex, Top Binding Duplex, Left Binding Duplex.

Note2) Duplex can be specified by PDL command, PDL command is high priority than any setting.

[History]

2001/03/22	1st Edition	M.Murakami
2000/03/27	Add (*1)	M.Murakami

4-2-35 DENSITY

[Description]

· To specify Level of Toner Density for B/W

Table 4-2-35-(1) Value of DENSITY

Value	Description
1-5	Specify Toner Density

[History]

2001/03/22	1st Edition	M.Murakami
2001/03/23	Toner Density is not supported this project	M.Murakami

4-2-36 INTRAY#SIZE

[Description]

-To specify Paper Size in Tray or get Paper Size in specified Tray.-

-INTAY#SIZE (# is "1","2","3".....)

-This environment variable is **READ ONLY**---(*1)

Value	Description
LETTER	Inserted Letter in Tray#
LEGAL	Inserted Legal in Tray#
EXECUTIVE	Inserted Executive in Tray#
A3	Inserted A3 in Tray#
B4	Inserted B4 in Tray#
A4	Inserted A4 in Tray#
B5	Inserted B5 in Tray#
A5	Inserted A5 in Tray#
LEDGER	Inserted Ledger in Tray#
COM10	Inserted Envelope Com10 in Tray#
MONARCH	Inserted Envelope Monarch in Tray#
C5	Inserted Envelope C5 in Tray#
DL	Inserted Envelope DL in Tray#
CUSTOM	Inserted Custom Paper in Tray#
JISB4	Inserted JIS-B4 in Tray#
JISB5	Inserted JIS-B5 in Tray#
JPOST	Inserted Japanese Post Card in Tray#
JPOSTD	Inserted Japanese Double Post Card in Tray#
A6	Inserted A6 in Tray#
B6	Inserted B6 in Tray#
INVOICE	Inserted Invoice in Tray#
OPTION	Inserted Letter in Tray#
FLS1	Inserted FLS1 in Tray#
FLS2	Inserted FLS2 in Tray#
FLS3	Inserted FLS3 in Tray#
FLS4	Inserted FLS4 in Tray#

[History]

2001/03/22	1st Edition	M.Murakami
2001/03/27	Add(*1)	M.Murakami
2000/03/27	NTS dose not support Back-Channel	M.Murakami

4-2-37 LANG

[Description]

-To set or get Language of Panel.

Table 4-2-37-(1) Value of LANG

Value	Description
DANISH	
GERMAN	
ENGLISH	
SPANISH	
FRENCH	
ITALIAN	
DUTCH	
NORWAGIAN	
POLISH	
PORTUGUESE	
FINNISH	
SWEDISH	
TUEKISH	
JAPANESE	
CHINESE	
CZECH	

[History]

2001/03/22

1st Edition

M.Murakami

4-2-38 MEDIASOURCE

[Description]

- To Specify Feed Tray

Table 4-2-38-(1) Value of MEDIASOURCE

Value	Description
DEFAULT	- Feed From Default Tray (In this project, it means Panel Setting)
TRAY1	- Feed from Tray1
TRAY2	- Feed from Tray2
TRAY3	- Feed from Tray3
TRAY4	- Feed from Tray4
TRAY5	- Feed from Tray5
ENVELOPE	- Feed from Envelope Tray
LCC	- Feed from LCC
LCT	- Feed from LCC
MULTI	- Feed from Multi-purpose Tray
MANUALFEED	- Feed from Manual Tray
AUTO	- Feed Tray is automatic

[Details]

[1] Default---(*1)

- Default is "AUTO"
- If no specified by PJL, Panel Setting will be Default.

[History]

2001/03/22	1st Edition	M.Murakami
2001/03/27	Add (*1)	M.Murakami
2001/03/27	In NTS project, Feed Trays are Tray1 – Tray4, Manual and LCC. Tray1 is Multi-Purpose Tray	M.Murakami

4-2-39 MEDIATYPE

[Description]

- To specify Media Type

Table 4-2-39-(1) Value of MEDIATYPE

Value	Description
TRANSPARENCY	- Media Type is Transparency
GLOSSY	- Media Type is Glossy
PAPER	- Media Type is Plain Paper
THICK1	- Media Type is Thick Paper (Type 1)
THICK2	- Media Type is Thick Paper (Type 2)
ENVELOPE	- Media Type is Envelope
TICK3	- Media Type is Thick Paper (Type 3)
LABEL	- Media Type is Label

[Details]

[1] Default---(*1)

- Default is "PAPER"
- If no specified by PJL, Panel Setting will be Default.

[History]

2001/03/22	1st Edition	M.Murakami
2001/03/28	NTS dose not support Glossy	M.Murakami

4-2-40 QTY

[Description]

- To specify collate on and the number of Document Set
- Value is followings

Table 4-2-40-(1) Value of QTY

Value	Description
1-999	The Number of Document Set

- In this project, QTY also means sorting and non-Sort and Grouping ----(*1)

Table 4-2-40-(1) Value of QTY

QTY	How to Device work	Note
1	-Device will print 1 Document set (This value is no meanings)	
more than 1	- Device will print plural Document sets, and treat as Non-Sort	- Non-Sort is following 1,2,3,...,12,3,...,12,3,...,12,3
<No specify>	- Device will print as Grouping.	- Grouping is followings 1.1.1.11...2,2222.....33333

[Note]

[History]

2001/03/22	1st Edition	M.Murakami
20001/03/27	Add (*1)	M.Murakami

4-2-41 PAPER

[Description]

· To specify Paper Size.

Table 4-2-41-(1) Value of PAPER

Value	Description
LETTER	Paper Size is Letter
LEGAL	Paper Size is Legal
EXECUTIVE	Paper Size is Executive
A3	Paper Size is A3
A3WIDE	Paper Size is A3-Wide
B4	Paper Size is ISO-B4
A4	Paper Size is A4
B5	Paper Size is ISO-B5
A5	Paper Size is A5
LEDGER	Paper Size is Ledger
COM10	Paper Size is Envelope-Com10
MONARCH	Paper Size is Envelope-Monarch
C5	Paper Size is Envelope-C5
DL	Paper Size is Envelope-DL
CUSTOM	Paper Size is Custom Paper
JISB4	Paper Size is JIS-B4
JISB5	Paper Size is JIS-B5
JISB6	Paper Size is JIS-B6
JPOST	Paper Size is Japanese Post Card
JPOSTD	Paper Size is Japanese Double Post Card
A6	Paper Size is A6
B6	Paper Size is ISO-B6
INVOICE	Paper Size is Invoice
OPTION	
FLS1	Paper Size is FLS1
FLS2	Paper Size is FLS2
FLS3	Paper Size is FLS3
FLS4	Paper Size is FLS4
11X14	11 x 14 inch
ROCK8K	Paper Size is K8
ROCK16K	Paper Size is K16

[Note]

[History]

2001/03/22	1st Edition	M.Murakami
2001/05/17	Add 11x14 inch	M.Murakami

4-2-42 PAPERLENGTH / PAPERWIDTH

[Description]

· To Specify Length and Width for Custom Paper

Table 4-2-42-(1) Value of PAPERLENGTH

Value	Description
0 to 432000	· Length of Custom Paper (UNIT is 1/720 th)

Table 4-2-42-(2) Value of PAPERWIDTH

Value	Description
0 to 432000	· Width of Custom Paper (UNIT is 1/720 th)

[Details]

[1] PAPER ,PAPERLENGTH and PAPERWIDTH

· This value is available when only "PAPER = CUSTOM" ---(*1)

[Note]

[History]

2001/03/22	1st Edition	M.Murakami
2001/03/27	Add (*1)	M.Murakami

4-2-43 FONTSOURCE / FONTNUMBER / SYMSET

[Description]

- To specify kind of Font.
- Typeface is specified “**FONTSOURCE**” and “**FONTNUMBER**”

Table 4-2-43-(1) FONTSOURCE and FONTNUMBER

FONTSOURCE	FONTNUMBER	Description
	0	Courier
	1	CG Times
	2	CG Times Bold
	3	CG Times Italic
	4	CG Times Bold Italic
	5	CG Omega
	6	CG Omega Bold
	7	CG Omega Italic
	8	CG Omega Bold Italic
	9	Coronet
	10	Clarendon Condensed
	11	Univers Medium
	12	Univers Bold
	13	Univers Italic
	14	Univers Bold Italic
	15	Univers Medium Condensed
	16	Univers Bold Condensed
	17	Univers Medium Condensed Italic
	18	Univers Bold Condensed Italic
	19	AntiqueOlive
	20	Antique Olive Bold
	21	AntiqueOlive Italic
	22	Garmond Antiqua
	23	Garmond Halbeftt
	24	Garmond Kursiv
	25	Garmond Kursiv Halbefett
	26	Marigold
	27	Alvertus Medium
	28	Alvertus Extra Bold
	29	Arial
	30	Arial Bold
	31	Arial Italic
	32	Arial Bold Italic
	33	Times New
	34	Times New Bold
	35	Times New Italic
	36	Times New Bold Italic
	37	Symbol
	38	Wingdings
	39	Courier Bold
	40	Courier Italic
	41	Courier Bold Italic
	42	Letter Gothic
	43	Letter Gothic Bold
	44	Letter Gothic Italic

I	45	Line Printer
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Table 4-2-43-(2) SYMBSET

Value	Description
DESKTOP	- HP Compatible (Desktop)
ISO4	- HP Compatible (ISO4: United Kingdom)
ISO6	- HP Compatible (ISO6 ASCII)
ISO11	- HP Compatible (ISO11: Swedish)
ISO15	- HP Compatible (ISO15: Italian)
ISO17	- HP Compatible (ISO17: Spanish)
ISO21	- HP Compatible (ISO21: German)
ISO60	- HP Compatible (ISO60: Norwegian VI)
ISO69	- HP Compatible (ISO69: French)
ISOL1	- HP Compatible (ISO 8859/1 Latin1)
ISOL2	- HP Compatible (ISO 8859/2 Latin2)
ISOL5	- HP Compatible (ISO 8859/9 Latin5)
ISOL6	- HP Compatible (ISO8859/10 Latin6)
LEGAL	- HP Compatible (Legal)
MATH8	- HP Compatible (Math-8)
MCTEXT	- HP Compatible (MC Text)
MSPUBL	- HP Compatible (Microsoft Publisher)
PC775	- HP Compatible (PC775)
PC8	- HP Compatible (PC-8 Code Page437)
PC850	- HP Compatible (PC-850 Multilingual)
PC852	- HP Compatible (PC-852 Latin2)
PC8DN	- HP Compatible (PC-8 Danish/Norwegian)
PC8TK	- HP Compatible (PC-8 Turkish)
PC1004	- HP Compatible (PC-1004)
PIFONT	- HP Compatible (Pi Font)
PSMATH	- HP Compatible (PS Math)
PSTEXT	- HP Compatible (PS Text)
ROMAN8	- HP Compatible (Roman-8)
VNINTL	- HP Compatible (Vertura International)
VNMATH	- HP Compatible (Vertura Math)
VNUS	- HP Compatible (Vertura US)
WIN30	- HP Compatible (Windows3.0 Latin1)
WINBALT	- HP Compatible (Windows Baltic)
WINL1	- HP Compatible (Windows3.1 Latin1)
WINL2	- HP Compatible (Windows3.1 Latin2)
WINL5	- HP Compatible (Windows3.1 Latin5)
WIN31J	- HP Compatible
PC866	- Minolta Original (PC-866 for Russian)

[Note]

[History]

2001/03/22	1st Edition	M.Murakami
2001/05/17	NTS dose not support Windwos3.1 Japanese	M.Murakami
2001/05/17	Change Assigned Number for Typeface keep compatible with HP	
2001/05/17	Add Line Printer	M.Murakami

5. Support List for DEFAULT / SET / INQUIRE / DINQUIRE

· In this section, Supported environment Variable for DFAULT / SET / INQUIRE / DINQUIRE is defined

Table 5-(1) Supported Variable for each Command

Environment Variable	DEFAULT	SET	DINQUIRE	INQUIRE	Note
AUTOCONT	No	No	No	No	
AUTOSELECT	No	No	No	No	
BINDING	Yes	Yes	Yes	Yes	
BITSPERPIXEL	No	No	No	No	
CLEARABLEWARNINGS	No	No	No	No	
CONTEXTSWITCH	No	TBD	No	TBD	
COPIES	Yes	Yes	Yes	Yes	
COMPRESSRASTERSTRANGE	No	No	No	No	
COURIER	No	No	No	No	
CPLOCK	No	No	No	No	
DENSITY	No	No	No	No	
DISKLOCK	No	No	No	No	
DUPLEX	Yes	Yes	Yes	Yes	
ECNOMODE	No	No	No	No	
FINISH	No	Yes	No	Yes	
FORMLINES	Yes	Yes	Yes	Yes	
HOLD	No	Yes	No	Yes	
HOLDKEY	No	Yes	No	Yes	
HOLDTYPE	No	Yes	No	Yes	
IMAGEADAPT	No	No	No	No	
IMAGELOCATION	No	No	No	No	
INTRAY1	No	No	No	No	
INTRAY2	No	No	No	No	
INTRAY3	No	No	No	No	
INTRAY4	No	No	No	No	
INTRAY5	No	No	No	No	
INTRAY1SIZE	No	No	No	No	
INTRAY#SIZE (#.2,3,4,5)	No	No	No	No	
IOBUFFER	No	No	No	No	
IOSIZE	No	No	No	No	
JOBATTR	No	No	No	No	
JOBID	No	No	No	No	
JOBIDVALUE	No	No	No	No	
JOBNAME	No	No	No	No	
JBOFFSET	No	No	No	No	
LANG	No	No	No	No	
LOWTONER	No	No	No	No	
MANUALFEED	No	No	No	No	
MARGINS	No	No	No	No	
MEDIASOURCE	No Yes	No Yes	No Yes	No	
MEDIATYPE	No	Yes	No	Yes	
MIRROR	No	No	No	No	
MPTRAY	No	No	No	No	
ORIENTATION	Yes	Yes	Yes	Yes	
OUTBIN	No	Yes	No	Yes	
OUTBINPROCESS	No	No	No	No	

OUTLINEPOINTSIZ	No	No	No	No
OUTTNER	No	No	No	No
PAGELNGTHACUURACY	No	No	No	No
PAGEPROTECT	No	No	No	No
PALETTESOURCE	No	No	No	No
PAPER	Yes	Yes	Yes	Yes
PAPERLENGTH	No	Yes	No	Yes
PAPERWIDTH	No	Yes	No	Yes
PARALLEL	No	No	No	No
PASSWORD	No	No	No	No
PERSONALITY	Yes	Yes	Yes	Yes
PLANESINUSE	No	No	No	No
POWERSAVE	No	No	No	No
POWERSAVETIME	No	No	No	No
PRINTQUALITY	No	No	No	No
QTY	No	Yes	No	Yes
REFILLDURATION	No	No	No	No
REFILLTHRESHOLD	No	No	No	No
REFILLTYPE	No	No	No	No
RENDERMODE	No	No	No	No
REPRINT	No	No	No	No
RESOLUTION	No	No	No	No
RESOURCESAVE	No	No	No	No
RESOURCESAVESIZE	No	No	No	No
RET	No	No	No	No
TIMEOUT	No	No	No	No
WIDEA4	Yes	Yes	Yes	Yes
FONTSOURCE	Yes	Yes	Yes	Yes
FONTNUMBER	Yes	Yes	Yes	Yes
PITCH	Yes	Yes	Yes	Yes
PTSIZE	Yes	Yes	Yes	Yes
SYMSET	Yes	Yes	Yes	Yes
ADOBEMBT	No	No	No	No
JAMRECOVERY	No	No	No	No
PRTPSERRS	Yes	Yes	Yes	Yes
MFEEDMEDIA	No	No	No	No
SORTING	No	Yes	No	Yes
OHPMODE	No	Yes	No	Yes
OHPTRAY	No	Yes	No	Yes
OHPOPTRAY	No	Yes	No	Yes
COVERMODE	No	Yes	No	Yes
COVERTRAY	No	Yes	No	Yes
BACKCOVER	No	Yes	No	Yes
BACKCOVERTRAY	No	Yes	No	Yes
PUNCH	No	Yes	No	Yes
USERNAME	No	Yes	No	Yes
GROUPCODE	No	Yes	No	Yes
MPTRAYS	No	No	No	No
CONTINUOUSMODE	No	Yes	No	Yes
CONTINUOUSDENSITY	No	Yes	No	Yes
CONTINUOUSNUMBER	No	Yes	No	Yes
CONTINUOUSCOLOR	No	Yes	No	Yes
IGNRSIZE	No	No	No	No
IMAGESHIFT	No	No	No	No
IMAGESHIFTX	No	No	No	No
IMAGESHIFTY	No	No	No	No
PAPERTIMEOUT	No	No	No	No

JOGGING	No	No	No	No	
PRIORITYFEED	No	No	No	No	
MARKETAREA	No	No	No	No	
TESTPRINT	No	No	No	No	
CUSTOM#WIDTH	No	Yes	No	Yes	
CUSTOM#LENGTH	No	Yes	No	Yes	
TRAY1MEDIA	No	No	No	No	
BOOKFORM	No	No	No	No	
DOCNAME	No	No	No	No	
FORMWIDTH	No	Yes	No	Yes	
MAGAZINEFORM	No	No	No	No	
N4	No	No	No	No	
NIN1	No	No	No	No	
SMOOTH	No	No	No	No	
PUNCHNUM	No	Yes	No	Yes	
FOLDING	No	Yes	No	Yes	
USERNAME	No	Yes	No	Yes	
JOBNAME	No	Yes	No	Yes	
IMAGEADJUST	No	Yes	No	Yes	
STACKMODE	No Yes	Yes	No Yes	Yes	
VERRIDEA4	Yes	Yes	Yes	Yes	
SHIFTMARGINIRECTION	No	Yes	No	Yes	
SHIFTMARGINVALUE	No	Yes	No	Yes	

Note) Yes: Support in this project, No: NOT support in this project

[History]

2000/03/26	Remove DEFAULT DEFAULT setting is done by Panel and PSL. and Remote Control Panel is not provided in this project	M.Murakami
2000/03/26	Remove INQUIRE, DINQUIRE User can check Default setting by PSL or Panel, and Remote Control Panel is not provided in this project. So, this command is no meanings	M.Murakami
2000/03/28	NTS dose not support Back-Channel and Default	M.Murakami
2001/04/26	Support DEFAULT, DINQUIRE command	M.Murakami
2001/05/17	CONTINOUSDENSITY, SORT,PRTPSERRS are spec out.	M.Murakami
2001/05/17	MEDIASOURCE is supported	M.Murakami
2001/05/17	MEDIATYPE in DEFAULT is not supported	M.Murakami

6. Kernel Commands

6-1 Universal Exit Language (UEL)

[Description]

- Exit current printer language and returns to PJL.

[Format]

```
<ESC>%-12345X<CR><LF>
```

[Details]

- This Command is compatible with HP.

Refer "*Printer Job Language Technical Reference Manual*"

6-2 COMMENT

[Description]

- Causes PJL to accept the command line as a comment.

[Format]

```
@PJL COMMENT remarks<CR><LF>
```

[Parameter]

Table 6-1-(1) Parameter of COMMENT

Parameter	Range	Requirement	Category	Note
<i>remarks</i>	ASCII character 33 through 255 and <WS>, starting with a printable character	Support	HP Compatible	

[Details]

- This Command is compatible with HP.
Refer "Printer Job Language Technical Reference Manual"
- This command and parameter is no useful at Device side.

6-3 ENTER

[Description]

- Selects a printer language for processing the current job.

[Format]

@PJL ENTER LANGUAGE = *personality*<CR><LF>

[Parameter]

Table 6-3-(1) Parameter of ENTER

Parameter	Item	Requirement	Category	Note
<i>Personality</i>	PCL	Support	HP Compatible	
	PCLXL	Support	-HP Compatible	
	POSTSCRIPT	Support	-HP Compatible	
	NOZOMI	Support	Minolta Original	

[Details]

- This Command is compatible with HP.
Refer "Printer Job Language Technical Reference Manual"

[History]

2001/05/17

NTS dose not support PCL6 and PostScript

M.Murakami

7. Job Separation Commands

7-1 JOB

[Description]

- Informs a printer of the start of a print job, resets the page count, allows naming of the job, supports non-printing mode for printing portions of jobs.

Where supported, it adds PJL password security.

[Format]

```
@PJL JOB [NAME = "Job Name"]
      [ START = first page]
      [END = last Page]
      [PASSWORD = number]<CR><LF>
```

[Parameter]

Table 7-1-(1) Parameter of JOB

Parameter	Range or item	Requirement	Category	Note
NAME = "job name"	ASCII 33 thru 255, <SP> ,<HT>	Support	HP Compatible	· This parameter is shown on Panel at Device as JOB Name.
FISRT = first page	1 to 2,147,483,647	Not Support	-HP Compatible	
END = last page	1 to 2,147,483,647	Not Support	-HP Compatible	
PASSWORD = -number	0 to 65,535	Not Support	Minolta Original	

[Details]

- This Command is compatible with HP.
Refer "Printer Job Language Technical Reference Manual"
- Localization for Job name ----- [No need to localize.](#)

[History]

2001/05/17 [No need to localize for Job Name](#) [Murakami](#)

7-2 EOJ

[Description]

- Tells printer the print job is complete, resets the page count.

[Format]

```
@PJL EOJ [NAME = "Job Name"] <CR><LF>
```

[Parameter]

Table 7-2-(1) Parameter of EOJ

Parameter	Range or item	Requirement	Category	Note
NAME = "job name"	ASCII 33 thru 255, <SP> ,<HT>	Support	HP Compatible	· This parameter is no useful at Device.

[Details]

- This Command is compatible with HP.
Refer "Printer Job Language Technical Reference Manual" .

8. Environment Commands

8-1 DFAULT

[Description]

- Sets default value for environment variables.

[Format]

```
@PJL DFAULT [LPRAM: personality | IPARAM: port]  
variable = value <CR><LF>  
----- or -----  
@PJL DFAULT variable = value <CR><LF>
```

[Parameter]

- Refer “4. *Support Environment Variable*”

[Details]

- This Command is compatible with HP.
Refer “Printer Job Language Technical Reference Manual” .

[History]

2000/04/26

Support DFAULT Command

M.Murakami

8-2 SET

[Description]

- Sets an environment variable to a specified value for the duration of PJL job.

[Format]

```
@PJL SET [LPRAM: personality | IPARAM: port]  
variable = value <CR><LF>  
----- or -----  
@PJL DEFAULT variable = value <CR><LF>
```

[Parameter]

- Refer “4. *Support Environment Variable*”

[Details]

- This Command is compatible with HP.
Refer “Printer Job Language Technical Reference Manual” .

8-3 INITIALIZE

[Description]

- ~~-Resets current and default PJL variable to factory default value~~
- ~~-This PJL Command is not supported.~~

8-4 RESET

- ~~-Resets current PJL variables to default value~~
- ~~-This PJL Command is not supported.~~

9. Status Readback Commands

9-1. INQUIRE

[Description]

~~Requests the current value for a specified environment variable.~~

[Format]

~~Request~~

```
@PJL INQUIRE [LPRAM: personality | IPARAM: port]  
variable
```

~~Response~~

```
@PJL INQUIRE [LPRAM: personality | IPARAM: port]  
variable <CR><LF>  
value<CR><LF>  
<FF>
```

[Parameter]

~~Refer "4. Support Environment Variable"~~

[Details]

~~This Command is compatible with HP.~~

~~Refer "Printer Job Language Technical Reference Manual".~~

[History]

2000/03/28
2001/05/17

NTS dose not support Back-Channel and Default
INQUIRE is no meanings in NTS

M.Murakami
M.Murakami

9-2. DINQUIRE

[Description]

- Requests the default value for a specified environment variable.

[Format]

Request

```
@PJL DINQUIRE [LPRAM: personality | IPARAM: port]  
variable
```

Response

```
@PJL DINQUIRE [LPRAM: personality | IPARAM: port]  
variable <CR><LF>  
value<CR><LF>  
<FF>
```

[Parameter]

- Refer “4. *Support Environment Variable*”

[Details]

- This Command is compatible with HP.

Refer “Printer Job Language Technical Reference Manual” .

[History]

2000/03/28
2000/04/26

NTS dose not support Back-Channel and Default
Support DEIQUIRE Command to send back
Default setting

M.Murakami

M.Murakami

9-3. ECHO

[Description]

- Returns the <words> portion of the command to the host computer

[Format]

Request

```
@PJL ECHO [ <words> ] [ <CR> ] <LF>
```

Response

```
@PJL ECHO [ <words> ] [ <CR> ] <LF>  
<FF>
```

[Parameter]

<words> : ASCII 33 thru 255, <SP>, <HT>

[Details]

- This Command is compatible with HP.

Refer "Printer Job Language Technical Reference Manual" .

[History]

2000/03/28
2001/04/26

NTS dose not support Back-Channel and Default
Support ECHO fro Read-Back-Channel Function

M.Murakami
M.Murakami

9-4. INFO

[Description]

- Returns the <words> portion of the command to the host computer

[Format]

Request

```
@PJL INFO category [ <CR> ] <LF>
```

Response

```
@PJL INFO category <CR><LF>
[1 or more lines of printable character or <WS> followed by <CR><LF> ]
<FF>
```

[Parameter]

Table 9-4-(1) Parameter of INFO

category	Requirement	Response
ID	Yes	- Printer Controller return Product Name
CONFIG	Yes	- Printer Controller returns various configuration
FILESYS	No	- Printer Controller returns various file name in HDD.
MEMORY	Yes	- Printer Controller returns installed Memory capacity.
PAGECOUNT	No	- Printer Controller returns How much pages are processed
STATUS	Yes	- Printer Controller returns Device Status
VARIABLE	Yes	- Printer Controller returns setting for specified variable
USTATUS	No	- Printer Controller returns setting for USTATUS

[Details]

[1] @PJL INFO ID

<Request>

```
@PJL INFO ID <CR><LF>
```

<Response>

```
@PJL INFO ID <CR><LF>
"Product Name"<CR><LF>
<FF>
```

<Item>

- Product Name is still TBD.

[2] @PJL INFO CONFIG

Request

@PJL INFO CONFIG <CR><LF>

Response

```

@PJL INFO CONFIG <CR><LF>
IN TRAYS [ X ENUMERATED] <CR><LF>
    INTRAY1 MP<CR><LF>
    INTRAY2 PC<CR><LF>
    .
    .
OUT TRAYS [X ENUMERATED] <CR><LF>
    MAIL BIN1 <CR><LF>
    MAIL BIN2 <CR><LF>
    .
    .
PAPERS [X ENUMERATED]
    LETTER<CR><LF>
    LEGAL<CR><LF>
    .
    .
LANGUAGE [X ENUMERATED]
    PCL<CR><LF>
    POSTSCRIPT<CR><LF>
    .
MEMORY = XXXXX<CR><LF>
DUPLEX = INSTALLED<CR><LF>
<FF>
    
```

<Item>

Table 9-4-(1) Item for Response INFO CONFIG

Item	Enumerated	Parameter	Note
IN TRAYS	<Depend on Installed Tray>	INTRAY1 INTRAY2 INTRAY3 INTRAY4 LCC	-Parameter will be changed according to Installed Tray.
OUT TRAY	<Depend On Installed Output Option>	---Mail bin is installed--- MAIL BIN1 MAIL BIN2 MAIL BIN3 MAIL BIN4 MAIL BIN5 MAIL BIN6 MAIL BIN7 MAIL BIN8 MAIL BIN9 MAIL BIN10 ---Other--- NORMAL FACEDOWN	-Parameter will be changed according to Installed Output Option

PAPERS	26 ENUMERATED	LETTER LEGAL EXECUTIVE A3 A3WIDE A4 B5 A5 LEDGER COM10 MONARCH C5 DL JISB4 JISB5 JISB6 JPOST A6 INVOICE FLS1 FLS2 FLS3 FLS4 11X14 ROCK8K ROCK16K	
LANGUAGE	1 ENUMERATED	PCL	
MEMORY	---	Unit is BYTE	
DUPLEX	---	INSTALLED NOT INSTALLED	
STAPLE	---	INSTALLED NOT INSTALLED	
PUNCH	---	INSTALLED NOT INSTALLED	
FOLDING	----	INSTALLED NOT INSTALLED	

[2] @PJL INFO STATUS

Request

```
@PJL INFO STATUS <CR><LF>
```

Response

```
@PJL INFO STATUS <CR><LF>
CODE = 10001<CR><LF>
DISPLAY = READY<CR><LF>
ONLINE = TRUE<CR><LF>
<FF>
```

<Item>

-Refer "Appendix A: PJL Status Code"

-With regard to response item, refer "9-5 USTATUS"

[History]

2000/03/28	NTS dose not support Back-Channel and Default	M.Murakami
2001/04/26	Support INFO command to support Read-Back-Channel	M.Murakami
2001/04/26	Response item of CONFIG is not defined yet	M.Murakami
2001/05/17	Define details response Parameter and Item	M.Murakami

9-5. USTATUS

[Description]

- Allows printer to send unsolicited status message for device status changes, end-of-job status, and pages printed.
- Status can be sent at specified time intervals

[Format]

Request

```
@PJL USTATUS variable = value [ <CR> ] <LF>
```

Response

```
@PJL USTATUS variable <CR><LF>
[1 or more lines of printable character or <WS> followed by <CR><LF> ]
<FF>
```

[Parameter]

Table 9-5-(1) Parameter of USTATUS

Variable	Value	Requirement	Response
DEVICE	ON VERBOSE OFF	Yes	
JOB	ON OFF	No	
PAGE	ON OFF	No	
TIMES		No	

[Response Parameter]

```
@PJL USTATUS DEVICE<CR><LF>
CODE = 10001<CR><LF>
DISPLAY ="READY"
ONLINE = TRUE<CR><LF>
<FF>
```

Table 9-5-(2) Response Parameter of USTATUS

Status	Code	DISPLAY	ONLINE
Ready	10001	"READY"	TRUE
Jam	40000	"PAPER JAM"	TRUE
Paper Empty	41000	"PAPER EMPTY"	TRUE
Cover Open	40021	"COVER OPEN"	TRUE
Fatal	50000	"FATAL ERROR"	FALSE
Toner Empty	40038	"RONER EMPTY"	TRUE

Toner Low	10006	“TONER LOW!”	TRUE
Power Save	40000	“POWER SAVE”	TRUE
Warming up	10003	“WARMING UP”	TRUE
Printing	10023	“PRINTING”	TRUE
General Error	10050	“ERROR”	TRUE

[Details]

- This Command is compatible with HP.

Refer “Printer Job Language Technical Reference Manual” .

[History]

2000/03/28
 2001/04/26
 2001/05/17

NTS dose not support Back-Channel and Default
 Support USTATUS Command for Read-Back-Channel
 Add Response Parameter of Status

M.Murakami
 M.Murakami
 M.Murakami

9-6. USTATUSOFF

[Description]

- Turns off all unsolicited status.

[Format]

```
@PJL USTATUOFF [ <CR> ] <LF>
```

[Parameter]

There is no parameter in this command.

[Details]

- This Command is compatible with HP.

Refer "Printer Job Language Technical Reference Manual" .

[History]

2000/03/28
2001/04/26

NTS dose not support Back-Channel and Default
Support USTATUSOFF Command for Read-Back-Channel

M.Murakami
M.Murakami

10. Device Attendance Commands

~~Device Attendance Commands Group is not supported in this project.~~

11. ~~PJL FILE System Commands~~

~~This project dose not support PJL FILE System commands~~

· A Parts of FILE System command is supported for Font Download

See "Appendix E"

[History]

2001/03/26

Remove PJL File System Command

HP4000 or 8000 sires dose not support File System PJL command.

This project also dose not support these command.

With regard to Operating Download Font, We use original protocol

M.Murakami

Appendix A: PJL Status Code

· In this Appendix, PJL Status code for USTATUS and INOF command is defined.

Table A-(1) PJL Status Code

Status	Code	Note
Ready	10001	-Device is ready
Jam	40000	-Paper Jam (Do not care about Location of Paper Jam)
Paper Empty	41000	-Paper Empty (No Paper) (Do not care about Location of Paper Empty)
Cover Open	40021	-Cover Open (Do not care about Location) -ADF Cover open is not relation to Cover Open
Fatal	50000	-FATAL (Do not care about details Code)
Toner Empty	40038	
Toner Low	10006	
Power Save	40000	
Warming up	10003	
Printing	10023	-Printing/Processing
General Error	10050	-Other Error

Appendix B: List of Compatible with IJC

· In this Appendix, Compatible list o between parameter of IJC and PJL command is defined.

Table B-(1) CMD_ModeSetForPrintJob

Item	Parameter	Value	PJL	Note
Job ID	ul_JobID		----	- Job ID is generated by IJC - Printer can App get from MIO
User Name	sc_UserName[API_MaxString]		@PJL SET USERNAME = xxxxxxxx	
Job Name	sc_JobName[API_MaxString];		@PJL JOB NAME = "xxxxxxx" or @PJL SET JOBNAME = "xxxxxxx"	- Printer Controller can support both PJL. - If both is specified, JOBNAME is used
Number of Print	ss_PrintNumber		@PJL SET COPIES = XXXX or @PJL SET QTY = xxx or <PDL>	This item may be override by PDL.
Setting Bind Direction	bl_BindingDirection	True	@PJL SET SHIFTMARGIN DIRECTION = TOP or <PDL>	This item may be override by PDL.
		False	@PJL SET SHIFTMARGIN DIRECTION = LEFT or <PDL>	This item may be override by PDL.
Amount of File Margin Shift	sf_BindShiftValue		@PJL SET SHIFTMARGIN VALUE = xx or <PDL>	
Setting Mail Bin Number	ss_MailBin	0	@PJL SET OUTPUT = NONE @PJL SET OUTPUT = DEFAULT or No specified or <PDL>	This item may be override by PDL.
		1	@PJL SET OUTPUT = OUTPUTBIN1 @PJL SET OUTBIN = OPTIONALOUTBIN1 or <PDL>	
		2	@PJL SET OUTPUT = OUTPUTBIN2 @PJL SET OUTBIN = OPTIONALOUTBIN2 or <PDL>	
		3	@PJL SET OUTPUT = OUTPUTBIN3 @PJL SET OUTBIN = OPTIONALOUTBIN3 or <PDL>	
		4	@PJL SET OUTPUT = OUTPUTBIN4 @PJL SET OUTBIN = OPTIONALOUTBIN4 or <PDL>	
		5	@PJL SET OUTPUT = OUTPUTBIN5 @PJL SET OUTBIN = OPTIONALOUTBIN5	

			or <PDL>
		6	@PJL SET OUTPUT = OUTPUTBIN6 @PJL SET OUTBIN = OPTIONALOUTBIN6 or <PDL>
		7	@PJL SET OUTPUT = OUTPUTBIN7 @PJL SET OUTBIN = OPTIONALOUTBIN7 or <PDL>
		8	@PJL SET OUTPUT = OUTPUTBIN8 @PJL SET OUTBIN = OPTIONALOUTBIN8 or <PDL>
		9	@PJL SET OUTPUT = OUTPUTBIN9 @PJL SET OUTBIN = OPTIONALOUTBIN9 or <PDL>
		10	@PJL SET OUTPUT = OUTPUTBIN10 @PJL SET OUTBIN = OPTIONALOUTBIN10 or <PDL>
Stack Mode ON	bl_StackModeOn	True	@PJL SET STACKMODE = ON
		False	@PJL SET STACKMODE = OFF
Booklet Mode ON	bl_BookletModeOn	True	@PJL SET MAGAZINEFOEM = ON
		False	@PJL SET MAGAZINEFOEM = OFF
Print Front Cover ModeON	bl_TopCoverModeOn	True	@PJL SET COVERMODE = PRINT or @PJL SET COVERMODE = BLANKON
		False	@PJL SET COVERMODE = OFF @PJL SET COVERMODE = NONE
Print Image in Front Cover	bl_TopCoverImagePrint	True	@PJL SET COVERMODE = PRINT
		False	@PJL SET COVERMODE =BLANKON
Setting Feed Tray for Front Cover	en_TopCoverFeedTray	EN_FeedTrayAuto	-----
		EN_FeedTray_1	@PJL COVERTRAY = TRAY1
		EN_FeedTray_2	@PJL COVERTRAY = TRAY2
		EN_FeedTray_3	@PJL COVERTRAY = TRAY3
		EN_FeedTray_4	@PJL COVERTRAY = TRAY4
		EN_FeedTray_5	@PJL COVERTRAY = TRAY5
		EN_FeedTray_6	@PJL COVERTRAY = TRAY6
		EN_FeedTray_7	@PJL COVERTRAY = TRAY7
		EN_FeedTray_8	@PJL COVERTRAY = TRAY8
Printing Back Cover Mode ON	bl_BackCoverModeOn	True	@PJL SET BACKCOVERMODE = PRINT or @PJL SET BACKCOVERMODE = BLANKON
		False	@PJL SET BACKCOVERMODE = OFF @PJL SET BACKCOVERMODE = NONE
Print Image in Back Cover	bl_BackCoverImagePrint	True	@PJL SET BACKCOVERMODE = PRINT
		False	@PJL SET BACKCOVERMODE =BLNAK

Setting Feed Tray for Back Cover		EN_FeedTrayAuto	-----	
		EN_FeedTray_1	@PJL BACKCOVERTRAY = TRAY1	
		EN_FeedTray_2	@PJL BACKCOVERTRAY = TRAY2	
		EN_FeedTray_3	@PJL BACKCOVERTRAY = TRAY3	
		EN_FeedTray_4	@PJL BACKCOVERTRAY = TRAY4	
		EN_FeedTray_5	@PJL BACKCOVERTRAY = TRAY5	
		EN_FeedTray_6	@PJL BACKCOVERTRAY = TRAY6	
		EN_FeedTray_7	@PJL BACKCOVERTRAY = TRAY7	
		EN_FeedTray_8	@PJL BACKCOVERTRAY = TRAY8	
Page Insertion ON	bl_InsModeOn	True	----	
		False	----	
Print Image in Page Insertion Mode	bl_InsImagePrint	True	----	
		False	-----	
Setting Feed Tray for Page Insertion		EN_FeedTrayAuto	-----	
		EN_FeedTray_1	-----	
		EN_FeedTray_2	-----	
		EN_FeedTray_3	-----	
		EN_FeedTray_4	-----	
		EN_FeedTray_5	-----	
		EN_FeedTray_6	-----	
		EN_FeedTray_7	-----	
		EN_FeedTray_8	-----	
OHP Page Insertion Mode On	bl_OHPInsModeOn	True	@PJL SET OHPMODE = PRINT or @PJL SET OHPMODE = BLANK	
		False	@PJL SET OHPMODE = OFFNONE	
Print Image in OHP Page Insertion Mode	bl_OHPInsImagePrint	True	@PJL SET OHPMODE = PRINT	
		False	@PJL SET OHPMODE = BLANK	
Setting Feed Tray for OHP Page Insertion		EN_FeedTrayAuto	-----	
		EN_FeedTray_1	@PJL OHPOPTRAY = TRAY1	
		EN_FeedTray_2	@PJL OHPOPTRAY= TRAY2	
		EN_FeedTray_3	@PJL OHPOPTRAY = TRAY3	
		EN_FeedTray_4	@PJL OHPOPTRAY = TRAY4	
		EN_FeedTray_5	@PJL OHPOPTRAY= TRAY5	
		EN_FeedTray_6	@PJL OHPOPTRAY= TRAY6	
		EN_FeedTray_7	@PJL OHPOPTRAY= TRAY7	
		EN_FeedTray_8	@PJL OHPOPTRAY= TRAY8	
Serial Print ON	bl_SerialNumPrintOn	True	@PJL SET CONTINUOUSMODE = HEADER or @PJL SET CONTINUOUSMODE = ALL	
		False	@PJL SET CONTINUOUSMODE = NONE	
Setting Serial print page	bl_SerialNumAllPage	True	@PJL SET CONTINUOUSMODE = ALL	
		False	@PJL SET CONTINUOUSMODE = HEADER	
Number for Starting Printing Serial Number	ss_SerialNumStartNumb		@PJL SET CONTINUOUSNUMBER = xxxx	

Print Serial Number Letter Density	EN_SerialNumDensity	EN_SerialNumDensity_Normal	@PJL SET CONTINUOUSDENSITY = NORMAL
		EN_SerialNumDensity_Light	@PJL SET CONTINUOUSDENSITY = LIGHTER
		EN_SerialNumDensity_Darker	@PJL SET CONTINUOUSDENSITY = DARKER
Print Serial Number Letter Color	EN_SerialNumColor	EN_SerialNumColor_Black	@PJL SET CONTINUOUSCOLOR = BLACK @PJL SET CONTINUOUSCOLOR = 1
		EN_SerialNumColor_Red	@PJL SET CONTINUOUSCOLOR = RED @PJL SET CONTINUOUSCOLOR = 2
		EN_SerialNumColor_Blue	@PJL SET CONTINUOUSCOLOR = BLUE @PJL SET CONTINUOUSCOLOR = 3
Department Number	sc_DepartmentNumber[4]		@PJL SET GROUPCODE = xxxx
Password	sc_Password[4]		@PJL SET HOLDKEY = xxxx
Billing Meter Count Off	bl_CountOff	True	----
		False	----
Image Adjust Parameter	ss_ImageAdjust[10]		
Nin1 Mode	EN_CopySave	EN_CopySave1in1	-----
		EN_CopySave2in1	-----
		EN_CopySave4in1	-----
4in1 Mode	EN_4in1PageOrder	EN_4in1PageOrder1	-----
		EN_4in1PageOrder2	-----
Sort Mode	EN_SortMode	EN_NoneSort	@PJL SET SORTING = NONE @PJL SET QTY = X
		EN_Sort	@PJL SET SORTING = SORT
		EN_Grouping	@PJL SET SORTING = GROUPING No specify @PJL SET QTY or <PDL>
Staple Mode	EN_StapleMode	EN_StapleNon	@PJL SET FINISH = NONE
		EN_StapleCorner	@PJL SET FINISH = STAPLE or @PJL SET FINISH = LEFT1POINT
		EN_StapleSideAuto	@PJL SET FINISH = AUTO
		EN_StapleSideLeft	@PJL SET FINISH = LEFT @PJL SET FINISH = LEFT2POINT
		EN_StapleSideTop	@PJL SET FINISH = UPPER @PJL SET FNISH =UPPER2POINT
		EN_StapleCenter	@PJL SET FINISH = CENTER
Punch Mode	EN_PunchMode	EN_PunchNon	@PJL SET PUNCH = NONE
		EN_Punch2HoleAuto	@PJL SET PUNCH = AUTO and @PJL SET PUNCHNUM = 2
		EN_Punch2HoleLeft	@PJL SET PUNCH = LEFT and @PJL SET PUNCHNUM = 2
		EN_Punch2HoleTop	@PJL SET PUNCH = UPPER and @PJL SET PUNCHNUM = 2
		EN_Punch3HoleAuto	@PJL SET PUNCH = AUTO and @PJL SET PUNCHNUM = 3

		EN_Punch3HoleLeft	@PJL SET PUNCH = LEFT and @PJL SET PUNCHNUM = 3
		EN_Punch3HoleTop	@PJL SET PUNCH = UPPER and @PJL SET PUNCHNUM = 3
		EN_Punch4HoleAuto	@PJL SET PUNCH = AUTO and @PJL SET PUNCHNUM = 4
		EN_Punch4HoleLeft	@PJL SET PUNCH = LEFT and @PJL SET PUNCHNUM = 4
		EN_Punch4HoleTop	@PJL SET PUNCH = UPPER and @PJL SET PUNCHNUM = 4
Fold Mode	EN_FoldMode	EN_FoldNon	@PJL SET FOLDING = NONE
		EN_FoldZShaped_A4	@PJL SET FOLDING = ZFOLDA4
		EN_FoldZShaped_B5	@PJL SET FOLDING = ZFOLDB5
		EN_FoldZShaped_Leter	@PJL SET FOLDING = ZFOLDLETTER
		EN_FoldCenter	@PJL SET FOLDING = CREASE
		EN_FoldMagazine	@PJL SET FOLDING = HALFHOLD @PJL SET FOLDING = CREASE
Print Job Kind		EN_PrintJob_Print	-----
		EN_PrintJob_IFax	-----
		EN_PrintJob_Secure	@PJL SET HOLD = ON and @PJL SET HOLDTYPE = PRIVATE
		EN_PrintJob_SpoolAtMemory	@PJL SET HOLD = ON and @PJL SET HOLDTYPE = PUBLIC
		EN_PrintJob_SpoolAtHDD	@PJL SET HOLD = STORE and @PJL SET HOLDTYPE = PUBLIC
		EN_PrintJob_Proof	@PJL SET HOLD = PROOF
		EN_PrintJob_ErrorReport	-----
		EN_PrintJob_Information	-----
		EN_PrintJob_IPP	-----
		EN_PrintJob_NetworkCopy	-----
Duplex Mode	EN_DuplexMode	EN_Duplex_OFF	-----
		EN_Duplex_Auto	-----
		EN_Duplex_Manual	Always This parameter

Table B-(2) CMD_SetImageInfo

Item	Parameter	Value	PJL	Note
Job ID	ul_JobID		-----	
Image Page Number	ss_PageNo		-----	
Top Margin Line Number	ss_TopMagineLineNumber		-----	
Image Dot Size for Sub Scanning Direction	ss_ImageDotSize_Y		-----	

Image Dot Size for Main Scanning Direction	ss_ImageDotSize_X		-----	
Transfer Dot Size for Sub Scanning Direction	ss_TransDotSize_Y		-----	
Transfer Dot Size for Main Scanning Direction	ss_TransDotSize_X		-----	
Paper Size for Sub Scanning Direction	sf_PaperSize_Y		@PJL SET PAPER = XX or @PJL SET CUSTOMLENGTH =XX or <PDL>	Printer Contller msut translate to actual Size (Unit Dot) from Size Code. This PJL may override by PDL Command
Paper Size for Main Scanning Direction	sf_PaperSize_X		@PJL SET PAPER = XX or @PJL SET CUSTOMWIDTH =XX or <PDL>	Printer Contller msut translate to actual Size (Unit Dot) from Size Code. This PJL may override by PDL Command
Setting No Printing	bl_NoPrint	True	-----	
		False	-----	
Number of Image Band	ss_BandNumber		-----	
Number of Image Band Line	ss_BandLineNumber[AP _PrintMaxBand]		-----	
Setting Page Insertion Documents	bl_InsPaperOn	True	-----	
		False	-----	
Feed Tray	en_FeedTray	EN_FeedTrayAuto	@PJL SET MEDIASOURCE = AUTO or <PDL>	This PJL may override by PDL Command
		EN_FeedTray_1	@PJL SET MEDIASOURCE = TRAY1 or <PDL>	
		EN_FeedTray_2	@PJL SET MEDIASOURCE = TRAY2 or <PDL>	
		EN_FeedTray_3	@PJL SET MEDIASOURCE = TRAY3 or <PDL>	
		EN_FeedTray_4	@PJL SET MEDIASOURCE = TRAY4 or <PDL>	
		EN_FeedTray_5	@PJL SET MEDIASOURCE = TRAY5 or <PDL>	
		EN_FeedTray_6	@PJL SET MEDIASOURCE = TRAY6 or <PDL>	
		EN_FeedTray_7	@PJL SET MEDIASOURCE = TRAY7 or <PDL>	
		EN_FeedTray_8	@PJL SET MEDIASOURCE = TRAY8 or <PDL>	

Setting document Kind	EN_SetPaperKind	EN_SetNormal	@PJL SET MEDIATYPE = PAPER or <PDL>	This PJL may override by PDL Command
		EN_SetNormalBackSide	-----	
		EN_SetThick1	@PJL SET MEDIATYPE = THICK1 or <PDL>	
		EN_SetThick1BackSide	-----	
		EN_SetThick2	@PJL SET MEDIATYPE = THICK2 or <PDL>	
		EN_SetThick2BackSide	-----	
		EN_SetOHP	@PJL SET MEDIATYPE = TRANSPARENCY or <PDL>	
Color Mode	en_ColorMode	EN_FullColor	----	
		EN_Black	----	
Image Color Information	en_ImageColorInfo	EN_ImageColor_RGB	-----	
		EN_ImageColor_RGB_1	-----	
		EN_ImageColor_RGB_2	-----	
		EN_ImageColor_Lab	-----	
		EN_ImageColor_Lab_1	-----	
		EN_ImageColor_Lab_2	-----	
		EN_ImageColor_YMCK	-----	
		EN_ImageColor_YMCK_1	-----	
		EN_ImageColor_YMCK_2	-----	
		EN_ImageColor_Light	-----	
		EN_ImageColor_Light_1	-----	
		EN_ImageColor_Light_2	-----	
		EN_ImageColor_Density	-----	
		EN_ImageColor_Density_1	-----	
		EN_ImageColor_Density_2	-----	
Image Digit Information	en_ImageDigitInfo	EN_ImageDigit_1bit	-----	
		EN_ImageDigit_4bit	-----	
		EN_ImageDigit_8bit	-----	
Image Compression Information	en_ImageCompressInfo	EN_ImageCompress_Non	-----	
		EN_ImageCompress_JBIG	-----	
		EN_ImageCompress_BTC333AndJBIG	-----	
		EN_ImageCompress_BTC322AndJBIG	-----	
Image Turning Angle	en_ImageRotation	EN_ImageRot_0	@PJL SET ORIENTATION = PORTRAIT or <PDL>	This PJL may override by PDL Command
		EN_ImageRot_90	@PJL SET ORIENTATION = LANDSCAPE or <PDL>	
		EN_ImageRot_180	<PDL>	
		EN_ImageRot_270	<PDL>	
Print Face	EN_PrintFace	EN_PrintFace_Single	@PJL SET DUPLEX = XXX @PJL SET BIND = XXX or PDL	

	EN_PrintFace_FaceSide	@PJL SET DUPLEX = XXX @PJL SET BIND = XXX or PDL
	EN_PrintFace_BackSide	@PJL SET DUPLEX = XXX @PJL SET BIND = XXX or PDL

Table B-(3) api_SetAdminInfo_1()

Item	Parameter	Value	PJL	Note
Paper Size for Sub Scanning Direction	EN_SET_PaperSize_Y		@PJL DEFAULT PAPER = XX	Printer Controller must translate to actual Size (Unit Dot) from Size Code. This PJL may override by PDL Command
Paper Size for Main Scanning Direction	EN_SET_PaperSize_X		@PJL DEFAULT PAPER = XX	Printer Controller must translate to actual Size (Unit Dot) from Size Code. This PJL may override by PDL Command
Feed Tray	EN_SET_FeedTray	EN_FeedTrayAuto	@PJL DEFAULT MEDIASOURCE = AUTO	
		EN_FeedTray_1	@PJL DEFAULT MEDIASOURCE = TRAY1	
		EN_FeedTray_2	@PJL DEFAULT MEDIASOURCE = TRAY2	
		EN_FeedTray_3	@PJL DEFAULT MEDIASOURCE = TRAY3	
		EN_FeedTray_4	@PJL DEFAULT MEDIASOURCE = TRAY4	
		EN_FeedTray_5	@PJL DEFAULT MEDIASOURCE = TRAY5	
		EN_FeedTray_6	TBD	
		EN_FeedTray_7	TBD	
		EN_FeedTray_8	TBD	
Setting Mail Bin Number	EN_SET_MailBin	0	----	Output Tray is not set by PJL. This setting is done by Panel, because Setting item is relation to Copier, I-FAX
		1	----	
		2	----	
		3	----	
		4	----	
		5	----	
		6	----	
		7	----	
		8	----	
		9	----	
		10	----	

Setting Typeface Number	EN_SET_TypefaceNum ber	0 to 45	@PJL DEFAULT LPARAM : PCL FONTSOURCE = I and @PJL DEFAULT LPARAM : PCL FONTNUMBER = XX (0 to 45)	0 - Courier 1 - CG Times 2 - CG Times Bd 3 - CG Times It 4 - CG Times Bdlt 5 - CG Omega 6 - CG Omega Bd 7 - CG Omega It 8 - CG Omega Bdlt 9 - Coronet 10 - Clarendon Cd 11 - Univers Md 12 - Univers Bd 13 - Univers Mdl 14 - Univers Bdlt 15 - Univers MdCd 16 - Univers BdCd 17 - Univers MdCdl 18 - Univers BdCdl 19 - AntiqueOlv 20 - AntiqueOlv Bd 21 - AntiqueOlv It 22 - Garmond Antiqua 23 - Garmond Hlb 24 - Garmond Krsv 25 - Garmond KrsvHlb 26 - Marigold 27 - Alvertus Md 28 - Alvertus Xb 29 - Arial 30 - Arial Bd 31 - Arial It 32 - Arial Bdlt 33 - Times New 34 - Times New Bd 35 - Times New It 36 - Times New Bdlt 37 - Symbol 38 - Windings 39 - Courier It 40 - Courier Bd 41 - Courier Bdlt 42 - LetterGothic 43 - LetterGothic It 44 - LetterGothic Bd
----------------------------	---------------------------	---------	--	---

[History]

2001/03/26

Modify
 OUTPUTBIN→.OPTIONALOUTBIN
 OUTPUT→OUTBIN
 BLANKON→BLANK
 OFF in COVERMODE/BACKCOVERMODE→NONE

2001/04/26

Change Parameter to CREASE from HALFFOLD in FOLDING

M.Murakami
 M.Murakami

Appendix C: PDL Command

C-1 Paper Size Command

Paper Size	PCL 5e and PCL5c	PCL XL and PCL-XLe	Postscript	Nozomi
A3 Wide	<ESC>&I130A	eA3Wide (85)	TBD	Depend on Destiny
A3	<ESC>&I27A	eA3Paper (5)	TBD	Depend on Destiny
B4	<ESC>&I46A	eAJB4Paper (10)	TBD	Depend on Destiny
A4	<ESC>&I26A	eA4Paper (2)	TBD	Depend on Destiny
JIS-B5	<ESC>&I45A	eAJB5Paper (11)	TBD	Depend on Destiny
A5	<ESC>&I25A	eA5Paper (16)	TBD	Depend on Destiny
A6	<ESC>&I24A	eA6Paper (17)	TBD	Depend on Destiny
JIS-B6	<ESC>&I44A	eAJB6Paper (18)	TBD	Depend on Destiny
Invoice	<ESC>&I15A	eInvoice (64)	TBD	Depend on Destiny
Letter	<ESC>&I2A	eLetterPaper (0)	TBD	Depend on Destiny
Legal	<ESC>&I3A	eLegalPaper (1)	TBD	Depend on Destiny
11x14	<ESC>&I5A	e11x14 (96)	TBD	Depend on Destiny
ledger	<ESC>&I6A	eLedgerPaper (4)	TBD	Depend on Destiny
Executive	<ESC>&I1A	eExecPaper (3)	TBD	Depend on Destiny
Envelop B5	<ESC>&I100A	eB5Envelope (12)	TBD	Depend on Destiny
Envelop Com10	<ESC>&I81A	eCOM10Envelope (6)	TBD	Depend on Destiny
Envelop C5	<ESC>&I91A	eC5Envelope (8)	TBD	Depend on Destiny
Envelop DL	<ESC>&I90A	eDLEnvelope (9)	TBD	Depend on Destiny
Envelop Monarch	<ESC>&I80A	eMonarchEnvelope (7)	TBD	Depend on Destiny
Post Card	<ESC>&I71A	eJPostcard (14)	TBD	Depend on Destiny
Double Post Card	<ESC>&I72A	eDoublePostCard (15)	TBD	Depend on Destiny
FLS1	<ESC>&I10A	eFLS1 (80)	TBD	Depend on Destiny
FLS2	<ESC>&I120A	eFLS2 (81)	TBD	Depend on Destiny
FLS3	<ESC>&I121A	eFLS3 (82)	TBD	Depend on Destiny
FLS4	<ESC>&I122A	eFLS4 (83)	TBD	Depend on Destiny
Custom Paper	<ESC>&I101A	---	TBD	Depend on Destiny
K16	<ESC>&I17A	JIS8K (19)	TBD	Depend on Destiny
K18	<ESC>&I19A	JIS16K (20)	TBD	Depend on Destiny
Default Paper Size		eDefaultPaperSize (96)	TBD	Depend on Destiny

Note1) *Italic Bold is Minolta Original*

C-2 Media Type Command

Media	PCL 5e and PCL5c	PCL XL and PCL XLc	Postscript	Nozomi
Bond Paper	<ESC>&5WdBond	"Bond"	TBD	Depend on Destiny
Plain Paper	<ESC>&6WdPlain	"Plain"	TBD	Depend on Destiny
Color Paper	<ESC>&6WdColor	"Color"	TBD	Depend on Destiny
Rough Paper	<ESC>&6WdRough	"Rough"	TBD	Depend on Destiny
Heavy Paper	<ESC>&6WdHeavy	"Heavy"	TBD	Depend on Destiny
Gloss	<ESC>&6WdGloss	"Gloss"	TBD	Depend on Destiny
Label	<ESC>&7WdLabels	"Label"	TBD	Depend on Destiny
Vellum	<ESC>&7WdVellum	"Vellum"	TBD	Depend on Destiny
Default	<ESC>&8WdDefault	"Default"	TBD	Depend on Destiny
Recycled Paper	<ESC>&9WdRyecled	"Recycled"	TBD	Depend on Destiny
Letter Head	<ESC>&11WdLetterHead	"Letter Head"	TBD	Depend on Destiny
Card Stock	<ESC>&11WdCard Stock	"Card Stock"	TBD	Depend on Destiny
Cards Stock	<ESC>&10WdCarsStock	"Cards Stock"	TBD	Depend on Destiny
Pre-Punched	<ESC>&11WdPrepunched	"Pre-Punched"	TBD	Depend on Destiny
Pre-Printed	<ESC>&11WdPreprinted	"Pre-Printed"	TBD	Depend on Destiny
Transparency	<ESC>&13WdTransparency	"Transparency"	TBD	Depend on Destiny
Custom Type	<ESC>#WdCustomType	----	TBD	Depend on Destiny
Thick Paper (Type1)	<ESC>7WdThick1	"Thick1"	TBD	Depend on Destiny
Thick Paper (Type2)	ESC>7WdThick2	"Thick2"	TBD	Depend on Destiny
Thick Paper (Type3)	ESC>7WdThick3	"Thick3"	TBD	Depend on Destiny

Note1) Italic Bold is Minolta Original

C-3 Paper Source Command

Media	PCL 5e and PCL5c	PCL XL and PCL XLc	Postscript	Nozomi
Default Tray		eDefaultSource (0)	TBD	Depend on Destiny
Current Tray	<ESC>&I0H		TBD	Depend on Destiny
1st Cassette	<ESC>&I1H	eUpperCassette(4)	TBD	Depend on Destiny
Manual Feed Tray	<ESC>&I2H	eManualFeed (2)	TBD	Depend on Destiny
Manual Feed Tray	<ESC>&I3H	eManualFeed (2)	TBD	Depend on Destiny
MultiPurpose Tray	<ESC>&I4H	eMultiPurposeTray (3)	TBD	Depend on Destiny
2nd Cassette	<ESC>&I5H	eLowerCassette(5)	TBD	Depend on Destiny
Envelope Feeder	<ESC>&I6H	eEnvelopeTray (6)	TBD	Depend on Destiny
Auto Select	<ESC>&I7H	eAutoSelect (4)	TBD	Depend on Destiny
3rd Cassette	<ESC>&I8H	eThirdCassette (7)	TBD	Depend on Destiny
HCI Trays	<ESC>&I20H	----	TBD	Depend on Destiny
LCC	<ESC>&I30H	eMLTLCC (252)	TBD	Depend on Destiny
LCT	<ESC>&I31H	eMLTLCT (251)	TBD	Depend on Destiny
Tray1	<ESC>&I1H	eTray1 (224)	TBD	Depend on Destiny
Tray2	<ESC>&I5H	eTray2 (225)	TBD	Depend on Destiny
Tray3	<ESC>&I8H	eTray3 (226)	TBD	Depend on Destiny
Tray4	<ESC>&I20H	eTray4 (227)	TBD	Depend on Destiny
Tray5	<ESC>&I21H	eTray5 (228)	TBD	Depend on Destiny

Note1) Italic Bold is Minolta Original

C-4 Output Bin Command

Media	PCL 5e and PCL5c	PCL XL and PCL XLc	Postscript	Nozomi
Automatic	<ESC>&u0G	-----	TBD	Depend on Destiny
Bin #1	<ESC>&u1G	eMailBin1 (5)	TBD	Depend on Destiny
Bin #2	<ESC>&u2G	eMailBin2 (6)	TBD	Depend on Destiny
Bin #3	<ESC>&u3G	eMailBin3 (7)	TBD	Depend on Destiny
Bin #4	<ESC>&u4G	eMailBin4 (8)	TBD	Depend on Destiny
Bin #5	<ESC>&u5G	eMailBin5 (9)	TBD	Depend on Destiny
Bin #6	<ESC>&u6G	eMailBin6 (10)	TBD	Depend on Destiny
Bin #7	<ESC>&u7G	eMailBin7 (11)	TBD	Depend on Destiny
Bin #8	<ESC>&u8G	eMailBin8 (12)	TBD	Depend on Destiny
Bin #9	<ESC>&u9G	eMailBin9 (13)	TBD	Depend on Destiny
Bin #10	<ESC>&u10G	eMailBin10 (14)	TBD	Depend on Destiny
Bin #11	<ESC>&u11G	eMailBin11 (15)	TBD	Depend on Destiny
Default Bin	----	eDefaultDestination (0)	TBD	Depend on Destiny
Face Down Bin	----	eFaceDownBin (1)	TBD	Depend on Destiny
Face Up Bin	----	eFaceUpBin (2)	TBD	Depend on Destiny
Job Offset Bin	----	eJobOffsetBin (3)	TBD	Depend on Destiny

Note1) *Italic Bold is Minolta Original*

C-5 Simplex / Duplex Print

Media	PCL 5e and PCL5c	PCL XL and PCL XLc	Postscript	Nozomi
Simplex	<ESC>&l0S	SimplexPageMode = eSimplexFrontSide	TBD	Depend on Destiny
Log edge Binding	<ESC>&l1S	DuplexPageMode = eDuplexHorizontalBinding	TBD	Depend on Destiny
short edge Binding	<ESC>&l2S	DuplexPageMode = eDuplexVerticalBinding	TBD	Depend on Destiny

Note1) *Italic Bold is Minolta Original*

C-6 Page Orientation

Media	PCL 5e and PCL5c	PCL XL and PCL XLc	Postscript	Nozomi
Portrait	<ESC>&l0O	ePortraitOrientation (0)	TBD	Depend on Destiny
Landscape	<ESC>&l1O	eLandscapeOrientation (1)	TBD	Depend on Destiny
Reversed Portrait	<ESC>&l2O	eReversePortrait (2)	TBD	Depend on Destiny
Reversed Landscape	<ESC>&l3O	eReverseLandscape (3)	TBD	Depend on Destiny
Default Orientation	-----	eDefaultOrientation (4)	TBD	Depend on Destiny

Note1) *Italic Bold is Minolta Original*

Appendix D: Download Font and Macro

· This section define how to register, use and delete Download Font and Macro by PJL and PCL Command.

AppendixD-1: Download Font

[1] Download Font to HDD

·Download Font to HDD is specified by followings command.

```
<ESC>%-12345X
@PJL FSDOWNLOAD FORMAT:BINARY NAME="<pathname>"
SIZE=<integer> [,<CR>]<LF>
<Binary Data>
.
.
<ESC>%-12345X
```

<pathname> : This parameter is "Specified Directory Name + File Name"

For example, NAME="Wingdings 3 (TrueType)"

In NTS, this string is "<file name>",

because Directory on HDD is fixed

<Integer> : The size variable indicates the number of bytes in the file to be downloaded

The size indicates the number of bytes immediately following the <LF> to the next UEL

<Binary Data> : This is the binary file data to be downloaded , such as font files

(This binary data is PCL command to download True Type Font such as <ESC>)S3318W)

[2] Use Downloaded Font

·User can specified Downloaded Font by followings Command.

```
<ESC>(#X -- ( # is Font Number )
```

****: This Number is printed on PCL Font List Page.

For example, PCL Font List Page indicate Windings is "1234",

command to specify this font should be "<ESC>(1234X"

[3] Delete Downloaded Font

·User can delete Download Font on HDD by sending followings command.

```
<ESC>%-12345X
@PJL FSDELETE NAME="<pathname>" [<CR>]<LF>
<ESC>%-12345X
    or
<ESC>%-12345X
@PJL FSDELETE FONTID="<Font ID>" [<CR>]<LF>
<ESC>%-12345X
```

<pathname> : This parameter is "Specified Directory Name + File Name"

For example, NAME="Wingdings 3 (TrueType)" or FONTID = 1234

In NTS, this string is "<file name>",

because Directory on HDD is fixed

[History]

2001/04/26
2001/04/26

Remove Directory Name from Parameter
Add FONTID in FSDELETE

M.Murakami
M.Murakami

AppendixD-2: Download Macro

[1] How to Download Macro to HDD

(1) To define a macro with an ID (For example ID is 7), send:

```
<esc>&f7y0X
...
<Escape sequences, control codes, and data>
...
<esc>&f1X
```

(2) To make the macro with an ID of 7 permanent, send:

```
<esc>&f7y10X
```

The Macro (ID) is registered in HDD.

[2] How to call Macro on HDD

User can use various function by using Macro Control Command.

Macro Control Command is followings;

```
<esc>&f#x/X
```

“x” is;

- 0 Start macro definition (last ID specified)
- 1 Stop macro definition
- 2 Execute macro (last ID specified)
- 3 Call macro (last ID specified)
- 4 Enable macro for overlay (last ID specified)
- 5 Disable overlay
- 6 Delete all macros
- 7 Delete all temporary macros
- 8 Delete macro (last ID specified)
- 9 Make macro temporary (last ID specified)
- 10 Make macro permanent (last ID specified)
- 11 Create bitmap of macro

If User want to call macro in Print Job, “2” or “3” is set into “x”,

```
———<esc>&f7y2X
```

if User want execute Overlay by Macro, “4” is set into “x”

```
———<esc>&f7y4X
```

[3] How to delete Macro on HDD

-When Device will received following command, Device will delete specified Macro

<esc>&f7y8X

-When Device will received following command, Device will delete all Macro

<esc>&f7y6X

[History]

2001/04/26

Remove Download Macro to HDD is spec.out

However, Download Macro to Memory should be supported as HP compatible

M.Murakami

Appendix E: Support PJL for Each Emulation

· This appendix define whether to support PJL or Not by each Emulation.

Table A-(1) Supported Variable for each Emulation

Environment Variable	PCL5e	PCL6e	PS (B/W)	Nozomi	PCL5c	OCL6e	PS (Color)	Nozomi (Color)
AUTOCONT	No	No	No	No	No	No	No	No
AUTOSELECT	No	No	No	No	No	No	No	No
BINDING	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BITSPERPIXEL	Yes (*1)	Yes (*1)	Yes (*1)	Yes (*1)	Yes (*1)	Yes (*1)	Yes (*1)	Yes (*1)
CLEARABLEWARNINGS	No	No	No	No	No	No	No	No
CONTEXTSWITCH	No	No	No	No	No	No	No	No
COPIES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COMPRESSRASTERSTRANGE	No	No	No	No	No	No	No	No
COURIER	No	No	No	No	No	No	No	No
CPLOCK	No	No	No	No	No	No	No	No
DENSITY	Yes (*2)	Yes (*2)	Yes (*2)	Yes (*2)	Yes (*2)	Yes (*2)	Yes (*2)	Yes (*2)
DISKLOCK	No	No	No	No	No	No	No	No
DUPLEX	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ECNOMODE	Yes (*3)	Yes (*3)	Yes (*3)	Yes (*3)	Yes (*3)	Yes (*3)	Yes (*3)	Yes (*3)
FINISH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FORMLINES	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOLD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOLDKEY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
HOLDTYPE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IMAGEADAPT	No	No	No	No	No	No	No	No
IMAGELLOCATION	No	No	No	No	No	No	No	No
INTRAY1	No	No	No	No	No	No	No	No
INTRAY2	No	No	No	No	No	No	No	No
INTRAY3	No	No	No	No	No	No	No	No
INTRAY4	No	No	No	No	No	No	No	No
INTRAY5	No	No	No	No	No	No	No	No
INTRAY1SIZE	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)
INTRAY#SIZE (#:2,3,4,5)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)	Yes (*4)
IOBUFFER	No	No	No	No	No	No	No	No
IOSIZE	No	No	No	No	No	No	No	No
JOBATTR	No	No	No	No	No	No	No	No
JOBID	No	No	No	No	No	No	No	No
JOBIDVALUE	No	No	No	No	No	No	No	No
JOBNAME	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JOBOFFSET	No	No	No	No	No	No	No	No
LANG	No	No	No	No	No	No	No	No
LOWTONER	No	No	No	No	No	No	No	No
MANUALFEED	No	No	No	No	No	No	No	No
MARGINS	No	No	No	No	No	No	No	No
MEDIASOURCE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MEDIATYPE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIRROR	No	No	No	No	No	No	No	No
MPTRAY	No	No	No	No	No	No	No	No
ORIENTATION	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OUTBIN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OUTBINPROCESS	No	No	No	No	No	No	No	No
OUTLINEPOINTSIZ	No	No	No	No	No	No	No	No

OUTTONER	No	No	No	No	No	No	No	No
PAGELNGTHACUURACY	No	No	No	No	No	No	No	No
PAGEPROTECT	No	No	No	No	No	No	No	No
PALETTESOURCE	No	No	No	No	No	No	No	No
PAPER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PAPERLENGTH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PAPERWIDTH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PARALLEL	No	No	No	No	No	No	No	No
PASSWORD	No	No	No	No	No	No	No	No
PERSONALITY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PLANESINUSE	No	No	No	No	No	No	No	No
POWERSAVE	No	No	No	No	No	No	No	No
POWERSAVETIME	No	No	No	No	No	No	No	No
PRINTQUALITY	No	No	No	No	No	No	No	No
QTY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
REFILLDURATION	No	No	No	No	No	No	No	No
REFILLTHRESHOLD	No	No	No	No	No	No	No	No
REFILLTYPE	No	No	No	No	No	No	No	No
RENDERMODE	No	No	No	No	No	No	No	No
REPRINT	No	No	No	No	No	No	No	No
RESOLUTION	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RESOURCESAVE	No	No	No	No	No	No	No	No
RESOURCESAVESIZE	No	No	No	No	No	No	No	No
RET	Yes (*5)	Yes (*5)	Yes (*5)	Yes (*5)	Yes (*5)	Yes (*5)	Yes (*5)	Yes (*5)
TIMEOUT	No	No	No	No	No	No	No	No
WIDEA4	Yes	Yes	No	No	Yes	Yes	No	No
FONTSOURCE	Yes	Yes	No	No	Yes	Yes	No	No
FONTNUMBER	Yes	Yes	No	No	Yes	Yes	No	No
PITCH	Yes	Yes	No	No	Yes	Yes	No	No
PTSIZE	Yes	Yes	No	No	Yes	Yes	No	No
SYMSET	Yes	Yes	No	No	Yes	Yes	No	No
ADOBEMBT	No	No	No	No	No	No	No	No
JAMRECOVERY	No	No	No	No	No	No	No	No
PRTPSERRS	No	No	No	No	No	No	No	No
MFEEDMEDIA	No	No	No	No	No	No	No	No
SORTING	No	No	No	No	No	No	No	No
OHPMODE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OHPTRAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OHPOPTRAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COVERMODE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COVERTRAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BACKCOVER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
BACKCOVERTRAY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PUNCH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GROUPCODE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MPTRAYS	No	No	No	No	No	No	No	No
CONTINUOUSMODE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTINUOUSDENSITY	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTINUOUSNUMBER	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CONTINUOUSCOLOR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGNRSIZE	No	No	No	No	No	No	No	No
IMAGESHIFT	No	No	No	No	No	No	No	No
IMAGESHIFTX	No	No	No	No	No	No	No	No
IMAGESHIFTY	No	No	No	No	No	No	No	No
PAPERTIMEOUT	No	No	No	No	No	No	No	No
JOGGING	No	No	No	No	No	No	No	No
PRIORITYFEED	No	No	No	No	No	No	No	No

MARKETAREA	No	No	No	No	No	No	No	No
TESTPRINT	No	No	No	No	No	No	No	No
CUSTOM#WIDTH	No	No	No	No	No	No	No	No
CUSTOM#LENGTH	No	No	No	No	No	No	No	No
TRAY1MEDIA	No	No	No	No	No	No	No	No
BOOKFORM	No	No	No	No	No	No	No	No
DOCNAME	No	No	No	No	No	No	No	No
FORMWIDTH	No	No	No	No	No	No	No	No
MAGAZINEFORM	No	No	No	No	No	No	No	No
N4	No	No	No	No	No	No	No	No
NIN1	No	No	No	No	No	No	No	No
SMOOTH	No	No	No	No	No	No	No	No
PUNCHNUM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
FOLDING	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
USERNAME	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
JOBNAME	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IMAGEADJUST	No	No	No	No	Yes	Yes	Yes	Yes
STACKMODE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OVERRIDEA4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COLORTYPE	No	No	No	No	Yes	Yes	No	No
SHIFTMARGINDIRECTION	No	No	No	No	No	No	No	No
SHIFTMARGINVALUE	No	No	No	No	No	No	No	No

Appendix F: Paper Size

Kind of Paper	Paper Size	Kind of Paper	Paper Size
US-Executive	7.25" x 10.5"	JIS B2	515mm x 728mm
US-Letter	8.5" x 11"	JIS B1	728mm x 1030mm
US-Legal	8.5" x 14"	JIS B0	1030mm x 1456mm
US-EDP	11" x 14"	ISO B10	31mm x 44mm
European-EDP	12" x 14"	ISO B9	44mm x 62mm
Ledger	11" x 17"	ISO B8	62mm x 88mm
US Government Letter	8" x 10"	ISO B7	88mm x 125mm
US Government Legal	8" x 13"	ISO B6	125mm x 176mm
Folio	8.3" x 13"	ISO B5	176mm x 250mm
Foolscap	8.5" x 13"	ISO B4	250mm x 353mm
Ledger	11" x 17"	ISO B3	353mm x 500mm
C Size	17" x 22"	ISO B2	500mm x 707mm
D Size	22" x 34"	ISO B1	707mm x 1000mm
E Size	34" x 44"	ISO B0	1000mm x 1414mm
Mini (US-Personal)	5.5" x 8.5"	Hagaki (Japanese single-size Postcard)	100mm x 148mm
ISO and JIS A10	26mm x 37mm	Oufuku-hagaki (round-trippostcard)	148mm x 200mm
ISO and JIS A9	37mm x 52mm	Same as 24 but card, not cutsheet	148mm x 200mm
ISO and JIS A8	52mm x 74mm	Index card	4x6 4" x 6"
ISO and JIS A7	74mm x 105mm	Index card	5x8 5" x 8"
ISO and JIS A6	105mm x 148mm	International DL (landscape)	110mm x 220mm
ISO and JIS A5	148mm x 210mm	Number 10 (landscape)	4 1/8" x 9 1/2"
ISO and JIS A4	210mm x 297mm	Monarch (Letter)	3 7/8" x 7 1/2"
ISO and JIS A3	297mm x 420mm	Commercial-10 (Business)	4 1/8" x 9 1/2"
ISO and JIS A2	420mm x 594mm	Catalog 1	6" x 9"
ISO and JIS A1	594mm x 841mm	International DL	110mm x 220mm
ISO and JIS A0	841mm x 1189mm	International C5	162mm x 229mm
ISO and JIS 2A0	1189mm x 1682mm	International C6	114mm x 162mm
ISO and JIS 4A0	1682mm x 2378mm	International C4	229mm x 324mm
JIS B10	32mm x 45mm	International B5	176mm x 250mm
JIS B9	45mm x 64mm	Commercial-9	98mm x 225mm
JIS B8	64mm x 91mm	Commercial-11	114mm x 264mm
JIS B7	91mm x 128mm	Letter Envelope	8.5" x 11"
JIS B6	128mm x 182mm	US C5	6.5" x 9.5"
JIS B5	182mm x 257mm	Postfix (Italian)	114mm x 229mm
JIS B4	257mm x 364mm	Standard US Invitation (5.5Baronial)	4 3/8" x 5 3/4"
JIS B3	364 x 515mm	Japanese Long Envelope #3	120mm x 235mm
FLS1	203 x 330mm	Japanese Long Envelope #4	90mm x 205mm
FLS2	210 x 330mm		
FLS3	216 x 330mm		
FLS4	220 x 330mm		

[History]

2001/03/26

Add FLS1,FLS2,FLS3,FLS4

urakam