




VACUUM FLUORESCENT DISPLAY MODULE

COMPANY NAME : 伍豐科技

USER 'MANUAL

SCV02002R6 Serial

Module Description: SCV02002R6MNGZ4

PROPOSED BY		APPROVED
Design	Approved	
		

SDEC TECHNOLOGY CORP.

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LCM SAMPLE APPROVAL

(液晶顯示模組樣品確認書)

1 · PART A: FILLED BY SDEC TECH (由 SDEC 填寫)

- 1) COMPANY NAME (客戶名稱) : 伍豐科技
- 2) SDEC ITEM NO. (產品型號) : SCV02002R6MNGZ4
- 3) CUSTOMER ITEM NO. (客戶產品型號) : RD9000PH03DR
- 4) LCM Function (LCM 內容) :

A	LCD TYPE (LCD 種類) : <input type="checkbox"/> TN, <input type="checkbox"/> HTN, <input type="checkbox"/> STN, <input type="checkbox"/> FSTN (<input type="checkbox"/> POSITIVE/正向, <input type="checkbox"/> NEGATIVE/反向, <input type="checkbox"/> BLACK MASK/內黑絲印) <input checked="" type="checkbox"/> VFD
B	VIEWING AREA (視角方向) : <input type="checkbox"/> 3H, <input type="checkbox"/> 6H, <input type="checkbox"/> 9H, <input type="checkbox"/> 12H <input checked="" type="checkbox"/> VFD
C	POLARIZER COLOR (偏光板顏色) : <input type="checkbox"/> GRAY/灰色, <input type="checkbox"/> YELLOW GREEN/黃綠色, <input type="checkbox"/> BLUE/藍色, <input type="checkbox"/> BLACK/黑色 <input checked="" type="checkbox"/> VFD
D	BACKLIGHT COLOR (背光顏色) : <input type="checkbox"/> YELLOW GREEN/黃綠光, <input type="checkbox"/> ORANGE/橘光, <input type="checkbox"/> BLUE/藍光, <input type="checkbox"/> GREEN/翠綠光, <input type="checkbox"/> WHITE/白光, <input checked="" type="checkbox"/> VFD
E	TEMPERATURE (溫度) : <input checked="" type="checkbox"/> NORMAL/常溫, <input type="checkbox"/> WIDE/廣溫
F	Checksum:A418B9 V10.7
G	MTBF:20,000 HOUR
H	PCB part number & version:SV-202R6-P2G0 REV8

SAMPLE DELIVERY DATE (出樣日期) : 2015.07.27

2 · PART B: FILLED BY CUSTOMER (請客戶填寫)

CHECK LIST ITEMS (檢查項目) :	OK	NG	REASON (原因)
1).LCM SIZE AND THICKNESS:(LCM 尺寸及厚度):	<input type="checkbox"/>	<input type="checkbox"/>	_____
2).COLOR : (色澤) :	<input type="checkbox"/>	<input type="checkbox"/>	_____
3).ELECTRO CHARACTERISTIC : (電氣特性) :	<input type="checkbox"/>	<input type="checkbox"/>	_____
4).VIEWING AREA (視角範圍) :	<input type="checkbox"/>	<input type="checkbox"/>	_____
5).ILLIMINATION (亮度) :	<input type="checkbox"/>	<input type="checkbox"/>	_____
6).TEMPERATURE RANGE (溫度範圍) :	<input type="checkbox"/>	<input type="checkbox"/>	_____

APPROVED BY (批准) :

DATE OF APPROVAL (批准日期) :



REVISION RECORD

Revision	Page	Contents
2013.02.06		First release version. 使用京東方 2004N VFD 由伍豐客供 VFD Checksum: A424FE 10.4
2013.04.16	2	增加 MTBF 標示
	6	修改為 12~24V 皆可正常操作
2013.04.17	2	增加 PCB 型號、版本
2013.06.06	17	Russia 字碼版本修改。
	18	PC-866 字碼版本修改。變更為 Checksum: A41DA0 VER:10.5
2013.08.28		增加 Ek 電壓，PCB 版本變更為 REV5。 修正 MODE B、C、D 無法跳至正常開機畫面問題。 韌體版本修定為 V10.6 Checksum:A40C8A
	6	增加 VFD 黏貼上下公差，和公差允許範圍
2013.09.02		伍豐料號由 RD9000PH03CK 變更為 RD9000PH03DJ 雄鐸料號由 SCV02002R6MNGZ1 變更為 SCV02002R6MNGZ2
2013.12.30		伍豐料號由 RD9000PH03DJ 變更為 RD9000PH03DQ 雄鐸料號由 SCV02002R6MNGZ2 變更為 SCV02002R6MNGZ3
		U1 原為 AX3007 變更為 EPU3482
2014.02.20		此型號用京東方燈管換為 Noritake 燈，R21 移除 R18 為 0 歐姆 SDEC 料號為 SCV02002R6MNGZ4，伍豐料號為 RD9000PH03DR
2015.07.27	7,9,11,16	將 80H~FFH 的 Slavonic 字庫變更為 PC-852 字庫 韌體版本修訂為 V10.7 Checksum：A418B9

SDEC LCD Module Numbering System

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S	S	C		040		04		A0		H	L	T	1	0
S	F	G		320		24		A0		J	C	W	1	0
S	H	D		007		08		A0		B	N	N	0	0

Numbering System	Code Value	Description	Remark		
1	Company	S	S	Company name abbreviated	SDEC CO.,LTD
2	LCM type	G	B C G O T S D	B:Big Character C:Character G:Graphic O:COG T:TAB S:Seven Segment D:Customer Design	LCM type
3	LCD type	S	T H S F R M V A	TN type LCD HTN type LCD STN type LCD FSTN type LCD Color STN TFT LCD VFD VATN	LCD type
4,5,6	Row dots number Characters per line Year	128	122,128,240,320... 008,016,020,040... 006,007...	Row dots number Characters per line Year	Graphic Character Seven Segment
7,8	Column dots number Lines Month	64	32,64,128,240... 01,02,04... 01,02..12	Column dots number Lines Month	Graphic Character Seven Segment
9,10	LCD module serial number	A0	A0~ZZ	LCD module serial number	Ux -> USB Port Interface Sx -> Series Port Interface Rx -> RS-232 Port Interface
11	Polarizer Color & Viewing angle type	I	A B C D E F G H I J K L M	Gray Mode/3:00view Gray Mode/6:00view Gray Mode/9:00view Gray Mode/12:00view Yellow Green Mode/3:00view Yellow Green Mode/6:00view Yellow Green Mode/9:00view Yellow Green Mode/12:00view Negative type/3:00view Negative type/6:00view Negative type/9:00view Negative type/12:00view Other	Polarizer Color & Viewing angle type
12	Backlight type	L	N L E C	Without backlight Array LED Edge LED C.C.F.L	Backlight type
13	Backlight color (VFD color)	Y	N O B G R Y W D T	Without backlight Orange (Amber) Blue Green Red Yellow-green White Double Color(Y-G&R) R G B	Backlight color
14	Font Code Type	0	0 1 2 3 A B C F U Z	No Font Table English-Japanese Font Code English-Europe Font Code English-Russian Font Code BIG-5 Chinese Font Code GB Chinese Font Code ST7920-0C Font Code ST7920-0F Font code (Korean) Unicode Other Font Code	Font Table Code Type
15	Series Code	0	0~Z		Series Code

CONTENTS

	PAGE
0. SDEC LCD Module Number System	3
1. Features	5
2. Display Specifications	5
3. Mechanic Dimension	5
4. RS-232C Interface Specifications	6
5. Switch Settings	6
6. Command Set	7
7. Character Set	11
8. Warranty	19

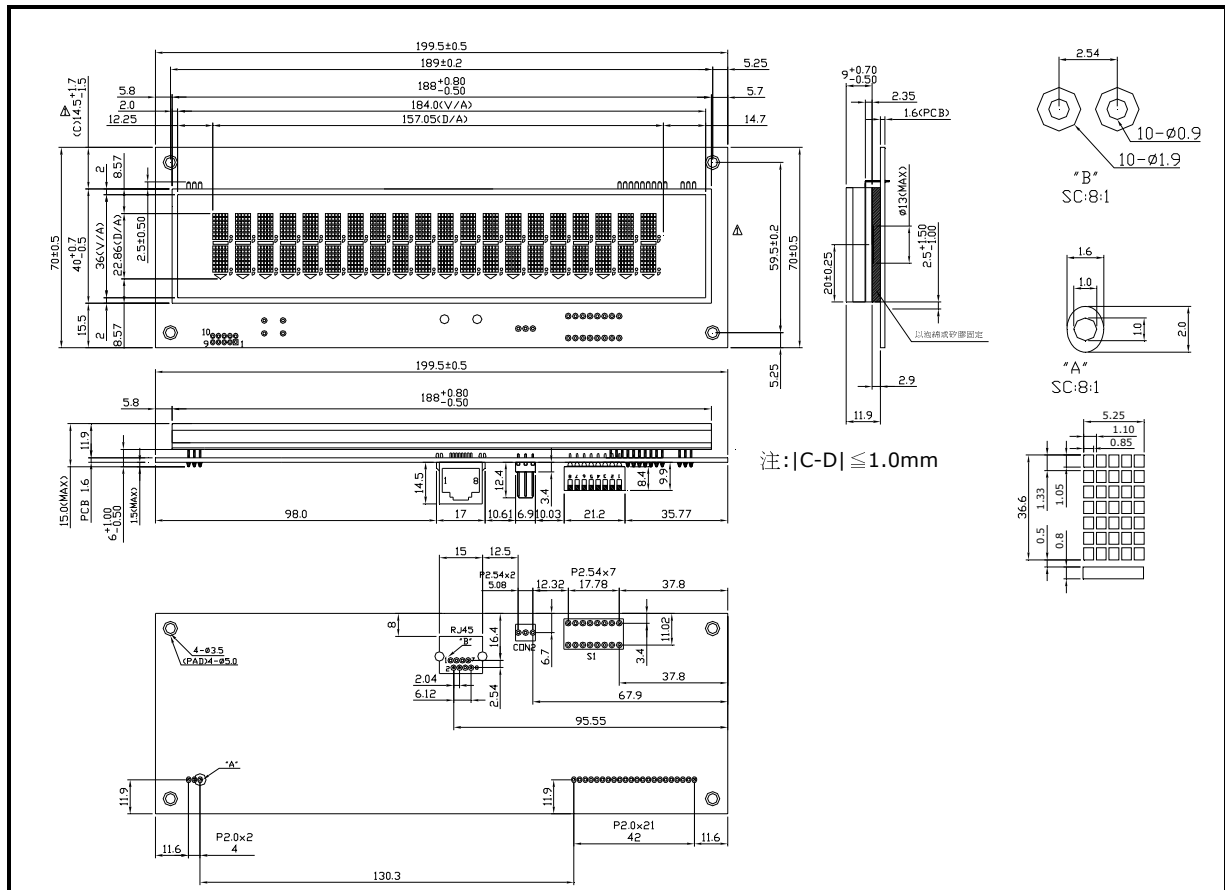
1. Features

- * High brightness Vacuum Fluorescent Display for excellent visibility over a wide viewing angle.
- * Available in 9.03mm high characters.
- * 40 characters in 20 columns by 2 lines format.
- * Thirteen sets of international characters, plus one set of user defined characters allows total flexibility in display fonts.
- * Standard RS-232C serial interface for data communication, with 9600 and 19200 baud rate selection.
- * A pass-through output is provided for cascading display or printer without additional serial port.
- * Easy programming using Escape sequence commands.
- * Emulation of Aedex, Epson and DSP800 command sets.
- * Display can swivel and tilt to a wide range of angles.
- * Adjustable display height.
- * Uses 12-24V DC unregulated supply.
- * Power may be sourced from system, with the bracket and cable kit supplied in typical configuration.
- * Optional AC adaptors in various configurations for all AC voltages.

2. Display Specifications

- * Display Type Vacuum Fluorescent Display (VFD).
- * Display Color Green. X=0.25±0.03, Y=0.44±0.03
- * Display Format 40 Characters (20 columns x 2 lines).
- * Character Type 13 sets of international characters
1 set of user definable characters.
- * Character Font 5 x 7 dot matrix.
- * Character Size 9.03mm(H) x 5.25mm(W).
- * Character Pitch 8.0mm.
- * Luminance 350cd/m²-700cd/m²
- * Operating Temperature: 5~45°C
- * Operating Humidity: 30%~85%
- * Storage Temperature: -10~55°C
- * Storage Humidity: 10%~85%
- * Supply Voltage 12V OR 24V DC
- * Consumption 6.0 Watts max

3. Mechanic Dimension



4. RS-232C Interface Specifications

- * Data Transmission Serial, asynchronous.
- * Baud Rate 9600 or 19200.
- * Data Bits 8 bits.
- * Parity None.
- * Stop Bits 1

Pin Assignment (RJ45)			
Pin No.	Signal	I/O	Description
1,2	Vin	--	Power Input
3,4	GND	--	Power GND
5	DSR	INPUT	Data Set Ready
6	DTR	OUTPUT	Data Terminal Ready
7	RXD	INPUT	Receive Data
8	TXD	OUTPUT	Transmit Data

5. Switch Settings

ISP Function Select

Sw1	ISP Select
On	ISP Off
Off	ISP On

Command Set Select

SW2	SW3	Mode	Command Set
On	On	A	Firich / CD5220
Off	On	B	Epson
On	Off	C	Aedex
Off	Off	D	DSP800

Character Set Select

Switch Settings				Character Set Selection	
SW4	SW5	SW6	SW7	Character Set (20h – 7Fh)	Code Table (80h – FFh)
On	On	On	On	U.S.A.	PC-437
On	On	On	Off	France	PC-858
On	On	Off	On	Germany	PC-858
On	On	Off	Off	U.K.	PC-858
On	Off	On	On	Denmark I	PC-858
On	Off	On	Off	Sweden	PC-858
On	Off	Off	On	Italy	PC-858
On	Off	Off	Off	Spain	PC-858
Off	On	On	On	Japan	Katakana
Off	On	On	Off	Norway	PC-858
Off	On	Off	On	Denmark II	PC-858
Off	On	Off	Off	U.S.A.	PC-852
Off	Off	On	On	U.S.A.	Russia
Off	Off	On	Off	U.S.A.	Australia
Off	Off	Off	On	U.S.A.	PC-866
Off	Off	Off	Off	User Defined (Default U.S.A. & Win 1251)	

Baud Rate Select

Sw8	Baud Rate
On	9600
Off	19200

6. Command Set

6.1 FIRICH/CD5220 Command Mode

Command	Hex	Function Description
ESC DC0	1B 10	Checksum status
ESC DC1	1B 11	Overwrite mode.
ESC DC2	1B 12	Vertical scroll mode.
ESC DC3	1B 13	Horizontal scroll mode.
ESC Q A d1...dn CR	1B 51 41 d1...dn 0D 1<=n<=20	Set string display mode, write string to upper line.
ESC Q B d1...dn CR	1B 51 42 d1...dn 0D 1<=n<=20	Set string display mode, write string to lower line.
ESC Q D d1...dn CR	1B 51 44 d1...dn 0D 1<=n<=20	Set string display mode, write string to upper line and scroll the message continuously.
ESC [A	1B 5B 41	Move cursor up.
ESC [B	1B 5B 42	Move cursor down.
LF	0A	Move cursor down.
ESC [C	1B 5B 43	Move cursor right.
HT	09	Move cursor right.
ESC [D	1B 5B 44	Move cursor left.
BS	08	Move cursor left.
ESC [H	1B 5B 48	Move cursor to home.
HOM	0B	Move cursor to home.
ESC [L	1B 5B 4C	Move cursor to left-end.
CR	0D	Move cursor to left-end.
ESC [R	1B 5B 52	Move cursor to right-end.
ESC [K	1B 5B 4B	Move cursor to bottom.
ESC l x y	1B 6C x y 1<=x<=20,y=1,2	Move cursor to specified position.
ESC @	1B 40	Initialize display.
CLR	0C	Clear display, clear string mode.
CAN	18	Clear cursor line, clear string mode.
ESC _ n	1B 5F n n=0,1	Set cursor on / off.
ESC W s x1 x2 y	1B 57 s x1 x2 y s=0,1 1<=x1<=x2<=20 y=1,2	Set / cancel the windows range in horizontal scroll mode.
ESC f n	1B 66 n	Select international font set. Codes 00h-7Fh.
ESC c n	1B 63 n	Select code table. Codes 80h-FFh.
ESC & s n m [a(p1..pa)x(m-n+1)]	1B 26 01 n m 21h<=n<=m<=FFh 0<=a<=5 0<=pn<=255	Define user defined characters.
ESC ?	1B 3F	Delete user defined characters.
ESC %	1B 25 n n=0,1	Select / cancel download character set.
ESC s l	1B 73 01	Store user defined character in EEPROM.
ESC d l	1B 64 01	Restore user defined character from EEPROM.
ESC S n	1B 53 n 31h<=n<=35h	Save current display data as n'th layer in EEPROM.
ESC D n m	1B 44 n m 01h<=n<=1Fh 31h<=m<=33h	Display saved data from EEPROM as animated message. Bit position in n selects the layer to be displayed.
ESC * n	1B 2A n 1<=n<=4	Brightness adjustment.
ESC = n	1B 3D n n=01h,02h,03h	Select peripheral device. n=01h : select nest device. n=02h : select display n=03h : select display and next device
US T h m	1F 54 h m	Display time : $0 \leq h \leq 23$; $0 \leq m \leq 59$
US U	1F 55	Display of time counter

US	1F 60 n n=0,1	Set/cancel user-defined title of display. n=0 : Cancel user-defined title of display. n=1 : Set user-defined title of display.
US a d1...dn CR	1F 61 d1...dn 0D n=20	Define user title

*** International Font Set for Firich/CD5220 (20h-7Fh)**

n	International Font	n	International Font
A	U.S.A	L	Slavonic
D	Denmark I	N	Norway
E	Denmark II	R	Russia
F	France	S	Spain
G	Germany	U	U.K
I	Italy	W	Sweden
J	Japan		

Code Table for Firich/CD5220

n	International Font Set (80h-FFh)
A	Page 0:PC437:U.S.A., standard Europe.
J	Page 1: Katakana for Japan.
M	Page 2: PC858: multilingual.
P	Page 3: PC860: Portuguese.
F	Page 4: PC863: Canadian-French.
N	Page 5: PC865: Nordic.
R	Page 6: Russia.
L	Page 7: PC-852
S	Page 8: PC866
T	Page 9: Australia
C	Page 10:Win 1251 Cyrillic (Slavic)

6.2 AEDEX Command Mode

Command	Hex	Function Description
! # 1 d1...d40 CR	21 23 31 d1...d40 0D	Display string on upper line.
! # 2 d1...d40 CR	21 23 32 d1...d40 0D	Display string on lower line.
! # 4 d1...d40 CR	21 23 34 d1...d40 0D	Display string on upper line and scroll continuously.
! # 5 hh:mm CR	21 23 35 hh : mm 0D h,m = '0'...'9'	Display time
! # 6 d1...d40 CR	21 23 36 d1...d40 0D	Display string on upper line and scroll once.
! # 8 n m CR	21 23 38 n m 0D 20h<=n,m	Change attention code.
! # 9 d1...d40 CR	21 23 39 d1...d40 0D	Display string on two line.

6.3 DSP800 Command Mode

Command	Hex	Function Description
E _{OT} S _{OH} P n E _{TB}	04 01 50 n 17 31h<=n<=58h	Move cursor to specified position.
E _{OT} S _{OH} C n m E _{TB}	04 01 43 n m 17 31h<=n<=m<=58h	Clear display range from position n to position m and move cursor to position n.
E _{OT} S _{OH} S n E _{TB}	04 01 53 n 17 31h<=n<=35h	Save cursor display data to n'th layer in EEPROM.
E _{OT} S _{OH} D n m E _{TB}	04 01 44 n m 17 01h<=n<=1Fh 31h<=m<=33h	Display data saved in EEPROM. Bit position in n selects the layer to be displayed. Please see note below.
E _{OT} S _{OH} A n E _{TB}	04 01 41 n 17 31h<=n<=34h	Adjust brightness.
E _{OT} S _{OH} F n E _{TB}	04 01 46 n 17 00h<=n<=FFh	Blink display.
E _{OT} S _{OH} I n E _{TB}	04 01 49 n 17	Select international character set.
E _{OT} S _{OH} & n p1...p5 E _{TB}	04 01 26 n p1..p5 17 21h<=n	Define user-defined character.

$E_{OT} S_{OH} ? n E_{TB}$	04 01 3F n 17 21h<=n	Delete user-defined character.
$E_{OT} S_{OH} = n E_{TB}$	04 01 3D n 17 n=1,2	Select peripheral device. n=1: next device. n=2: display.
$E_{OT} S_{OH} \% E_{TB}$	04 01 25 17	Initialize display.
$E_{OT} S_{OH} @ E_{TB}$	04 01 40 17	Self test.

* When using **display data saved in EEPROM** command ($E_{OT} S_{OH} D$), the data layer is selected by bit position within a byte in **n**. For example n=01h selects layer one, n=04h selects three, whereas n=05h selects both the layer one and three. When more than one layer is selected, they will be displayed in sequence.

6.4 EPSON Command Mode

Command	Hex	Function Description
HT	09	Move cursor right
BS	08	Move cursor left
US LF	1F 0A	Move cursor up
LF	0A	Move cursor down
US CR	1F 0D	Move cursor to right-most position
CR	0D	Move cursor to left-most position
HOM	0B	Move cursor to home position
US B	1F 42	Move cursor to bottom position
US \$ x y	1F 24 x y 01h<=x<=14h y=01h,02h	Move cursor to specified position
CLR	0C	Clear display screen
CAN	18	Clear cursor line
US C n	1F 43 n n=00h,01h	Select / cancel cursor display , n=0, canceled ; n=1, selected
ESC t n	1B 74 n 01h<=n<=07h	Select code table for character range 80h-FFh.
ESC R n	1B 52 n 01h<=n<=0Fh	Select international character set for character range 20h-7Fh.
US r n	1F 72 n n=00h,01h	Select / cancel reverse character , n=0, canceled ; n=1, selected
US MD1	1F 01	Specify overwrite mode
US MD2	1F 02	Specify vertical scroll mode
US MD3	1F 03	Specify horizontal scroll mode
ESC W n s (x1 y1 x2 y2)	1B 57 n s x1 y1 x2 y2 01h<=n<=04h s=00h,01h 01h<=x1<=x2<=14h 01h<=y1<=y2<=02h	Specify / cancel the windows range
ESC % n	1B 25 n n=00h,01h	Select / cancel download character set
ESC & s n m [a(p1..p5)]*(m-n+1)	1B 26 01 n m [a(p1..p5)][m-n+1]	Define download characters 21h ≤ n ≤ m ≤ FFh ; a=5 (p1..p5=pattern1..pattern5) ; 00h ≤ p ≤ FFh
ESC ?	1B 3F	Cancel user-defined characters
ESC s 1	1B 73 01	Store user-defined character in EEPROM.
ESC d 1	1B 64 01	Load user-defined character from EEPROM.
US :	1F 3A	Set starting / ending position of macro definition
US ^ n m	1F 5E n m	Execute and quit macro , 0 ≤ (n,m) ≤ 255 n: specifies the time interval for display of characters in units of [n*50msec] m: specifies the interval of macro execution every [m*50msec]
US T h m	1F 54 h m	Display time : 0 ≤ h ≤ 23 ; 0 ≤ m ≤ 59
US U	1F 55	Display of time counter at the bottom right corner. If the counter was not set previously with Us T command, it's contain stars from the last time the display was initialized.
US E n	1F 45 n	Blink display screen 0 ≤ n ≤ 255 (n*50msec) ON / (n*50msec) OFF n=0, blinking is canceled n=255, display is turned off
US X n	1F 58 n	Brightness adjustment , 1 ≤ n ≤ 4
ESC @	1B 40	Initialize display

US @	1F 40	Execute self-test
ESC = n	1B 3D n n=01h,02h,03h	Select peripheral device n=01h : select nest device. n=02h : select display n=03h : select display and next device
US `	1F 60 n n=0,1	Set/cancel user-defined title of display. n=0 : Cancel user-defined title of display. n=1 : Set user-defined title of display.
US a d1...dn CR	1F 61 d1...dn 0D n=20	Define user title

*** International Font Set for Epson (20h-7Fh)**

n (Hex)	International Font	n (Hex)	International Font
0	U.S.A	8	JAPAN
1	FRANCE	9	NORWAY
2	GERMANY	A	DENMARK II
3	U.K.	B	SLAVONIC
4	DENMARK I	C	RUSSIA
5	SWEDEN	D	Reserved
6	ITALY	E	Reserved
7	SPAIN	F	Reserved

Code Table for Epson

n	International Font Set (80h-FFh)
0	Page 0: PC437: U.S.A., standard Europe.
1	Page 1: Katakana for Japan.
2	Page 2: PC858: multilingual.
3	Page 3: PC860: Portuguese.
4	Page 4: PC863: Canadian-French.
5	Page 5: PC865: Nordic.
6	Page 6: Russia.
7	Page 7: PC-852
8	Page 8: PC866
9	Page 9: Australia
A	Page A: Win 1251

7. Character Set

	0	1	2	3	4	5	6	7
0				0	@	P	'	p
1			!	1	A	Q	a	q
2			"	2	B	R	b	r
3			#	3	C	S	c	s
4			\$	4	D	T	d	t
5			%	5	E	U	e	u
6			&	6	F	V	f	v
7			'	7	G	W	g	w
8			(	8	H	X	h	x
9			)	9	I	Y	i	y
A			*	#	J	Z	j	z
B			+	,	K	[	k	[
C			,	<	L	\	l	!
D			-	=	M	]	m)
E			.	>	N	^	n	~
F			/	?	O	_	o	

USA Font Set (00h~ 7Fh)

n	Country	23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
0	USA	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
1	France	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
2	Germany	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
3	U.K.	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
4	Denmark I	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
5	Sweden	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
6	Italy	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
7	Spain	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
8	Japan	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
9	Norway	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
10	Denmark II	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
11	Slavonic	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘
12	Russia	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘	⌘

Font Variations (00h ~ 7Fh)

	8	9	A	B	C	D	E	F
0	Ɔ	é	á	⊗	Ł	¼	α	Ξ
1	ü	æ	í	⊗	Ł	ƒ	ß	±
2	é	Æ	á	▣	τ	π	Γ	Δ
3	á	â	ú	ı	ı	¼	Π	Δ
4	ä	ö	Ä	ı	ı	Ł	Σ	ı
5	á	â	Ä	ı	ı	ƒ	Ö	ı
6	á	â	ä	ı	ı	π	ı	÷
7	Ɔ	ü	ö	π	ı	ı	τ	æ
8	é	ü	ç	ı	ı	+	ö	ı
9	ë	ö	ı	ı	ı	ı	ö	ı
A	é	ü	ı	ı	ı	ı	ö	ı
B	ı	æ	ı	ı	ı	ı	ı	ı
C	ı	é	ı	ı	ı	ı	ı	ı
D	ı	ı	ı	ı	ı	ı	ı	ı
E	ı	ı	ı	ı	ı	ı	ı	ı
F	ı	ı	ı	ı	ı	ı	ı	ı

PC-437 Font Set

	8	9	A	B	C	D	E	F
0	Ɔ	é	á	⊗	Ł	ä	ó	ı
1	ü	æ	í	⊗	Ł	ß	ı	ı
2	é	Æ	á	⊗	τ	é	ö	ı
3	á	â	ú	ı	ı	é	ö	ı
4	ä	ö	Ä	ı	ı	é	ö	ı
5	á	â	Ä	ı	ı	é	ö	ı
6	á	â	ä	ı	ı	ı	ı	ı
7	Ɔ	ü	ö	ı	ı	ı	ı	ı
8	é	ü	ç	ı	ı	ı	ı	ı
9	ë	ö	ı	ı	ı	ı	ı	ı
A	é	ü	ı	ı	ı	ı	ı	ı
B	ı	æ	ı	ı	ı	ı	ı	ı
C	ı	é	ı	ı	ı	ı	ı	ı
D	ı	ı	ı	ı	ı	ı	ı	ı
E	ı	ı	ı	ı	ı	ı	ı	ı
F	ı	ı	ı	ı	ı	ı	ı	ı

PC-858 Font Set

	8	9	A	B	C	D	E	F
0	☺	☹	☼	☼	☼	☼	☼	☼
1	☺	☹	☼	☼	☼	☼	☼	☼
2	☺	☹	☼	☼	☼	☼	☼	☼
3	☺	☹	☼	☼	☼	☼	☼	☼
4	☺	☹	☼	☼	☼	☼	☼	☼
5	☺	☹	☼	☼	☼	☼	☼	☼
6	☺	☹	☼	☼	☼	☼	☼	☼
7	☺	☹	☼	☼	☼	☼	☼	☼
8	☺	☹	☼	☼	☼	☼	☼	☼
9	☺	☹	☼	☼	☼	☼	☼	☼
A	☺	☹	☼	☼	☼	☼	☼	☼
B	☺	☹	☼	☼	☼	☼	☼	☼
C	☺	☹	☼	☼	☼	☼	☼	☼
D	☺	☹	☼	☼	☼	☼	☼	☼
E	☺	☹	☼	☼	☼	☼	☼	☼
F	☺	☹	☼	☼	☼	☼	☼	☼

PC-860 Font Set

	8	9	A	B	C	D	E	F
0	☺	☹	☼	☼	☼	☼	☼	☼
1	☺	☹	☼	☼	☼	☼	☼	☼
2	☺	☹	☼	☼	☼	☼	☼	☼
3	☺	☹	☼	☼	☼	☼	☼	☼
4	☺	☹	☼	☼	☼	☼	☼	☼
5	☺	☹	☼	☼	☼	☼	☼	☼
6	☺	☹	☼	☼	☼	☼	☼	☼
7	☺	☹	☼	☼	☼	☼	☼	☼
8	☺	☹	☼	☼	☼	☼	☼	☼
9	☺	☹	☼	☼	☼	☼	☼	☼
A	☺	☹	☼	☼	☼	☼	☼	☼
B	☺	☹	☼	☼	☼	☼	☼	☼
C	☺	☹	☼	☼	☼	☼	☼	☼
D	☺	☹	☼	☼	☼	☼	☼	☼
E	☺	☹	☼	☼	☼	☼	☼	☼
F	☺	☹	☼	☼	☼	☼	☼	☼

PC-863 Font Set

	8	9	A	B	C	D	E	F
0	Ɔ	é	á	⊗	↳	↳	↳	↳
1	Ü	æ	í	⊗	↳	↳	↳	↳
2	é	Æ	ó	⊗	↳	↳	↳	↳
3	á	ò	ú	↳	↳	↳	↳	↳
4	ä	ö	ñ	↳	↳	↳	↳	↳
5	à	ò	ñ	↳	↳	↳	↳	↳
6	á	ó	á	↳	↳	↳	↳	↳
7	Ɔ	ú	é	↳	↳	↳	↳	↳
8	é	ú	ó	↳	↳	↳	↳	↳
9	é	ö	↳	↳	↳	↳	↳	↳
A	é	ü	↳	↳	↳	↳	↳	↳
B	í	æ	↳	↳	↳	↳	↳	↳
C	í	é	↳	↳	↳	↳	↳	↳
D	í	é	↳	↳	↳	↳	↳	↳
E	Ä	Ä	↳	↳	↳	↳	↳	↳
F	Ä	Ä	↳	↳	↳	↳	↳	↳

PC-865 Font Set

	8	9	A	B	C	D	E	F
0	Ɔ	é	á	⊗	↳	↳	↳	↳
1	Ü	ü	í	⊗	↳	↳	↳	↳
2	é	í	ó	⊗	↳	↳	↳	↳
3	á	ò	ú	↳	↳	↳	↳	↳
4	ä	ö	ñ	↳	↳	↳	↳	↳
5	ó	ü	é	↳	↳	↳	↳	↳
6	é	í	↳	↳	↳	↳	↳	↳
7	Ɔ	é	↳	↳	↳	↳	↳	↳
8	í	é	↳	↳	↳	↳	↳	↳
9	é	ö	↳	↳	↳	↳	↳	↳
A	ó	ü	↳	↳	↳	↳	↳	↳
B	ö	↳	↳	↳	↳	↳	↳	↳
C	í	é	↳	↳	↳	↳	↳	↳
D	↳	↳	↳	↳	↳	↳	↳	↳
E	Ä	↳	↳	↳	↳	↳	↳	↳
F	é	é	↳	↳	↳	↳	↳	↳

PC-852 Font Set

	8	9	A	B	C	D	E	F
0	А	Р	а				Р	а
1	Б	С	Б				С	Т
2	В	Т	В				Т	К
3	Г	У	Г				У	Н
4	О	Ф	о				Ф	Ф
5	Е	Х	е				Х	У
6	Ж	У	Ж				У	У
7	Э	У	э				У	Н
8	М	Ш	М				Ш	Э
9	А	Ш	а				Ш	Т
A	К	К	К				К	К
B	Л	Л	Л				Л	Н
C	М	М	М				М	Ф
D	Н	Н	Н				Н	У
E	О	О	О				О	У
F	Р	Р	Р				Р	

Russia Font Set

	8	9	A	B	C	D	E	F
0	㇀	㇁		㇂	㇃	㇄	㇅	㇆
1	㇇	㇈	㇉	㇊	㇋	㇌	㇍	㇎
2	㇏	㇐	㇑	㇒	㇓	㇔	㇕	㇖
3	㇗	㇘	㇙	㇚	㇛	㇜	㇝	㇞
4	㇟	㇠	㇡	㇢	㇣	㇤	㇥	㇦
5	㇧	㇨	㇩	㇪	㇫	㇬	㇭	㇮
6	㇯	ㇰ	ㇱ	ㇲ	ㇳ	ㇴ	ㇵ	ㇶ
7	ㇷ	ㇸ	ㇹ	ㇺ	ㇻ	ㇼ	ㇽ	ㇾ
8	ㇿ	㈀	㈁	㈂	㈃	㈄	㈅	㈆
9	㈇	㈈	㈉	㈊	㈋	㈌	㈍	㈎
A	㈏	㈐	㈑	㈒	㈓	㈔	㈕	㈖
B	㈗	㈘	㈙	㈚	㈛	㈜	㈝	㈞
C	㈟	㈠	㈡	㈢	㈣	㈤	㈥	㈦
D	㈧	㈨	㈩	㈪	㈫	㈬	㈭	㈮
E	㈯	㈰	㈱	㈲	㈳	㈴	㈵	㈶
F	㈷	㈸	㈹	㈺	㈻	㈼	㈽	㈾

Katakana Font Set

	8	9	A	B	C	D	E	F
0				°	À	Ð	à	ä
1			ı	±	Á	Ñ	á	ñ
2			†	²	Â	Ò	â	ö
3			£	³	Ã	Ó	ã	õ
4			€	¼	Ä	Ô	ä	ö
5			¥	½	Å	Ö	å	ö
6			§	¾	Æ	Ø	æ	ø
7			§	·	Ç	×	ç	÷
8			§	¸	È	Ù	è	ù
9			Ø	ı	É	Ú	é	ú
A			à	é	Ê	Û	ê	û
B			ø	¸	Ë	Ü	ë	ü
C			→	Ê	ı	Û	ı	ü
D			→	Ë	ı	Û	ı	ü
E			Ø	ı	ı	ı	ı	ı
F			→	ı	ı	ı	ı	ı

Australia Font Set

	8	9	A	B	C	D	E	F
0	À	Á	À	⊗	ı	ı	ı	ı
1	Ê	Ë	Ë	⊗	ı	ı	ı	ı
2	Ë	Ë	Ë	ı	ı	ı	ı	ı
3	Ë	Ë	Ë	ı	ı	ı	ı	ı
4	Ë	Ë	Ë	ı	ı	ı	ı	ı
5	Ë	Ë	Ë	ı	ı	ı	ı	ı
6	Ë	Ë	Ë	ı	ı	ı	ı	ı
7	Ë	Ë	Ë	ı	ı	ı	ı	ı
8	Ë	Ë	Ë	ı	ı	ı	ı	ı
9	Ë	Ë	Ë	ı	ı	ı	ı	ı
A	Ë	Ë	Ë	ı	ı	ı	ı	ı
B	Ë	Ë	Ë	ı	ı	ı	ı	ı
C	Ë	Ë	Ë	ı	ı	ı	ı	ı
D	Ë	Ë	Ë	ı	ı	ı	ı	ı
E	Ë	Ë	Ë	ı	ı	ı	ı	ı
F	Ë	Ë	Ë	ı	ı	ı	ı	ı

PC866 Font Set

	8	9	A	B	C	D	E	F
0	À	Á	Â	Ã	Ä	Å	Æ	Ç
1	È	É	Ê	Ë	Ì	Í	Î	Ï
2	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù
3	Ú	Û	Ü	Ý	Þ	ß	à	á
4	ä	å	æ	ç	è	é	ê	ë
5	ì	í	î	ï	ð	ñ	ò	ó
6	ô	õ	ö	÷	ø	ù	ú	û
7	ü	ý	þ	ß	à	á	â	ã
8	ä	å	æ	ç	è	é	ê	ë
9	ì	í	î	ï	ð	ñ	ò	ó
A	ü	ý	þ	ß	à	á	â	ã
B	ä	å	æ	ç	è	é	ê	ë
C	ì	í	î	ï	ð	ñ	ò	ó
D	ô	õ	ö	÷	ø	ù	ú	û
E	ü	ý	þ	ß	à	á	â	ã
F	ä	å	æ	ç	è	é	ê	ë

Win 1251 Font Set

8. Warranty [保證] :

This product has been manufactured to your company's specifications as a part for use in your company's general electronic products. It is guaranteed to perform according to delivery specifications. For any other use apart from general electronic equipment, we cannot take responsibility if the product is used in medical devices, nuclear power control equipment, aerospace equipment, fire and security systems, or any other applications in which there is a direct risk to human life and where extremely high levels of reliability are required. If the product is to be used in any of the above applications, we will need to enter into a separate product liability agreement.

[此產品的製造是依照客戶的規格，被使用於客戶的一般電子產品上，保證產品製作根據出貨的規格，若產品的使用不是在一般電子設備，而組裝於下列產品上則無法受理（如醫療產品、核心電源控制設備、航空設備、防火及保全系統，或任何相關儀器會直接影響人類生命等），若模組使用於上述的儀器，則需商討各別產品責任義務的協定]

7.1 We cannot accept responsibility for any defect, which may arise after the application of strong external force to the product.

[不受理因強大外力衝擊造成產品的缺陷]

7.2 We cannot accept responsibility for any defect, which may arise from additional manufacturing of the product (including disassembly and reassembly), after product delivery.

[不受理產品出貨後，因額外加工(包含拆裝及重新封包)造成的缺陷]

7.3 We cannot accept responsibility for any defect, which may arise due to the application of static electricity after the product, has passed your company's acceptance inspection procedures.

[不受理通過貴公司檢驗流程後，由於靜電造成產品的缺陷]

7.4 We cannot accept responsibility for intellectual property of a third party, which may arise through the application of our product to your assembly with exception to those issues relating directly to the structure or method of manufacturing of our product.

[不受理因在客戶產品生產線端所產生的第三人智慧財產權責任，除非與我司生產製造方法有直接關係的問題]

7.5 When the product is in CCFL models, CCFL service life and brightness will vary according to the performance of the inverter used, leaks, etc. We cannot accept responsibility for product performance, reliability, or defect, which may arise.

[產品是 CCFL 模組時，CCFL 的壽命及亮度將取決於連接器的性能、漏電量等；無法受理因 CCFL 造成產品性能的缺陷]

7.6 SDEC will not be held responsible for any quality guarantee issue for defect products longer than 1(one) year from SDEC production which ever comes later.

[出廠超過一年的瑕疵品，任何品質擔保則不受理]