Videojet 1210/1510

P/N 361868-10

AF, 2009 2

CE

- BS EN61000-6-4 2001
- BS EN55022 A 2006
- BS EN61000-3-2 2006
- BS EN61000-3-3 1995
- BS EN61000-6-2 2005
- BS EN61000-4-2 1995 ESD
- BS EN61000-4-3 2006
- BS EN61000-4-4 2004
- BS EN61000-4-5 2006
- BS EN61000-4-6 1996
- BS EN61000-4-11 2004

EU EMC 2004/108/EC

EC 73/23/EEC

EN 60950-1 2001

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Pour la clientèle du Canada

Le present appareil numerique n’emet pas de bruits radioelectriques depassant les limites applicales aux appareils numerique de las class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.

Cet équipement est certifié CSA.

1-800-843-3610

Videojet Technologies Inc.

Videojet Technologies Inc.

Videojet Technologies Inc.

1500 Mittel Boulevard

Wood Dale, IL 60191-1073 U.S.A.

1-800-843-3610

1-800-582-1343

630-616-3629

www.videojet.com

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Total Source® TOTAL SERVICE PLUS RELIABILITY

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Videojet Technologies Inc.

Videojet Technologies Inc.

Videojet Technologies Inc.
1-800-843-3610 Videojet
Videojet

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Videojet 1210/1510 3-1
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LED 3-2
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Videojet 1210/1510

Videojet 1210/1510 361869

361868-04 1-2

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Videojet Technologies Inc.
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- Videojet
- Videojet
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Videojet

HAZMAT

Videojet
(www.videojet.com) (MSDS)

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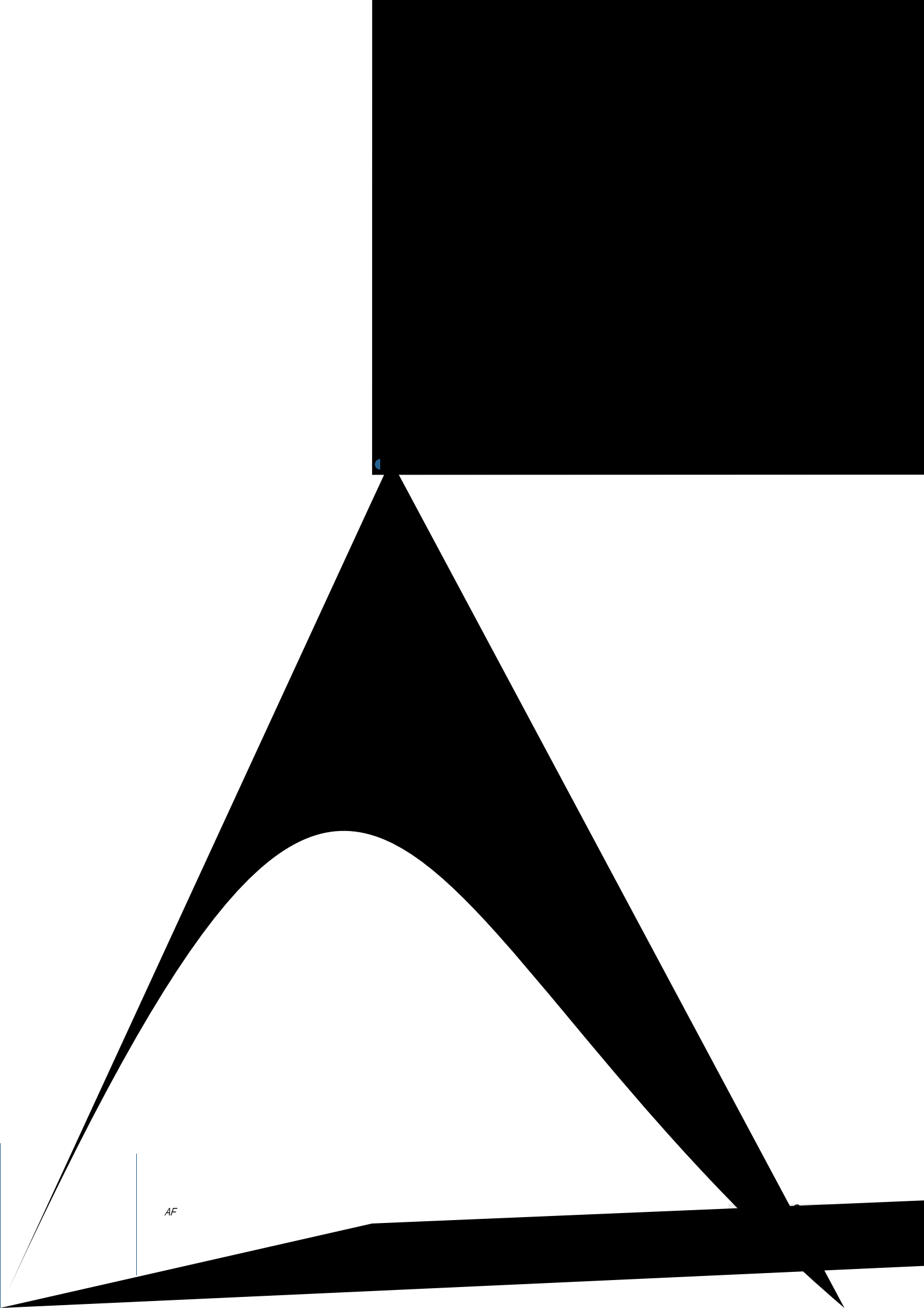
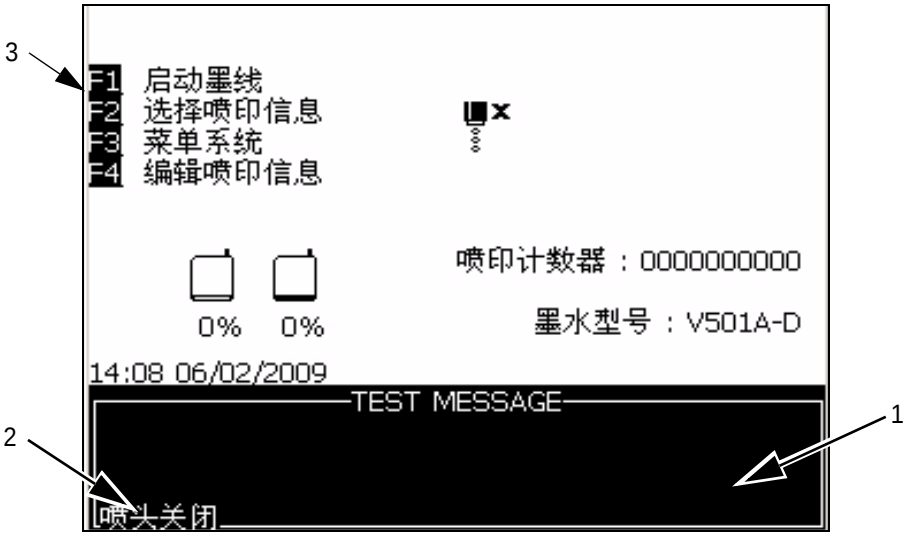
AF


AF



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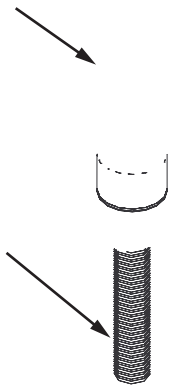

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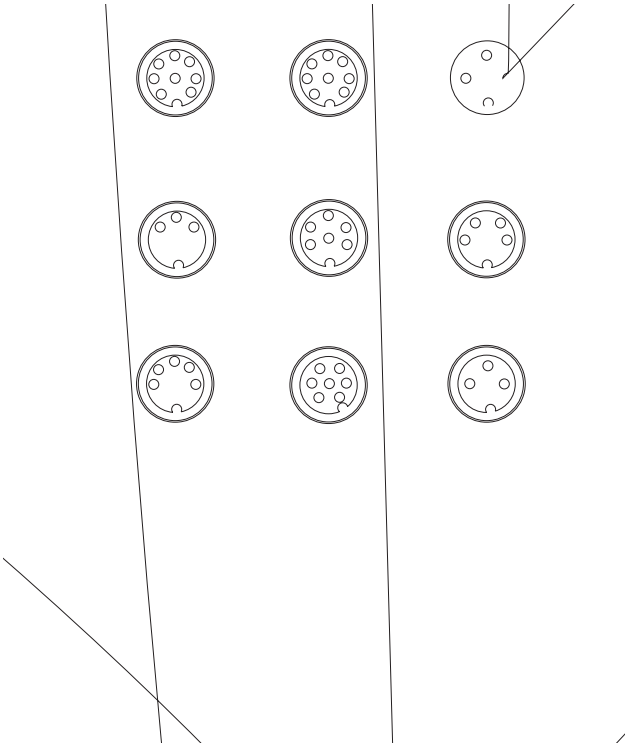
3-1

1	Videojet 1210	-
(PCB 0)	Videojet 1510	
(PCB 1)		
COMMS RS232	-	Videojet 1210
(PCB 2)	Videojet 1510	
COMMS RS485	-	Videojet 1210
(PCB 1)	Videojet 1510	
	-	Videojet 1210
(PCB 2)	Videojet 1510	
VE jet 1210	-	Videojet 1210
(PCB 1)	Videojet 1510	



IP67

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	DIN 6
	DIN 4
	DIN 7
1	DIN 3
USB	-

3-2:

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COMMS RS485 180º	DIN 5
COMMS RS232	DIN 5
B	DIN 8
A	DIN 8

3-2:

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IP55 Videojet 1210 Videojet 1510
IP65 Videojet 1210 1510
3-11 3-10

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UI Password

UI

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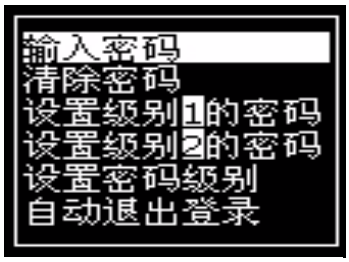
UI



4-1:

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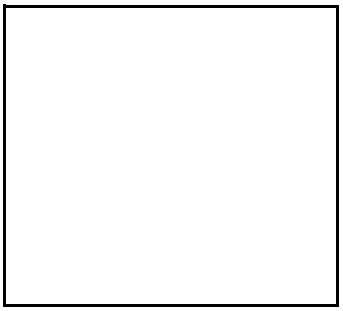

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2 *Enter*

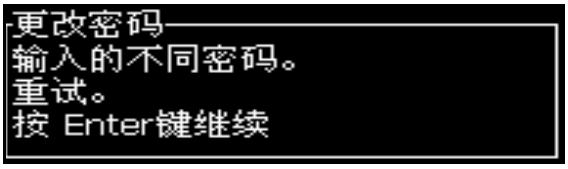
4-6:

3 *Enter*

Change Password

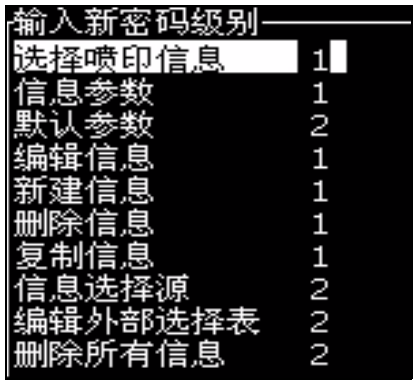
4-7

Esc *New Password*



4-7:

Messages



4-10:

4 *Esc*

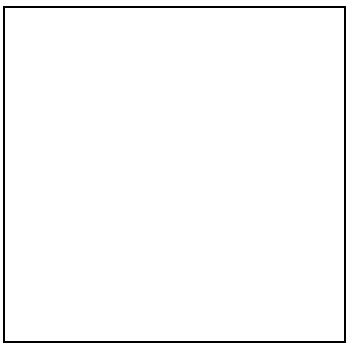
1 *Alt + w* *Password* Enter Password *Enter Password*

4-11

4-11:

2

Alt + w *Clear Password* 4-7
4-12 0

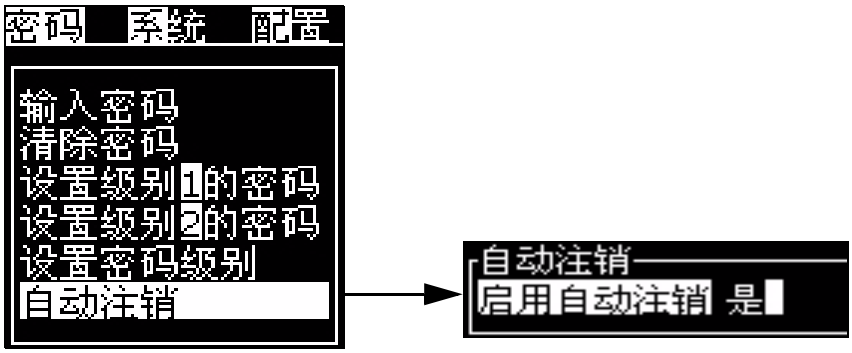


4-12:

Auto Logout

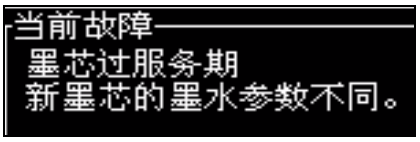
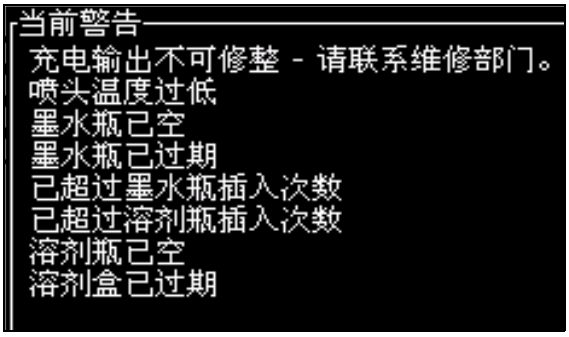
0 0
UI

Alt + w *Auto Logout* 4-13
Enter *Yes* *No*



4-13:

System (4-1)

Alarms 	
Warnings 	
States 	

4-1:

Calibrate 4-2

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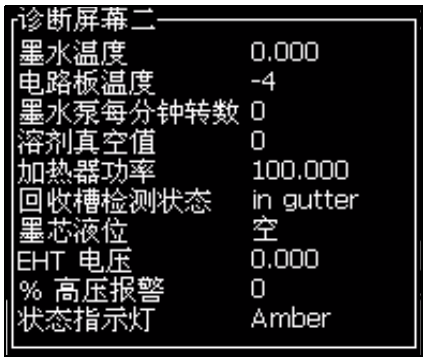
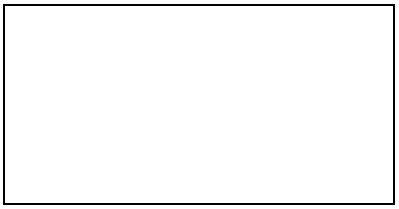
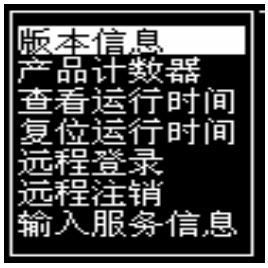
Diagnostics

	0   *Esc*

4-2:

Data Logging (4-14)



4-14:

4-15:

Version Information 4-15

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- CE
- CE
- CSB
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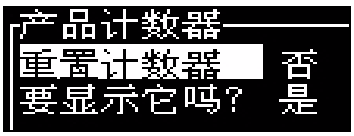
1 *Data Logging* *Alt+D*

2 *Data Logging* *Product Counter*

3 *Enter* 4-16



4-16:

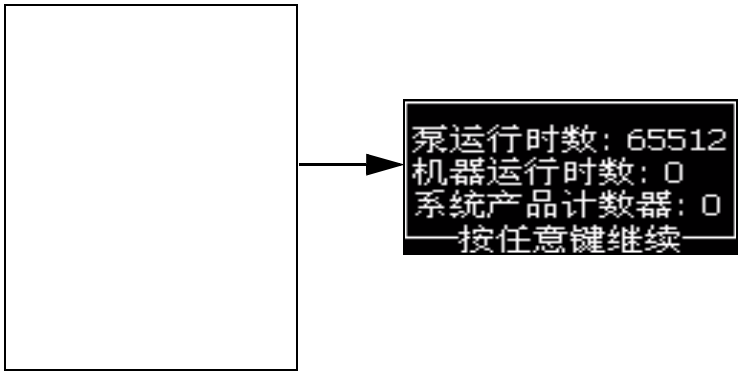
4 *Reset Counter*
“ Yes ”

5 *Enter*

1 *Display it?*
“ No ”

2 *Enter*

1 *Data Logging* *View Run Hours*
4-17 Run Hours



4-17:

2

4-18:

RS-232 RS-485 Videojet 1210

3

Baud Rate

Data Bits Sto

Stop bits

4 *Enter*

COM

1 *Data Logging* 4-10 4-14

2 *Log Onto Remote*

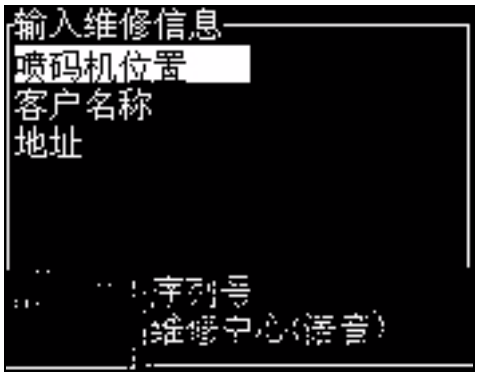
3 *Log Off Remote*

1 *Data Logging* *Alt+D*

2 *Enter Service Information*

Enter *Enter Service Information*

4-22



4-22:

3

Printer Location	
Customer Name	
Address	
Serial Number	
Service Centre ( )	Videojet

4 *Enter*

5-16 “ ”

Print ņ “ ᵘ Ģ b ! 5

4-3 *Print Control*

Shaft Encoder Source	Internal External *A* *B* *B* *A* Auto Encoder	
Photocell Source	External 1 1 External 2 2 *"None"* *Photocell Source*	
Print Acknowledge	COMM	
	1. Off	
	2. After Compile	
	3. After Print	
	4. Both	
Print ACK ASCII code ACK ASCII	ASCII 0 255	
Throw distance		

4-3:

Print

Manual Print (4-16 4-23)

Continuous Print (4-16 4-23)

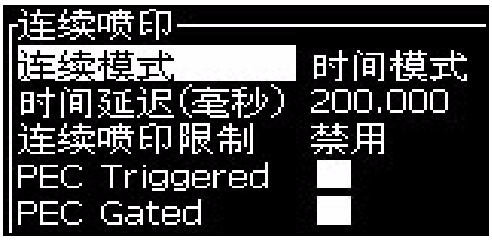
1 *Print Menu* *Continuous Print*
Continuous Print 4-25

4-25:

2 *SE Mode SE*

4-26: SE( )

3 *Time Mode*



4-27:

4 1 10,000

5 *Distance Mode*

连续喷印
连续模式
喷印间距模式
喷印间隔(英寸)
8.000
连续喷印限制
禁用
PEC Triggered
PEC Gated

4-28:

DIN

DIN

1 F1

2

- Print > Print Enable
  Print Control
  Enable
-
-
- Configure >
  Photocell Levels

LED

-
- LED
-

Print > Print Enable
Print Control Disable

F1

Ink Core Level High ”

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(UI)

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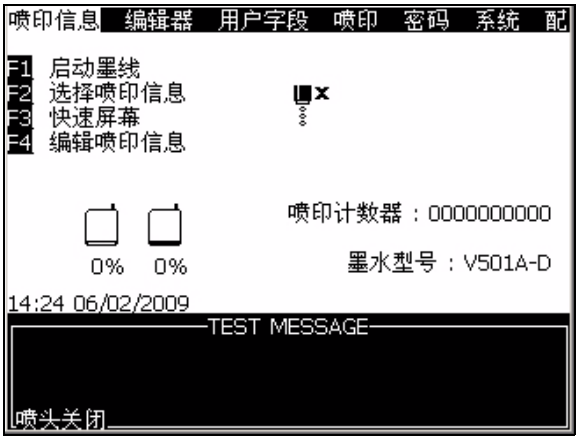
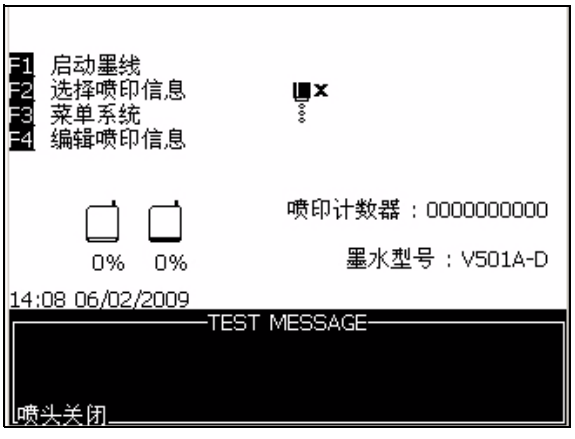

喷印信息 编辑器 用户字段 喷印 密码 系统 配
F1 启动墨线
F2 选择喷印信息
F3 快速屏幕
F4 编辑喷印信息
喷印计数器：0000000000
0% 0%
墨水型号：V501A-D
14:24 06/02/2009
TEST MESSAGE
喷头关闭


F1 启动墨线
F2 选择喷印信息
F3 菜单系统
F4 编辑喷印信息
喷印计数器：0000000000
0% 0%
墨水型号：V501A-D
14:08 06/02/2009
TEST MESSAGE
喷头关闭

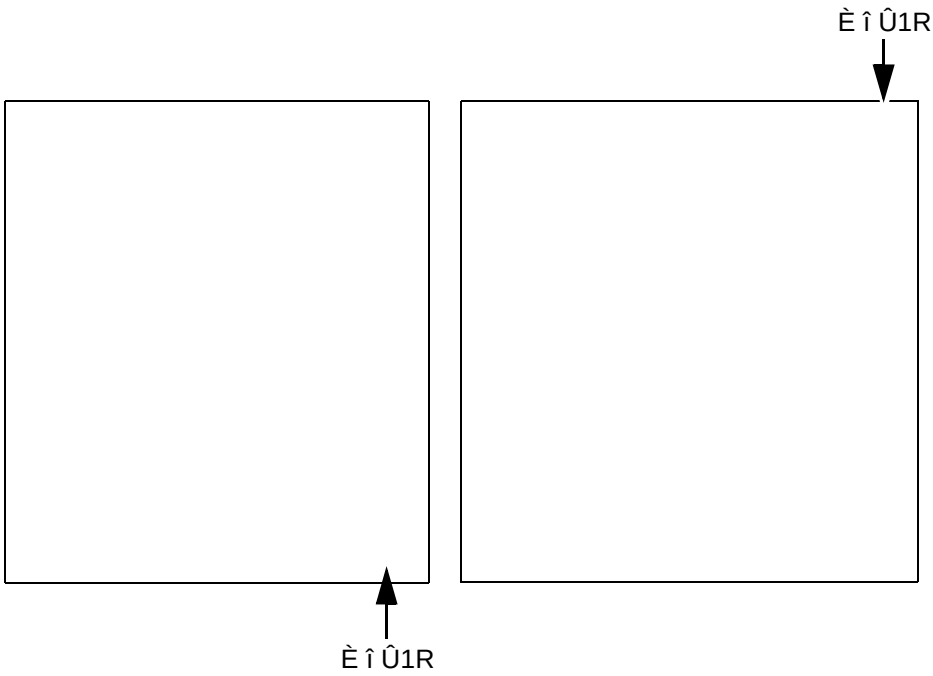
5-1:

5-1 5-1

5-5 5-2

	1. 2. *Enter*
	1. 2. *Enter*

More *5-3* *5-2*



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Esc

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F1 *F4* UI

Alt *Ctrl* UI

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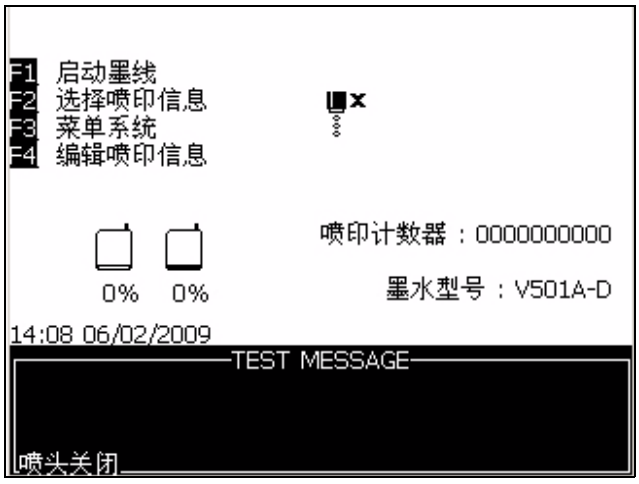

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5-5 5-2

Alt Ctrl Alt

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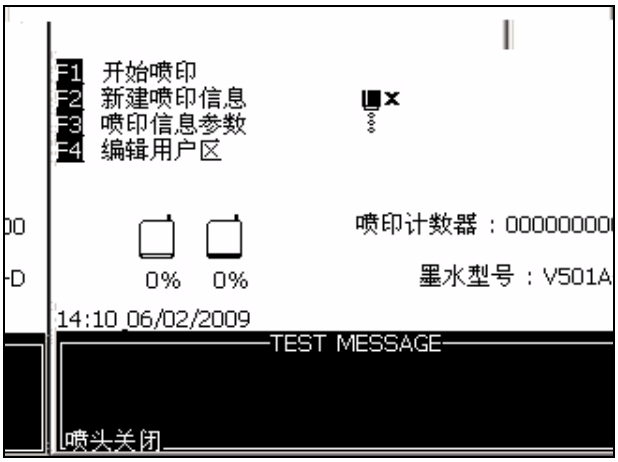
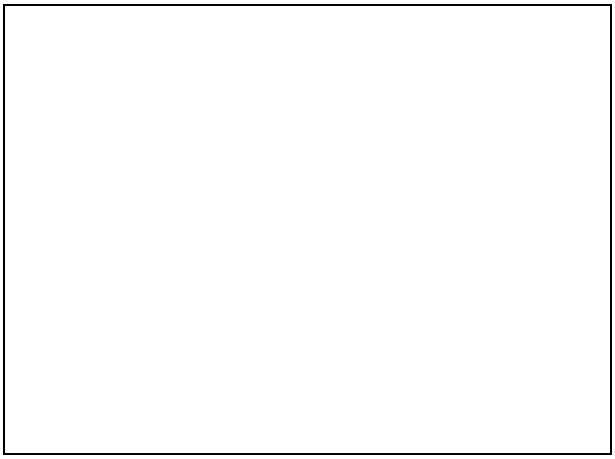
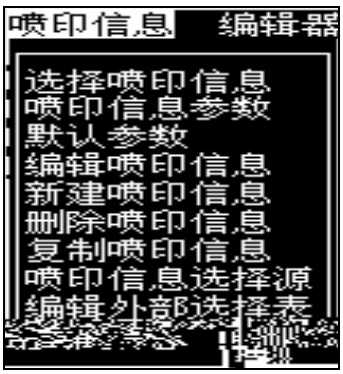
	
F1	“ ”
F2	New Message
F3	Message Parameters
F4	
Ctrl	
	
F1	“ ”
F2	Nozzle Flush
F3	Continuous Print
F4	USB

5-2:

	Select Print Message	*Select Message To Print*
	Message Parameters	
	Default parameters	*Default Parameters*
	Edit Message	*Select Message to Edit* *Editor*

5-3:

	New Message	*New Message* *Editor*
	Delete Message	*Select Message to Delete*
	Copy Message	*Copy Message* *From* *To* *"Already exists. Overwrite it?"* Y N
	Message Select Source * PCB3 Videojet 1510 Videojet 1210	*Message Select Source* *Internal* *External*
	Edit External Select Table * PCB3 Videojet 1510 Videojet 1210	*External Message Select* *F2*
	Delete All Messages	

5-3:

*

PCB 3

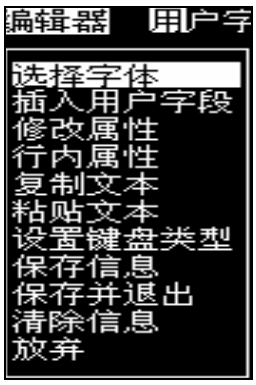
Message Editor *Editor*

Message Editor *Editor*

“Only used when in Editor

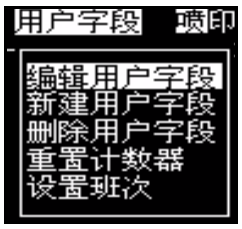
”

1

	Select Font	*Select Font*
	Insert User Field	*Select user field*
	Modify Attributes	*Editor Attributes* “ ”
	In-line Attributes	*Editor Attributes*
	Copy Text	
	Paste Text	
	Set Keyboard Type	*Select keyboard Type*
	Save Message	
	Save and Exit	
	Clear Message	
	Abandon	

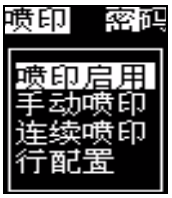
5-4:

1

	Edit user field	Select user field to edit • Text Attribute • • Edit logo
	New user field	New User Field Name Description • Text Text Attribute New Field • Counter New counter • Logo Edit logo
	Delete user field	Delete User Field
	Reset Counter	Select counter to reset
	Set Shifts	shift

5-5:

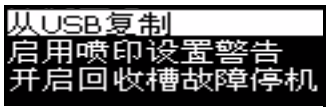
2

	Print Enable	Print Control Print Enable Disable
	Manual Print	
	Continuous Print	Continuous print Off Distance Mode SE Mode SE Time Mode SE mode delay SE Time mode delay 1 10000 Distance Mode SE Time Mode
	Line Configuration	Line Configuration

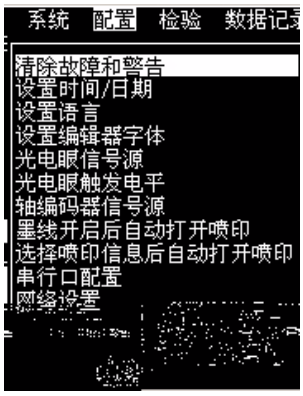
5-6:

	Alarms	4-8 “ ”
	Warnings	
	States	
	Clean Start Jet	Starting the jet
	Quick Start Jet	*Starting the jet* Quick Start
	Clean Stop Jet	
	Quick Stop Jet	
	Nozzle Flush	*F1*
	System Flush Purge	*Enter* “Are you sure YES-NO - ”
	Umbilical Purge	*Umbilical Purge* *Umbilical Purge* *Enable* *Disable*
	Empty Ink Core	
	Fill Ink Core	

5-8:

	Flush Ink Core	
	Copy from USB USB	U /
	Print Setup Warnings Enable	
	Gutter Fault Shutdown Enable	*Machine Control* *Enable* *Disable*

5-8:

	Clear Alarms and Warnings	
	Set Time/Date /	Real Time Clock RTC *Set time/date* / Day Month Year Day number Hour Minutes Seconds

5-9:

	Set Language	*Select prompt language*
	Set Editor Font group	• • • • • • • *(5-28 “ ”)*
	Photocell Source	*Print Control External 1 1 External 2* 2
	Photocell Levels	
	Shaft Encoder Source	1 2 1210
	Auto Print On Jet	
	Auto Print On Select	
	Serial Port Configuration	
	Network Settings	

5-9:

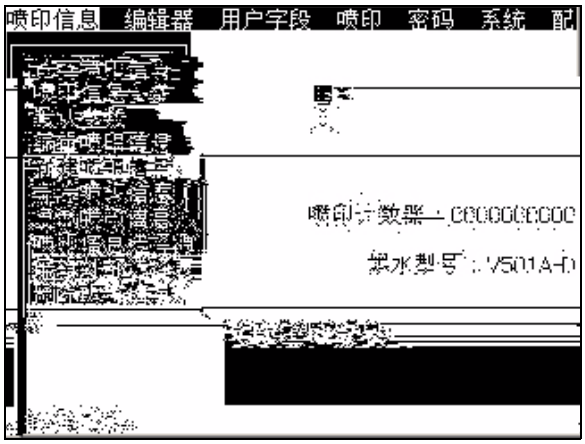
“ / / ”

1510

Backup System Settings	
Restore System Settings	
Full System Backup	
	U
Full System Restore	U
System Update	
Set Hejra Date	
Select Alternative Zero	Select alternative zero
Special Printing Mode	DIN
Remove Raster	
Protocol Configuration	

1 *Alt + M* *Messages*

Alt + F2



5-4:

2 *New Message* *New Message*
5-5

3

31

5-5:

4 *Enter* Message Editor
5-17 5-6

5-6:

70 34 1510 25
1210

Default Text
Selection 5-18 5-7
No Text Selected

5-7:

Ctrl + Ctrl +

5-10

	Caps
	Caps Lock

5-10:

A-8

“ ”

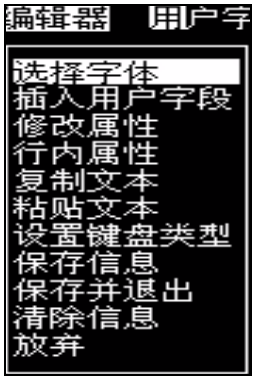
F1 5-8

5-8:

Editor

1 Alt+E F1 Editor

5-9



5-9:

2 Select Font Select Font

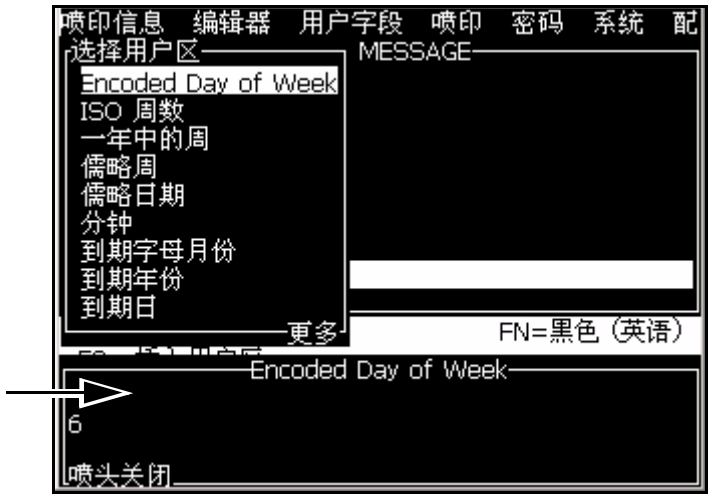
5-10:

3 Enter

-
-
-
-
-
-

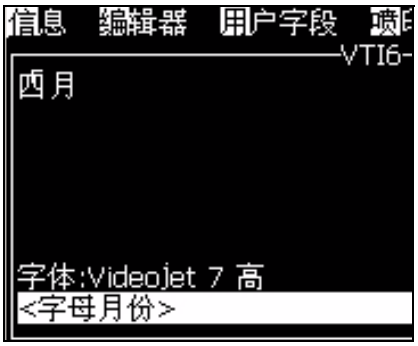
5-36 “ ”

1 *F2* *Editor* *Insert User Field* *Select user field*



5-11:

2 *Enter* *Alp Month* 5-12



5-12: –

•

Check sum “ ”

Videojet 1510 “ ”

0

“ ”

Human Readable N p

Videojet 1510

White on Black

1

a. *Enter*

b. *Ctrl* + *Ctrl* +

2 *F3* *Editor Attributes*

“Use custom font

Tower print *Barcode* *Check sum*

Human Readable *Datamatrix Density*

Videojet 1210

3 Ý ß Þ • åK K ê5Ù ß • åK K È,È EÝ n LÔ,X 2 û !6
Ä><)„ Ö Û ! b 2 û á,XOj +!¡ ßM6 ÅÄ

4 Ý ß Ç • åK K EÝ ½ 2 û È' â Ý ß º1• K ª#\ 2 û Ä

|E¬ Ã ¹ ý*ü0N K 9EÝ ½ ê5Ù ª#\ 2 û Ä

5 'A'5B Q Ý,X LÔ 2 û Ê È Ý ß (Q W\k H ŁU ,A'5B JE¨ ²
0 H V V D J H (G L W R U Ä ą C4êEe < Å

> Y 2 û

"¼ ã ÖEÝ ½,X Y • Ã ¹ h*ü î þ 2 û Ä

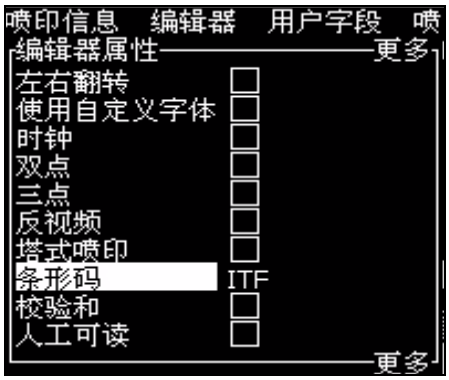
Ý'; ¹ ß ¡ 0 È [,X 2 û Ö

1 ¢ (G L W R U Ä4êEe) EÝ ½ , Q O L Q H $ W W U L E X W H V Ä> Y 2 û
Ä Ý $ / 7 (ÅÄ Î)„ (G L W R U L V E Ä X e e H 2 û Ä °)
ÄAË –KÙ1 -

2 *F3* *ALT + E* *In-line Attributes* *Editor Attributes* (5-24 5-14)

3 *Barcode*

4



5-14:

5

“ ”

6

Human Readable

7 *Enter* *Editor Attributes*

8 Message Editor

EAN-8

5-15:

9

> 5-12

5-27 5-16

Expiry	0 32767	
	“Display until ”	
	“Best Before ”	“ ” “ ”
Hej Exp		
Width	0 255	1 “ ”
Character Height	1 10	1 10
Character Gap	0 9	0 9 / 10 0 1
Product** Delay **	0 10,000	
Reverse	On/Off /	
Invert	On/Off /	

5-12:

Raster Repeat	1 10	/
Max Printed dots		
Raster Substitution		ON
Select Raster		

5-12:

1 Alt+M Messages

2 Default Parameters 5-27 5-16

3

4 *Enter* Message Editor

Message Parameters

1 *Alt* + *M* *F4* *Editor* *Messages*

2 *Messages*

1 5-16 “ ” 1 4 Message Editor

2 *ALT + E* *Editor*

3 *Editor* *Set Keyboard Type* *Select Kbd Type*

3 *U î/¦Ñ‹Ð?U O 9°/Å*

1 Alt+M Messages

2 Messages Edit Message
Select Message To Edit

5-19:

3 Message Editor

Message Editor

f1

1. Videojet 1510 5 7 9 12 16 24 34

2. Videojet 1210 5 7 9 16 24

3.

f2

f3

f4

shift + f1

Copy Message

1 Alt+M Messages

2 Copy Message Copy Message

5-20:

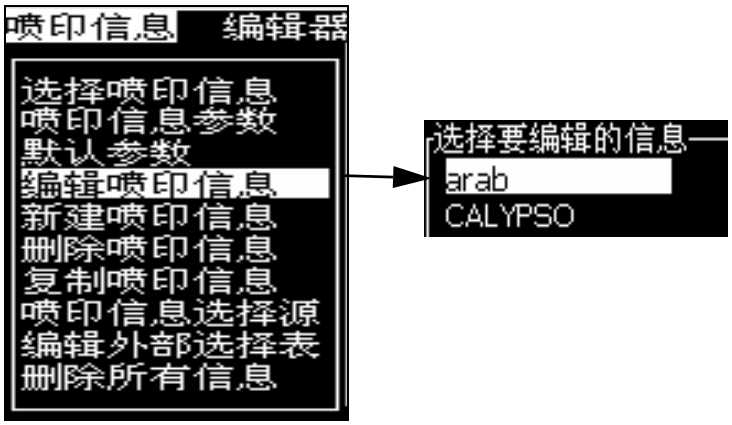
3 From

4 To

5 Enter Menu

1 Alt+M Messages

2 Edit Message Select Message To Edit 5-21



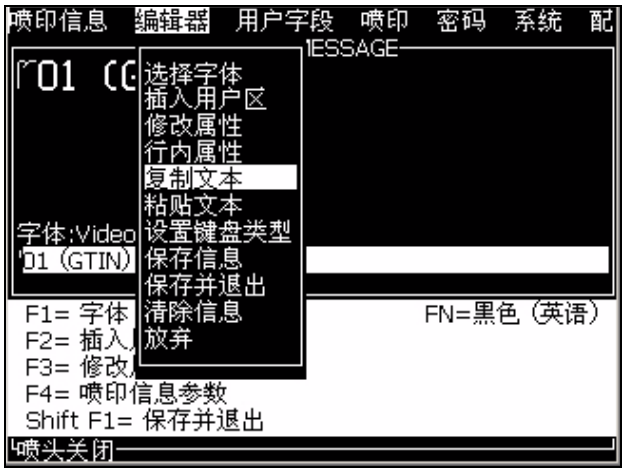
5-21:

3 Enter message editor

4 Ctrl + Ctrl+

5 ALT + E Editor

6 *Editor* *Copy Text*



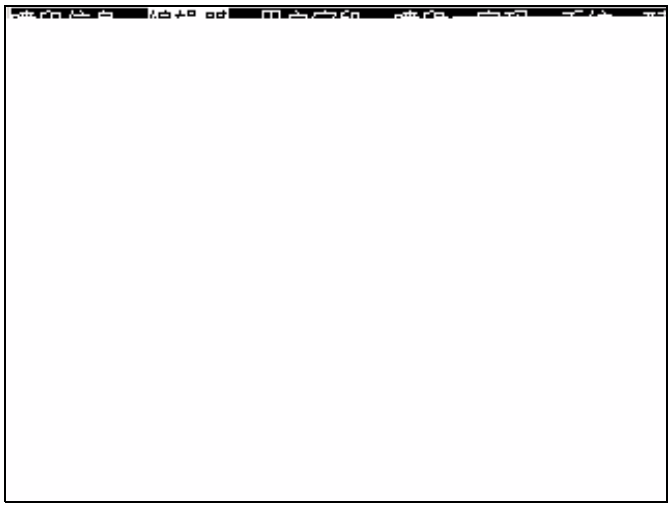
5-22:

1 5-30 “ ” 1 3 *Editor*

2

3 *Alt+E* *Editor*

4 *Editor* *Paste Text*



5-23:

5-26:

Save and Exit

- *Editor* *Save and Exit* 5-27
- *Shift + F1*

5-27:

1 5-16 “ ” 1 4 Message Editor

2 Abandon Editor

Videojet 1210

1 Alt+M Messages

2 Message Select Source
Message Select Source

3

4 Enter Message Editor

5 Messages

6 *Edit External Select Table*
External Message Select

5-30:

7

8 *F2*

9 *Enter*
Message Editor *Esc*
Message Editor

-
-
-
-

5-13

		APR
		06/11/07
Date - YYYY	*Date* 4	06/11/2007
Day		14
Day of Week	1	5
Expiry Alpha Month	MMM	MAR
Encoded Day of Week		C
Expiry Date		07/12/07
Expiry Date - YYYY	*Expiry Date* 4	07/12/2007
Expiry Day		14
Expiry Month		03
Expiry Year	2	08
Hour	24	17
ISO Week ISO		
Julian Date	(1-365*) * 366	152
Julian Week	1 - 52 53 54 1 1	1-52 53 54

5-13:

Minute		05
Month		03
Second		57
Shift	5-53 “ ”	B
Time		09:06:28
Week of Year	*4*	36
Year	YYYY	2008

5-13:

1 5-16 “ ” 1 4
Message Editor

2 Message Editor *F2*
5-37 5-13

5-31:

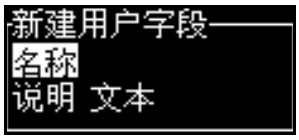
3

4 *Enter*

1 Alt+U User Fields

5-32:

2 New User Field Enter
New User Field



5-33:

3 User Field

Enter

Down

4

- 5-41 “ ”
- 5-43 “ ”
- 5-45 “ ”

Text Enter

5

6 Attribute Normal
Text

- Normal Text
- Clock Information
- Prompted Field

5-34:

7

8 Enter

Text

- Text
- Clock Information Clock Codes

A	1 7
BC	
DE	
FG	
HI	
JK	
LM	
NOP	
QRS	
TU	
VW	

5-14:

- Prompted Fields

5-42

“ ”

1 5-40 “ ”
1 3

2 *Description* *Tex*t

3 *Enter* 5-35

5-35:

4 *Text*
5-41 5-14

a.

b.

c.
DE/FG/BC

5 *Attribute* *Clock Information*

6 *Enter* *Time Insert*

Message Editor *F2*

-
-

1 5-40 “ ”
1 3

2 Description

3 *Text*

4 *Enter* 5-36

5-36:

5 *Text*

6 *Attribute*

7 Prompted Field

8 *Enter* *Prompted Field Length*
5-37

5-37:

9
50

50 *50*

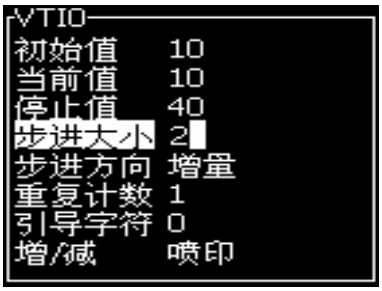
10 *Enter* *Prompted Field Length* 5-20 “
”

1 5-40 “ ”
1 3

2 *Description* *Down*

3 *Counter* *Left* *Right*

4 *Enter* 5-38



5-38:

5 *Counter Configuration*
5-38

Start Value *Current Value* *End Value*
1 *500* *Start Value* *Current Value* *001* *1*

0 *9* *A* *Z*

6 *Enter* *Counter Configuration*

Start Value	
Current Value	
End Value	

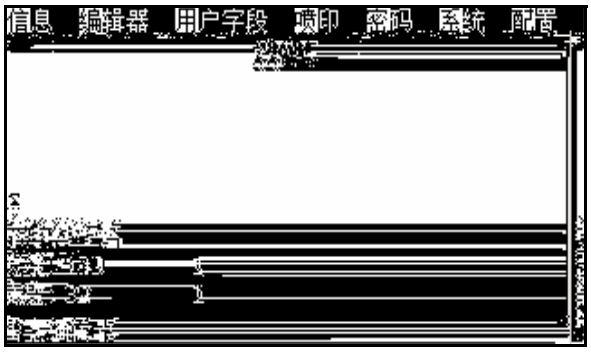
Step Size	2 “a, c, e, g”
Step Direction	Increment Decrement
Repeat Count	
Leading Character	“0”
Inc/Dec on /	*Print*

7 *Enter*

5-20 “ ”

1 5-40 “ ”
1 3

2 *Logo* *Logo Editor*



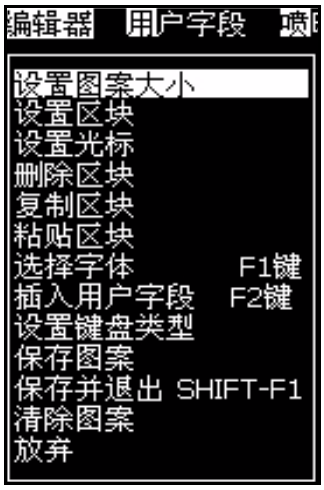
5-39:

3

5-46 5-15

Logo Editor Alt+E Editor

Logo Editor



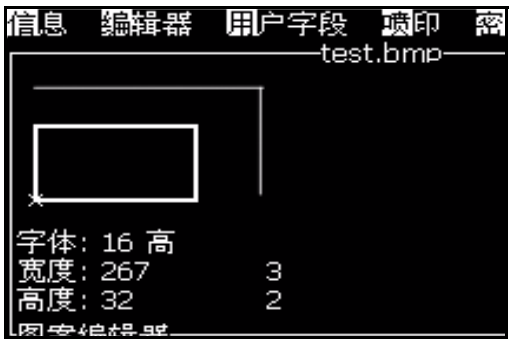
5-43:

5-16

alt + , , ,	

5-16:

1 *Enter* (5-44)

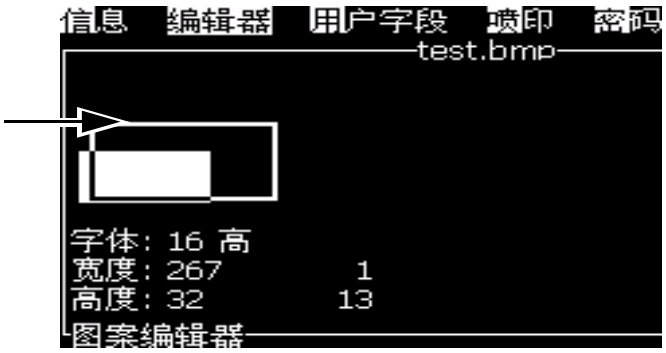


5-44:

2

5-48 5-16

logo editor



5-45:

ctrl + ◀ ▶	
shift + ◀ ▶	
shift + ▲ ▼	

5-17:

ctrl + ▲ ▼	
◀ ▶ ▲ ▼	
alt + ◀ ▶	

5-17:

Enter

Set Cursor

Delete Block

Copy Block

Paste Block

Select Font

F1 Select Font

Insert User Field

F2 Insert User Field

Set Keyboard Type

Enter

Save Logo

Save and Exit

Shift + *F1*

Save and Exit

Clear Logo

Logo Editor

Abandon

5 *Alpha Month* 5-47
5-42 “ ” 5-41 5-14

5-47:

1 *Alt+U* *User Fields*

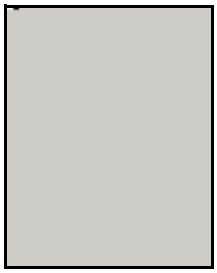
2 *Delete User Field* *Delete User Field*

3

Delete user field

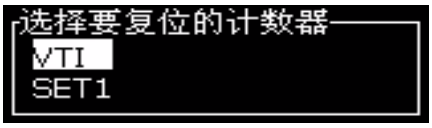
1 Alt+U *User Fields*

2 *Reset Counter* 5-48



5-48:

3 *Select Counter to Reset*



5-49:

4 *Enter*

Set Shift

1 *User Fields* *Enter*

2 *User Fields* *Set Shift*

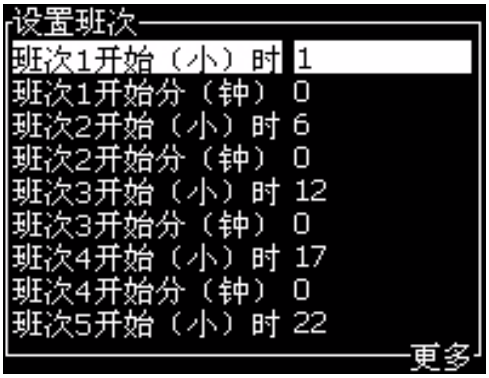
3 *Enter* *Set Shifts*
5-54 5-50

4 1
7:15
7
15

5
4

24 “15”
3:00

2 1
3 1 2



5-50:

6 “0”

7

5-18

A	A	B	C	D	E
1	1	2	3	4	5
4	4	5	6	7	8
d	d	e	f	g	h

5-18:

8 Enter Set Shifts

6

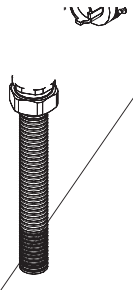
70°C

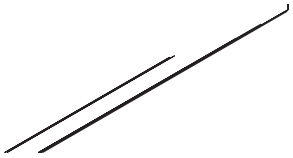
6-1

	6 “ ”
	• • *6* “ ” *6* “ ”
2000	

6-1:

-
-





1 6-1

2 4

3 “ ”

5

4 1 6-2
2

6-2:

5 (6-4 6-3)

a.

b. “ ”

c. “ 100 ”

6

a.

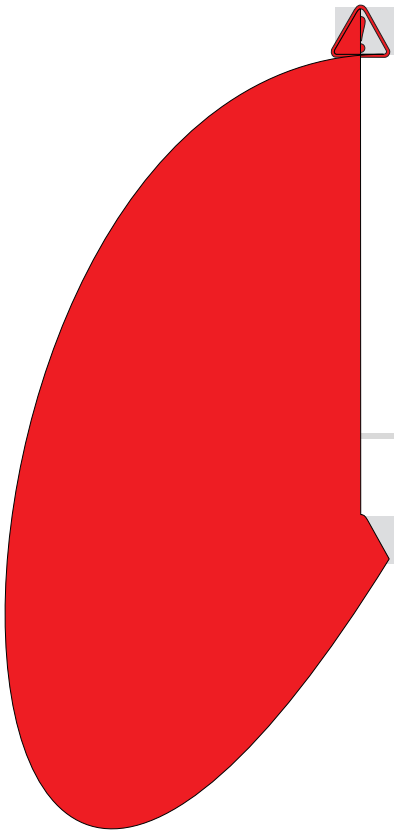
b. “ ”

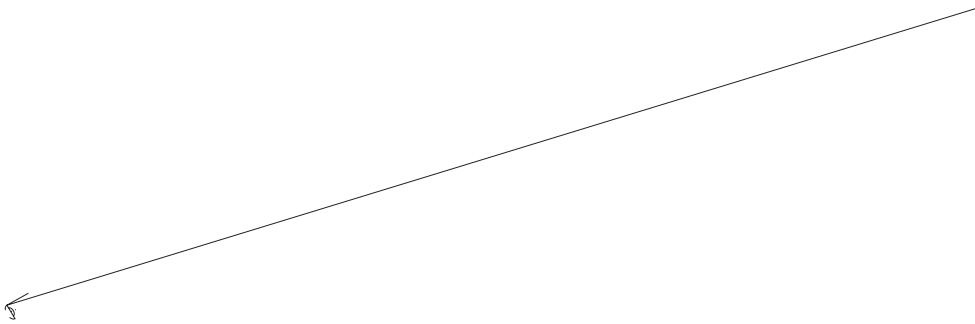
c. “ 100 ”

1

/

15





1 399085

2

- 6 6-4
- 7
- 5 " "
- 4

3

20 /

1

2

7

70° C

1

2 LED 7-1

پ ١ ، ١ b

3 LED
7-6 “ ”

4 LED

-

- VTI @ 1-800-843-3610
  Videojet
  Videojet

5 LED

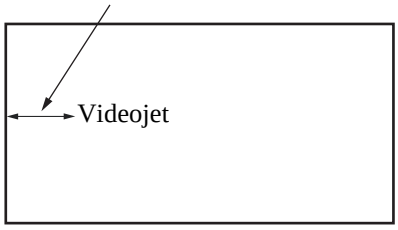
a.

b.

c. ON

d. VTI @ 1-800-843-3610

1 *Message Parameters* *Product Delay* 5-25 “ ”

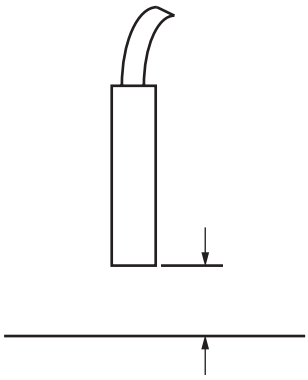


7-1:

2

1 5-18 “ ”

2



7-2:

3 5-29 “ ”

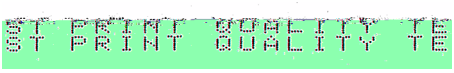
A-7 *A-6*

4 *Message Parameters*
5-25 “
”

5 *Message Parameters*
5-25 “
”

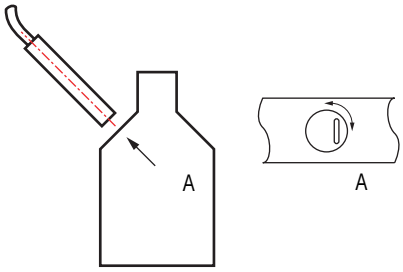
1 *Message Parameters* *Max Printed Dots* /
5-25 “ ”
A “ ”

2
6-5 “ ”



7-2

7-2:

“ ”	
PRINT QUALITY TEST PRINT QUALITY TEST	90 

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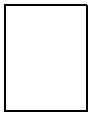
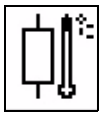
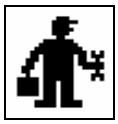
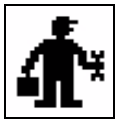
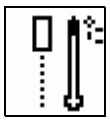
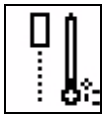
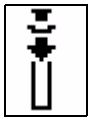
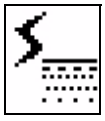
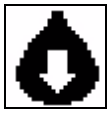
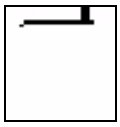
		Videojet
		80 Videojet
		9000 1510 6000 1210 Videojet
-		Videojet
-		Videojet
		Videojet
		/ Videojet
-		Videojet
-		Videojet

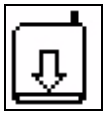
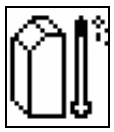
7-4:

		3 Videojet
		Videojet
		3 Videojet
-	TOF	10% Videojet
-	TOF	10% Videojet
-		Videojet
-		Videojet
		
		Videojet
		>0.1 Videojet

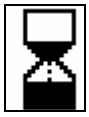
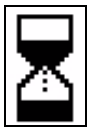
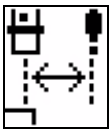
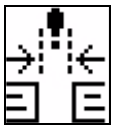
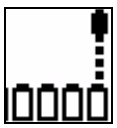
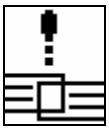
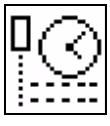
7-5:

		> 0.1 Videojet
		>0.2 Videojet
		>0.2 Videojet
-		
		
		0%
-		

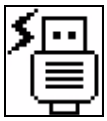
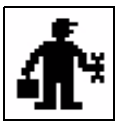
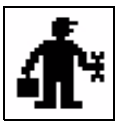
7-5:

		
-	/	/ Videojet
-		
		5
		70 Videojet
-		/
		98% Videojet
		—
-		Videojet
		— Videojet

7-5:

	0.5%	0.5% 45 1510 30 1210 Videojet
	2%	2% 180 1510 120 1210 Videojet
	5%	5% 450 1510 300 1210 Videojet
		Videojet
		Videojet
		PEC Videojet
		Videojet
		Videojet
	TOF	“ ” TOF

7-5:

-		Videojet
-		Videojet
-		Videojet
	USB	USB Videojet
-		Videojet
-		Videojet
-	!!!	Videojet
-		Videojet
	DAC	CSB Videojet
	DAC	CSB Videojet

7-5:

A

A-1

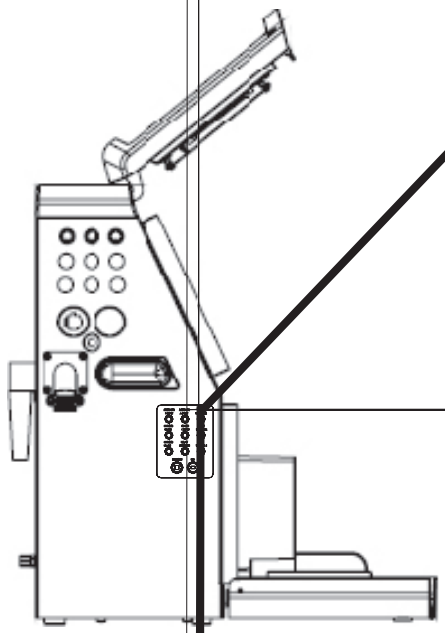
	80 V AC - 260 V AC
	50 Hz - 60 Hz
	120

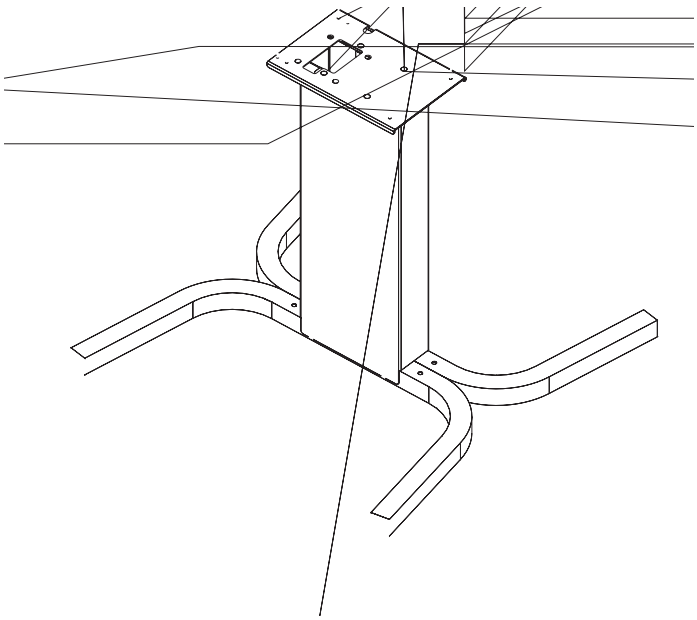
A-1:

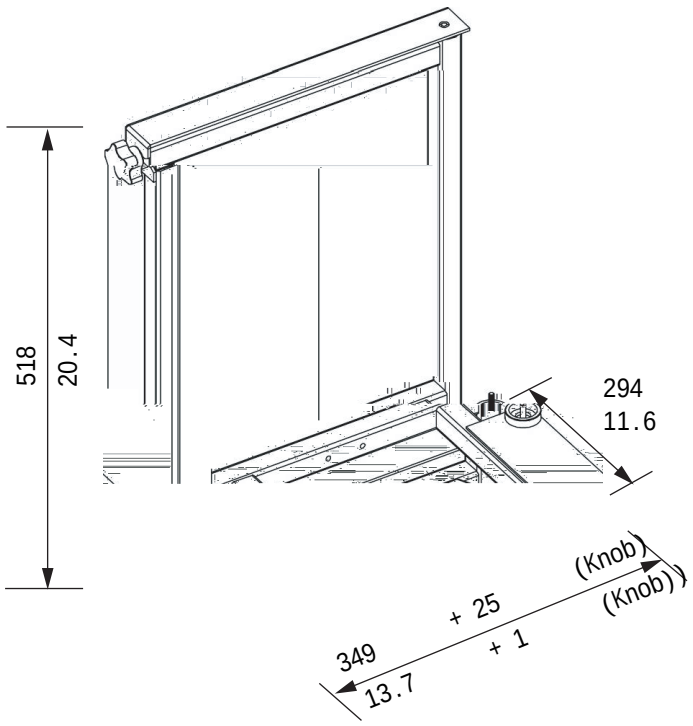
A-2

	18

A-2:







A-6:

A-3

		345
		541
		285
		41.3
		70
	1510 3 6 2 **1210** 2 3 6	-
	IP55 IP65	-

A-3:

A-4

	5°C 45° C 41° F 113° F
	10° C 18° F
	0% - 90 %
	5 °C 50° C 41° F to 122° F
	IP55 Videojet 1210 Videojet 1510 IP65 Videojet 1510

A-4:

A-5

	750
	750

A-5:

A-6

2	
12 (1510) 8.5 (1210)	

A-6:

A-7 A-8

1510

		/	/	Cal.		
				/	/	
1x5	5	7	10971	914.3	278.7	6
1x7	7	8	9600	800	243.8	6
1x9	9	18	4267	355.6	108.4	8
1x12	12	25	3072	307	92	10
1x16	16	37	2076	194	59	11
1x24	24	67	1146	95.5	29.1	17
1x34	34	120	640	41	12	26
2x5	12	25	3072	256	78	6
2x7	16	37	2076	194	59	6
2x9	20	54	1422	118.5	36.1	6
2x12	26	75	1024	102	30	6
2x16	34	120	640	65	20	11
3x5	20	54	1422	118.5	36.1	6
3x7	25	71	1082	90.1	27.5	6
3x9	34	120	640	53.3	16.3	8
4x5	26	75	1024	85.3	26	6
4x7	34	120	640	53.3	16.3	6
5x5	34	120	640	53.3	16.3	6

A-7:

1210

10 x 10

CIJ

CIJ

“ ”

“ ”

LCD

(LCD)

LED

LED

“ ”

PLC

30 “ ”

30 “ ”

RS-232

Videojet 1210/1510

WYSIWYG

WYSIWYG