

# **Table of Contents**

1	Satety precautions	2	
	1.1 Safety using ethods	2	
	1.2 Definition of warning symbols	2	
2	Standard accessories	5	
3	Product Structure Diagram	6	
4	Details frames amd installation	6	
	a. Leg frame installation	6	
	b. Installation and use	7	
	c. Power connection	7	
	d. Serial RS232 cable and USB cable connection		7
	e. USB cable	8	
	f. SD Card (Secure Digital Memory Card)	10	
	g. Media installation	13	
	h. knife setting and adjusting	13	
	i. Drawing pen installation	14	
5 (	Operating instructions	14	
	a.Control Panel illustration	14	
	b. Off-line/On-line	15	
	c. media moves and car moves	15	
	d. speed and pressure debugginge. pause function	۱	16
	e Pause function	16	
	f. Setting the origin	16	
	g. Media test strip debugging	17	
6.	Flexi software installation	17	
	a. Flexi operation	20	
	b. Automatic cruise edge (Optional)	22	



# **1 Safety precautions**

To ensure the operator can correctly use the vinyl cutter, and prevent damage of vinyl cutter, please follow the instructions with the signs below.

### a Safety using methods

ARNING	Any improper operation possibly results in hazard of life or damage of equipment.
CAUTION	Any improper operation possibly results in hazard of life or other objects.

### b. Definition of warning symbols

WARNING
Don't use the power source not meeting rating voltage, otherwise fire or electronic shock may be resulted in.
If the machine gives out smoke or unpleasing smell, or noise sounds please do not use it in such case, continuing using it may result in fire or electronic shock.

	X		
V	ics	iar	n

http://www.vicsign.com User manual of H		HWQ series vinyl cutter
$\bigcirc$	Do not put out the plug when the power is on to avoid damage to the machine.	
Ţ	Make sure electrical grounding when will electric shock and machine can't will electric shock and machine can't w	it is working. Otherwise it work normally.
Â	Don't detach, repair or reconstruct the and electric, hazard of life may be res	e machine, otherwise fire ult in.
	Don't leak any liquid or drop metal into the machine, such things may result in fire.	
	Don't touch the knife top with your finger to prevent injury or perspiration of knife head.	ß
	Do not damage or random replace the supplied power cable, do not excessively bend, pull, bundle the power cable or place weight on it. Otherwise the power source may be damaged even fire or electric shock is thus incurred.	
	To unplug the power cable from replace, please hold the plug instead of the cable. Strongly pulling of the cable possibly result in electric or fire.	



User manual of H w Q series villy cutter
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When operating the machine, do not place either of your hands on capstan to avoid injury.





	Place the machine on a stable surface, otherwise the machine may fall therefore get damaged.	
	To unplug the power cable from replace, please hold the plug instead of the cable. Strongly pulling of the cable possibly result in electric or fire.	
4	Any operating is forbidden in case of storm or lighting to prevent damage of the machine.	



## 2 Standard accessories

Check following accessories after unpacking, please contact the seller or our company if you find anything missing.

Item:	Parts	Quantit y	Picture	Note
1	Power cable	1		Standard
2	USB cable	1		Standard
3	RS232 cable	1		Standard
4	Blade group	1		Standard
5	Blade	3		Standard
6	Pen group	1		Standard
7	Warranty Card	1		Standard
8	CD disk	1		Standard



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### 3. Product Structure Diagram



Platform 2. Cover 3. Control Panel 4.Carriage 5.Blade holder
 Pinch roller group 7. Trim strip 8.Upper cover plate 9. I/O Plug-in and Switch
 RS232 serial port/USB port/SD port interface

## 4 Installation

### a Leg frame

We only supply floor stand for HW1200 and HW630, and the floor stand for HW1200 is a standard equipment, but for HW630 is optional.



Take out every party of the stand from the packing box, turn on the party bag, and install the stand according to the illustrational showing. Lay the cutter on the stand after install, aim at and install spiral shell, then lock with the screw.

### **b** Installation and Use

1 Place the cutter in a plane and roomy place, and make sure there is 300mm room place around the cutter.

- 2 Notes on Location (Do not locate the plotter in any of the places listed below)
  - A place exposed to direct sunlight
  - A place that vibrates
  - A dusty place
  - A place where temperature or humidity varies significantly

### c Power connection



Check the electrical connection and power supply voltage before you connect plotter's power.



### d Serial RS232 cable and USB cable connection

1.Connection Methods



Warmly remind: RS232 serial wire and USB wire are those two isolated wire, when connection only need one of those two wires.

2. Connected display

After connecting RS232 serial port, using COM1 port to transfer out on it directly.

### e USB cable

USB driver suits for 32 bits&64 bits CPU,WindowsXP、Vista、Windows7、 Windows8.Depends on your computer system configuration, chose the corresponding driver, then double click "setup.exe"

Open the CD, find the USB driver



Click (as show in the figure), click next (Next)



Click" I accept the terms in the license agreement", click "Next"



Choose "Complete" to install all necessary features then Click "next"; wait for a moment , Click "finish", make it completely installed.

Vicsign Setup. exe Setup Leuncher soft. netnest. com. cn	uth_dev_serial.inf 安美信題 2,30
	🖟 usb32basic - InstallShield Vizard
	Setup Type Choose the setup type that best suits your needs.
	Please select a setup type.
	Complete     All program features will be installed. (Requires the most disk     space.)
	Custom Choose which program features you want installed and where they will be installed. Recommended for advanced users.
	InstaliShield

32bit driver Manual installation method:

Connect USB cable with the PC and the machine, switch on the machine, the computer will automatically appear dialog "Found New Hardware Wizard" as shown:

Select "from the list or specific location", click next

 Image: Notice of the sector of the sector

Into view, select "search for the best driver in these locations." and "Include this location in the search:" select the USB driver file path, click Next, as follows:

Found New Hardware Wizard		
Please choose your search and installation options.		
Search for the best driver in these locations.		
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.		
Search removable media (floppy, CD-ROM)		
Include this location in the search:		
C:\WINDOWS\system32\drivers Browse		
O Don't search. I will choose the driver to install.		
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.		
< Back Next > Cancel		

Click Finish to close the wizard after installing, as follows:

Vicsign	http://www.vicsign.com	User manual of HWQ series vinyl cutter
Found New Hardwar	e Wizard	
	Completing the Found New Hardware Wizard The wizard has finished installing the software for:	
	Click Finish to close the wizard.	
	K Back Finish	Cancel

Open the computer's device manager, below dialog displays the USB drive, the interface in software should be same as device.



f SD Card (Secure Digital Memory Card)

1 open the software and complete the drawings and save as the PLT format. Note: the document name in Arabic or English words can not exceed 12 characters.

There are two methods to create PLT file.

a.After choosing the correct model No, then appears "How is your HW630 connecting to the computer",select "FILE", click "finish"

	http://www.vicsign.com	User manual of HWQ series vinyl cu
What do you want to	all your new setup?	
Hyq630-AM		
Now is your HWQ630-A	L connected to your computer?	
✓ Prom	t for file path for each file	
□ Use o	ustom extension:	
C:\Pro	location gram Files\FlexiSTARTER 10.5.1 VicSign Editic	
1	Browse	
	Back Finish	Cancel

b.Select report mode "save as files", then click "send" and promptly save as PLT format.

630-AML@COM1:	Job	Stat
operties 🍻		
] 🖫   🖫		
Material		
28.740 x 600.000in		<u> </u>
😫 [73.000 cm 📑	<b>‡</b> ] 1524.000	)cm
Send mode: Seve to	file	<b></b> ]
Position		
[]↓ 2.540 cm 🛨	🖵 2.540 cm	<u>.</u>
		al
	<u>× L</u>	1
Size		
↔ 13.261 cm 🛁	⊟_]  100.000%	
🛨 17.756 cm 🕂	E Rit to m	odio
	1 110 00 1	leura
Copies		
	4. 0.000 cm	

.

\*Note: File can report as PLT file in Artcut and CorelDraw software.





2 Insert SD card into the machine, press "Origin", press the arrow keys up and down to find the appropriate file, press "Enter", then it will start working.



\* When take off the SD from the machine, please do not extract directly, tap the SD card with your hands slightly and it will pop up.



User manual of HWQ series vinyl cutter



### g. Media installation

- 1 Media storage and use precautions
- After opening the package, store the media in a cool dark place to avoid sunlight and water
- Do not place the print media to erect in order to avoid edge damage
- Do not fold and stack the print media
- Do not use bruised, wrinkled, curled, or stained with dust medium
- Do not drop or wet the print media
- Need to tidy up before installation media
- 2. The machine used for single media, but also for rolls of media.
- 3. Main operation methods of using the media
- (1) To press the pressure roller handle at the back of the machine, lift the pressure roller



(2) Insert the media correctly.

(3)Move the roller to cover the steel shaft claw, it can ensure the best tracking length when you allow the media away from the machine both at left and right place.



(4) Handle the stage, and press the media.



### h. Knife set and adjusting



Don't touch the knife top with your finger prevent injury.

a. Install the knife into the holder. Rotate the knife sheath to adjust the length of exposed part of knife tip. Blade holder exploded as shown below, the detail operation are described as followed:

分解图



b. For different material, users can adjust the length of knife sheath exposed at any time.



Too long protruding length of knife tip



Too short protruding length of knife tip

c. Install the blade holder into carriage

- Loosen the screw of tool carrier
- Assemble the blade holder into the tool carrier
  - When the tool is in appropriate position, tighten the screw.

### i. Drawing pen installation

The installation method for pen group is basically the same as blade holder, except for adjusting the nib.





## **5** Operating instructions

## a Control Panel illustration



1. Offline pause	1.Switch On-line state to Off-line state
	2, Can be suspended when cutting.
2. Origin	1. press" """" to move car and " " to move media, then press"
	Origin" button to make old coordinates cleared, and set up new origin.
	2, Press the button at online state to read SD card file,
	press" $\mathbf{\nabla}$ "," $\mathbf{\Delta}$ " select file, then press "Enter" to work
3. Test	Text cutting effect
4. Reset	Reset and clear cache memory data on main-board.
5.Enter	After selecting SD file, press button, machine operates order.
6.Mode	1,Change "blade mode" to "pen mode"
	2,MPX,MPY to adjust override.

### b Off-line/On-line

When the cutter starts or resets, it becomes in online state. Press "Offline/Pause" button to switch to off-line state. When computer transmits signals to the plotter, the plotter must be Online. The LCD will display the Speed/force information as follows:



### c Media moves and car moves

The plotter is offline, press the left arrow key "< " the car moves, press the right arrow key " " " the car will move to right. Press the up arrow keys " " " the media feed roller will lead to move forward, press down arrow keys, the media feed roller will lead to move backward. LCD "XY" coordinates after moving with the numeric value will change accordingly.



### d Adjusting speed and pressure.

In line with local state and send the process of carving knife pressure and speed of testing, debugging speed increase speed by value increment key, key to decrease the value by value reduction, testing the pressure to increase the pressure by value increment key By numerical reduction to decrease the pressure.



18 / 29



### e Pause function

During plotter output, press the "Off line / Pause" button, the plotter will be in suspended state and displays the coordinates of the current document processing parameters. As shown:



### f Setting the origin



The lower right corner as the absolute origin of the media, the user can be set based on their own to the appropriate position, after moving off a good bit about setting up/down and left/right keys, press the "Origin" button coordinates cleared, the new origin is set up, carving output from the knife from the new origin.

### g Media test strip debugging

Locate the position of car and media, press "Test" button, the machine will automatically cut out a square and triangle, and tear-out the test strip by hand, if can be easily opened, and not carved through the adhesive, indicating that debugging is good, if tear-out with the associated media, you need to increase the blade pressure or adjust the knife extended tip, then continue to press "Test", the machine will automatically cut the left side of the original location of test strips, you need to do this before you testing well.





## 6. FLEXI software installation

Put FLEIXI CD into CD ROM, open files and click "Autorun.exe" install the software. In the process of installation, please don't insert dongle on computer, so to prevent dongle driver cannot be installed.



Select "I agree the terms of the license agreement" then click "Next"

Vicsign

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cense Agreement		
Please read the following license a	agreement carefully.	
Software License Agreement		<b>.</b>
IMPORTANT READ CAREFU contract between You (as defined EnRoute, or PixelBlaster branded This Agreement (as defined be the Software from SA Internationa using the Software. This Agreeme license; and (iii) original equipment	ULLY: This Agreement (as defined below) is a legal d below) and SA International Inc. for Flexi, PhotoPrin I Software (as defined below). elow) sets forth the terms and conditions for licensing al Inc. and You (as defined below), and installing and ent applies to any (i) single-user license; (ii) multi-user it manufacturer (DEM) or Special Edition (SE) version or customized versions unless otherwise agreed	nt, g of is of
BY OPENING THE SEALED I BY OPENING THE SEALED I DOWNLOADING THE SOFTWAI	PACKAGE CONTAINING THE SOFTWARE OR RE FROM AN AUTHORIZED ON-LINE SITE, OR	•
the Software and other branded o BY OPENING THE SEALED I DOWNLOADING THE SOFTWAI	PACKAGE CONTAINING THE SOFTWARE OR RE FROM AN AUTHORIZED ON-LINE SITE, OR se agreement <u>P</u>	rint.
the Software and other branded o BY OPENING THE SEALED I DOWNLOADING THE SOFTWAI I accept the terms of the licens	PACKAGE CONTAINING THE SOFTWARE OR RE FROM AN AUTHORIZED ON-LINE SITE, OR se agreement <u>P</u> le license agreement	<u>▼</u> rint
<ul> <li>the Software and other branded on BY OPENING THE SEALED I DOWNLOADING THE SOFTWAI</li> <li>I accept the terms of the licens</li> <li>I do not accept the terms of the Shield</li> </ul>	PACKAGE CONTAINING THE SOFTWARE OR RE FROM AN AUTHORIZED ON-LINE SITE, OR se agreement <u>P</u> le license agreement	rint

#### Select the installation path, click next.

hoose Destination Location		
Select folder where setup will install files.		
Setup will install FlexiSTARTER 10.5.1 VicSign	n Edition in the following folder.	
o install to this folder, click Next. To install to another folder.	a different folder, click Browse and	l select
Destination Folder		
Destination Folder C:\\FlexiSTARTER 10.5.1 VicSign Edition	í 📃	Bīowse
Destination Folder C:\\FlexiSTARTER 10.5.1 VicSign Edition		B <u>rowse</u>

PIs insert dongle on computer, and input password, it will automatically show ID number of user, as follows:



duct Selection nter your password, ben choose your product and language	
Run in demo mode	
Password	User Number
Optional Password	•
duct	Language
	<b>_</b>

Select language, click "done" and software will finish installation, then it will auto fix desktop shortcut.

Run in demo mode	
assword	User Number
NML9-WULH-V38J-HG44-QHGA-HRJA-XDV7-7XMQ	730290
ptional Password	
	Ð
6	-
uct.	Language

#### a..Flexi operation

1,open Flexi software,make new file or open other files,click cutting/draw button" T to send file



2, the software automatically switches "Add Setup" dialog box, select brand name and model name accordingly, click Next, as follows:

hoose	ad	levice		
What	is	the brand name of your vinyl cutter?		
	1	Vicsign	•	
What	is	the model name of your Vicsign?		
	Ì	HWQ630-AML	•	
	What What	What is What is	What is the brand name of your vinyl cutter? Vicsign What is the model name of your Vicsign? MWQ630-AML	What is the brand name of your vinyl cutter? Vicsign What is the model name of your Vicsign? HWQ630-AML

User manual of HWQ series vinyl cutter

### 3, select connected method.

۵.

\*Caution:please check and make sure the Flexi interface port is the same as Device Manager shown,otherwise machine can not work.

Add Setup				
Add Setup What do you want to call your new setup? HWQ630-AML_1 How is your HWQ630-AML connected to your USB_Frinter_0	Those two should the sa computer?	port	Plevice Manager         File Action View Help            ← → III            ← → IIII            ← → IIIIIIIIIIIIIIIIIIIIIIIIIII	
B;	sck Finish	Cancel	<ul> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27C8</li> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27C9</li> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27CA</li> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27CB</li> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27CB</li> <li>Intel(R) N10/ICH7 Family USB Universal Host Controller - 27CB</li> <li>USB Root Hub</li> </ul>	

4. Please choose the port the same as cut output port, the other parameter is the same as handshare agreement (above picture)show, baud rate: 38400 hardware handshake agreement: "RTS" and "CTS"



/Q630-AML@COM1:	Job	Stat
Properties 🛛 🐲		
Material		
28.740 x 600.000in		
🕂 173.000 cm 🛁	<b>↑</b> 1524,000 c	<u> </u>
Send mode: Send nov	v	•
Position		
🚺 🛃 2. 540 cm	📮 2.540 cm	<u> </u>
	<u>× L</u>	
Size		
🔶 20.054 cm 📃	100.000%	
📮  26.851cm 🚞	🔽 Fit to me	dia
Copies		
	. 000 cm	_
	THE PARTY OF THE P	

5.Enter into the above cutting interface, set the overcut to 0, and then click properties.

🔽 Overcut:	
Extra cut length:	0.03cm 🔆

6. Set the 0.036mm at knife effect, and the rest are same as following shown:

	n: 40.000	÷ 5	teps/mm	
Passes:	1	<u>.</u>		
🔽 Advanc	e after plo			
☐ Send a	rc commands			
🔽 Knife	offset:	0.040 cm	<u>+</u>	
T Packet	size:	8	÷ KB	
Curve qu	lity			-
Hi	gh _	• 0.003 cm		



### b Automatic cruise edge (optional)

1. Open Flexi Software, import the graphic, click the blank part of image, the software will auto switch to "design center" dialog, setting the cutting material size, for example, if you need cut in A4 size material, set the size to "A4" as the picture show as below.

2. Support format of shaped outer contour cutting are: PSD、PNG



3. Select the image, then click the "effect" in menu, click "contour cut", set the proper contour line from outer to image, depend on your demands, click "ok" to confirm. As the picture show, contour line can adjust depend on your demands.





User manual of HWQ series vinyl cutter



4. Then click the "effect" in menu, click "Contour Cut Mark", SA automatically mark after cutting accuracy is the most accurate, as the picture show:



5. Print ready files, note: the print proportion of printer is 100%

26 / 29





C Fit drawing to paper	
Fit border to paper	
Scale:	
100 cm = 1m (100%)	-

6. Put the printed graphic to machine, the image need to put straightly.

7. Offline, let the blade move to the red dot place as following picture show(That is, The bottom right hand corner as medium absolute origin ), press "Origin", after Coordinates reset, the new origin is ready, the plotter output will come from the new origin for cutting.



Click "cut contour" and send nge <u>Iext Effects Mindow Help</u> Click "cut contour" and send Clic

8. FLEXI software will automatically pop-up dialog, such as: machine brand name chose" Vicsign", select the model name/number of the machine

-Ch	oose a devic	:e				
Y	hat is the	brand name of	f your vinyl	cutter?		
Y	Yics That is the	nodel name of	f your Vicsi	gn?	<u> </u>	
	HWQ6	30-AML			•	

User manual of HWQ series vinyl cutter

9. Click" Next", please notice: if use USB port, please open the computer "device manager" to check if the port selected in Flexi is the same as the interface of Computer driver installation configuration. If not the same, the signal can not sending.

Add Setup	🚇 Device Manager 📃 🗖 🗙
What do you want to call your new setup? This two ports	File Action View Help
HSQ630-AML should the same	
How is your HSQ630-AML connected to your computer?	<ul> <li>B S Computer</li> </ul>
COM1: Browse	⊕ UD/CD-ROM drives     ⊕ G Ploppy disk controllers     ⊕ L Ploppy disk controllers     ⊕ L Ploppy disk drives
Bits per second: 38400	G IDE ATA/ATAPI controllers     Keyboards     Mice and other pointing devices
Data bits: 8	Monitors
Stop bits: 1	Service (Communications Port (COM1)
Flow control: Hardware	Stellars USB serial port (COM3)
Hardwires DTR PRS DCD DSR PCTS	
Back Finish Cancel	

10. The select port should be the same as cutting output port, other parameter setting and hardware handshake as the above picture show.Baud rate: 38400 , hardwires: "RTS" and "CTS"



11. Click send, can cut/plotter the file.