User's Manual PG-32200 Series PG-32400 Series Pattern Generator with Logic Analyzer

Revision II Software Win98/me/2000/xp/Vista



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Item Checklist

- 1. The PG-32200 / PG-32400 Series Plastic unit.
- 2. There are 4 models of PG-32200 Series and PG-32400 Series.
 - PG-32200K: (200MHz, 256 K Memory).
 - PG-32200M: (200MHz, 1 Mega Memory).
 - □ PG-32400K: (400MHz, 256 K Memory).
 - □ PG-32400M: (400MHz, 1 Mega Memory).
- 3. Four harness with color wires and 50 pcs Easy Hook clips.
- 4. PG-32200 / PG32400 Series User's Manual X 1.
- 5. CD for PG-32200 / PG-32400 Series driver X 1.
- 6. USB 2.0 cable X 1 (Mini Type).

System Requirements

In order to use the PG-32200 /PG-32400 Series, the following equipment is necessary:			
Computer System:	Pentium PC system with at least one USB interface		
	(USB 1.1 or 2.0 version).		
Memory:	A minimum of 256 MB free RAM. 512 MB or 1GB is better.		
Mass Storage:	At least one CD drives and hard disk drives.		
Display Adapter:	At least one of VGA Adapter (Resolution 1440x900 is better).		
Monitor:	Any monitor compatible with the above display adapter.		
Operation System:	Windows 98/ME/2000/XP.		

Installing Hardware

Installing PG-32200 / PG-32400 Series with USB 2.0 cable.

Please follow these instructions for installing the PG-32200 / PG-32400 Series with USB cable.

- 1. Turn off the computer and all peripherals connected. Remove the computer power cord from the wall outlet. Locate an available USB (version 1.1 / 2.0) interface.
- 2. Connect the included USB cable to USB interface.
- 3. Connect the other end of the USB cable to the PG-32200 / PG-32400 Series USB port.
- 4. After checking all connections, turn on the computer and peripherals. You are now ready to install the software.

LED Display

When USB cable connected PG-32XXX is ready the LED color indicate "GREEN". When PG-32xxx program running the LED color indicate "YELLOW".

Installing Software

- 1. Insert the distribution CD into drive E: (hear "E" is CD driver).
- 2. Run E: \PG-32200\Setup.exe.
- 3. Follow the on screen instructions.

Guide To Operations

When making measurements with the Logic Analyzer, meaningful data can only be captured with some prior knowledge of the characteristics of the circuit under test. before initiating any capture cycles, the Logic Analyzer must be configured using the control program. See the software section later in the manual for instructions on these procedures. To connect the Logic Analyzer to the test circuit, a series of mini-clips on the Logic Analyzer Pod for the Logic input channels. The Logic Analyzer has inputs for 32 channels, At times, it may also be necessary to connect the test circuit to the computer system itself. This will eliminate more noise in the test application due to ground level differentials. This is especially true when dealing with high speed timing analysis. Use a heavy gauge wire to make a connection between the test circuit ground and the case of the computer.

Main Screen

M PG32200/256k - [Timing view	with the second s						
	<u>C</u> olor <u>W</u> indow <u>H</u> elp						
		1 T-v1=	750.ns T	-v2=-750.ns v	1-v2=-1.5	us (666.667KHz)	
Config 0000 32out - Captu	ure Normal 💌 <u>R</u> ate	100MSa/S 💌	Zoom x2	✓ Depth 4k	▼ <u>E</u> v	rent True 💌	 3.09us
I/O type LVC1.8V				4k 64k			🔹 🕨 4.59us
Threshold 900.mV	3.84us			256k 512k			• • 2.34us
D7-D0 Grp0 O				512k 1M			
D15-D8 Grp1 0							
Channel-0 0 1100					nanannannannan		
Channel-1 1 0100						00000000000000000000000000000000000000	
Channel-2 2 1000							
Channel-3 3 0100							
Channel-4 4 1000					'		
Channel-5 5 1000							
Channel-6 6 0100							
Channel-7 7 0000	Succession and the second s			ſŊŊ			M
Channel-8 8 1100							
Channel-9 9 0100					www		
<mark>Channel-1010</mark> 1000 Channel-1111 0100							
Channel-1212 1000							
Channel-1313 1000	(45)53						
Channel-1414 0100	Textos	· · · · · · · · · · · · · · · · · · ·					
Channel-15150000				nn		N	M
Channel-1616 1100							
Channel-17 17 0100		mmmmm	MMMM	mmmmm	www	nnnnnnn	www.www.
Channel-18 18 1000		uuuuu		uuuuuu	տոփ	mmm	nnnn
Channel-1919 0100							
Channel-2020 1000							

The data is displayed as a timing waveform. Each channel is displayed in it's own color.

Channel names, numeric value of data at each cursor and scrollbars are also in this view.

The window can be zoomed in or out to show just a few samples or the entire buffer.

Data can be displayed on screen as a timing waveform.

Each channel can have a user-specified name and can be displayed in any sequence.

Channels can be also be grouped together into busses and viewed in ASCII, hexadecimal, decimal, binary, or in user defined mnemonics. Time between V1bar, V2bar, and Trigger is displayed.

Zoom scales of 1/200X to 50X (horizontal). Indicator of current position of buffer shown on screen. The color of each channel can be set independently.

Horizontal Scroll Bar



This scroll bar is used in conjunction with a selected waveform or cursor.

The Horizontal Scroll Bar will move a selected waveform or cursor left or right in the Display area.

The Horizontal Scroll Bar works with Display, Logic Analyzer channels, V1Bar, V2Bar, and Trigger Cursor.

Hardware Specification

PG-32400 Series Specifications

Model	PG-32400K [512K]	PG-32400M [2 Mega]	Remark
Pattern update rate	From 1Sa/s t	With 1, 2, 5 Sequence	
Logic sampling rate	110111100/31	0 400 1030/3	
External clock rate	Up to 200 MSa/s		From Ext. clk0 & Ext.clk1 with standard TTL (1.4V Threshold) Combine OR, NOR, AND, NAND
Record length		32Ch: 1M x 2 /Ch 16Ch: 2M x 2 /Ch	Total = (256K / 1M) x 2 x 32 Ch
Number of Channels	Ch 0 ~ Ch31 (Patter GOE — (Globe out 2 External clock.	rn + Logic Analyzer. tput enable active low).	32 Channel Bi-Direction default to Ext.clk0, Ext.clk1 (OR, NOR, AND, NAND)
I/O Bandwidth	DC to	200 MHz	With < 30pF load
Input Impedance	100 K	Ω // 8pF	With 100 Ohm series
Max. input voltage	+10\	/ to -2V	
I/O Type (drive current, threshold)	LVC2.5V (16mA, 1.2V)		Drive current (Balance source and sink) Standard Logic I/O.
Output enable delay	Typical		Input/Output Bi-Direction change
Channel skew	Typical •	< 200 ps	
Trigger position	-67M to 256K / 512K	-67M to 1Mega / 2Mega	Any position for user defined
			Any position for user defined
Max. Trigger speed Trigger Qualify	· · · · · · · · · · · · · · · · · · ·		Simultaneous trigger Pattern and Logic channel
Power Supply	No External Power Source Require		From USB Port < 450mA
Net Weight	120 Grams		
Size (Dimension)	107mm x 77mm x 16mm		
Accessories		⊦ clips, USB 2.0 cable al, CD driver	

PG-32200 Series Specifications

Model	PG-32200K [256K]	PG-32200M [1 Mega]	Remark
Pattern update rate Logic sampling rate	From 1Sa/s t	o 200 Msa/s	With 1, 2, 5 Sequence
External clock rate	Up to 100 MSa/s		From Ext. clk0 & Ext.clk1 with standard TTL (1.4V Threshold) Combine OR, NOR, AND, NAND
Record length	32Ch: 256K x 2 /Ch	32Ch: 1M x 2 /Ch	Total = (256K / 1M) x 2 x 32 Ch
Number of Channels	Ch 0 ~ Ch31 (Pattern + Logic Analyzer. GOE — (Globe output enable active low).		32 Channel Bi-Direction default to Ext.clk0, Ext.clk1 (OR, NOR, AND, NAND)
I/O Bandwidth	DC to	100 MHz	With < 30pF load
Input Impedance	100 K	Ω // 8pF	With 100 Ohm series
Max. input voltage	+10\	/ to -2V	
I/O Type (drive current, threshold)	LVC2.5V (16mA, 1.2V)		Drive current (Balance source and sink) Standard Logic I/O.
Output enable delay			Input/Output Bi-Direction change
Channel skew	Typical < 200 ps		
Trigger position	-67M to 256K / 512K	-67M to 1Mega / 2Mega	Any position for user defined
Max. Trigger speed	100MHz / 10ns		
Trigger Qualify			Simultaneous trigger Pattern and Logic channel
Power Supply	No External Power Source Require		From USB Port < 450mA
Net Weight	120 Grams		
Size (Dimension)	107mm x 77mm x 16mm		
Accessories	Color wires Harness + c User's Manual, CD drive		

I/O Pin Location



File Menu	The File menu offers the following:			
	Cave setting This option source the surrent settings to a setting file (ini)			
<u>File View Setup Backup Searc</u>	Save data This option saves a data file (.La) depend on Depth setting.			
Save <u>S</u> ettings Save <u>D</u> ata	Transfer data to Excel This option will convert data to Microsoft			
Transfer data to <u>E</u> xcel				
Load Settings Ctrl+S	Excel by decimal, hexdecimal, ASCII.			
Load Data	Load setting This option loads a previously Setting file (.ini).			
<u>L</u> oad Pattern	Load data This option loads a data file (.La), with a setting			
Load Default Settings	file (.ini) together to viewer memory.			
✓ <u>A</u> uto Load Settings	Load pattern This option loads a data file (.La), with a setting			
Page Set <u>up</u> Print	file (.ini) together to pattern memory.			
<u>P</u> rint ► Exit	Load Default Setting Reset all parameters to factory defaults.			
	Auto Load settings Auto load PG-32200.ini setting file on			
	program start run to set all configuration.			
	Turns on or turns off the Autoload option.			
	When this option is on, all settings will be			
	loaded when start the program.			
	Print Setup Output style, printer and printer connection.			
	This option brings up two dialog boxes:			
	1. Print settings allows you to configure what to output.			
	2. Print Setup dialog box allows you to configure			
	Print Screen This option allows you to print Screen (Hard copy).			
	Exit Exit Program.			
	Use this command to end your session. You can also use			
	the Close command on the application Control menu.			
	the close command on the application control mend.			

View Menu		The View menu off	ers the following:
<u>V</u> iew <u>S</u> etup <u>B</u> ackup <u>S</u> Channel Height ▶	earch <u>C</u> ol ✔ 20	Channel Height	Select display Channel Height as 20, 24, 28, 32 pixels.
Group Height	24 28 32	Group Height	Select display Group Height as 24, 28, 32, 36 pixels.
Zoom Align from >	32	Time or Samples	For Timing display, display Time like as 12.34ms, or display how many samples.
		Zoom Align from	Set cursor Bar {(V1, V2, Trigger, Screen (left or center)} for zoom operate reference.

Setup Menu

<u>T</u> rigger word	Ctrl+T
<u>E</u> xternal Clock	Ctrl+E
Send Pattern	•
<u>G</u> roup Edit	Ctrl+G
<u>M</u> nemonic Edit	Ctrl+M
Initialize(Hardware)	Ctrl+I

Trigger Word

					-
Trigger Set					×
	D31D24	D23D16	D15D8	D7D0	
🔿 Qualify0	******	*****	*****	11111111	V1Bar
Qualify1	01111111	11110000	*****	*****	V2Bar
🔿 Qualify2	11111111	11111111	11111111	11111111	
🔿 Qualify3	11111111	*****	*****	*****	Trigger
Group0		D15D0	*****	******	
C Group1		D7D0	*****	11111111	ок
C Group2		D3D0	*****	*****	
C Group3		D11D0	*****	11111111	

Set Trigger word for digital channel 31-0 or Group0-3.

The Trigger word backup four Qualify data and four Group data for quickly set digital trigger. You can setup from V bars.

External Clock

External Clock setup 🛛 🛛
External clock
• Ext.clk0 or Ext.clkl
C not (Ext.clk0 or Ext.clk1)
C Ext.clk0 and Ext.clkl
C not (Ext.clk0 and Ext.clk1)

Two external clock combine logic OR, AND, not OR, not AND for select.

Group Edit
Group edit 🗙
Group1 16 bits - Hex - D15-D0 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
Group2 8 bits Decima D7-D0 15 14 13 12 11 10 9 8
Group3 4 bits Decima D3-D0
Group4 12 bits Oct D11-D0 27 26 25 24 23 22 21 20 19 18 17 16
Channel select
OK 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16
Edit channel 31-0 for Group Channel, every Group Channel supports 16bits Max.

could be display in hexdecimal, decimal, binary, octadic, ASCII code.

Mnemonic Edit

Mnemonic setup	×
Group select Group1 💌	ОК
☑ 0000xxxxxxxxxxx	Read
☑ 0001xxxxxxxxxxx	Write
D010xxxxxxxxxx	memRead
0011xxxxxxxxxxxx	memWrite
D100xxxxxxxxxx	Reset

Initialize (Hardware)

This option allows you to restart PG-32200 or PG-32400.

Toolbar

- GO The Go command tells the PG-32200 to start acquiring data when the trigger conditions are satisfied. Pressed means Start capture, un-pressed means stop capture. Moves one or more cursors to the display area. These commands are also available by clicking on the toolbar.
- Moves Trigger Bar, V1Bar and V2Bar onto the waveform display area.
- Centers waveform display area around V1Bar.
- Centers waveform display area around V2Bar.
- Centers waveform display area around the Trigger Bar.

Edit Pattern data.

Pattern Editor

Pattern Edit 🛛 🔀
H L INV INP OUT
Clock Rate /2 💌
Counter Up Binary 💌
Depend on Clock
12C Create
00000010
Address byte R <u>W</u>
0 0 0 0 0 0 1 0 A
MS data byte Ack
00000100 🔏
LS data byte Ack
Mark Block
✓ Next block
Copy data loop 1
from Ch-0 👻 🔺 Copy
to Ch-0 🖵 Paste
from 280 • • k
to 280 • • ->
🗖 Shift data 💶

The Pattern Generation is completely integrated with the PG-32200. The two operate from the same clock source, whether the internal clock or the external clock. Patterns can loop continuously, loop until the Logic Analyzer triggers, or once on the users command. Allocation of channels between the Logic Analyzer and the Pattern Generation is in groups of 8 channels. Channels can be all logic analysis, all pattern generation, or any multiple of eight for pattern generation with the remaining channels as logic analysis. To select the configuration, simply change the "Config" in the software. Pattern generation up to the maximum number of channels of the PG-32200 is supported, limited only by the number of ports.

Patterns can be edited and defined in this window. It's a visual and convenient software. At first, must mark a block use mouse right key, and set **High, Low, Invert** or

Input: set port (8 channels) to input mode.

Output: set port (8 channels) to Output mode.

Clock: there are 5 rate for select.

Counter: up/down count can be depend on Clock or none.

I²C create: can be create I²C stream, just edit Address, Command, Data byte. You can also get data for the pattern data by capturing it from logic channels and copying it to the pattern channels.

Pattern data can also come from data files created by this software or files that you create yourself.

Search Data

Search data		
Defintion	1 Г	Search data
C Group1 v1(16bits)		Search by 💿 V1bar
C Group2 v1(8bits)		O V2bar
🔘 Group3 v1(4bits)		D31-D16
C Group4 v1(12bits)		0010011101001111
V1bar (32bits)		D15-D0
🔘 V2bar(32bits)		0010011101001111
C Trigger(32bits)		Backward Forward

Sorting through all your data is easier with our search feature! You can specify a search pattern, including Don't Care bits, in any shown numeric bases. Then just click on the forwards or backwards search to find what you are looking for !

State				
State dis	play	******************************		×
Mnemon	ic [Key function] 🗍 👃 Home End Page 🕇 Pa	age↓	
Position	D15-D0	Group2	Group3	
40	1428	00010100		
41	1429	00010100		_
42	152A	00010101		
43	152B	00010101		
44	162C	00010110		
45	162D	00010110		
46	172E	00010111		
47	172F	00010111		
48	1830	00011000		
49	1831	00011000		
50	1932	00011001	ļ	
51	1933	00011001	1	
52	1A34	00011010	А	
53	1A35	00011010	Q	
54	1B36	00011011	а	
55	1B37	00011011	q	
56	1C38	00011100		
57	1C39	00011100		
58	1D3A	00011101		
<u>59</u>	1D38	00011101		
60	1E3C	00011110		
61	1E3D	00011110		
62	1F3E	00011111 Reset		
63	1F3F	00011111 Reset		
64	2040	00100000 Write		
65	2041	00100000 Write		
66	2142	00100001 Read		
67	2143	00100001 Read	2	
68	2244	00100010 memRead	В	
69	2245	00100010 memRead	B	
70	2346	00100011 memWrite	Ь	
71	2347	00100011 memWrite	r	
72	2448	00100100		
73	2449	00100100		
74	254A	00100101		
75	254B	00100101		
76	264C	00100110		
		00100110		-

State List (Window Menu)

Channels can be organized into groups and displayed on screen in ASCII, binary, decimal, hexdecimal, and user defined mnemonics. Channels can be displayed in any sequence. Time between V1bar, V2bar, and Trigger is displayed.

olor Setup		×
🖸 Background	🔘 Channel 0	🔘 Channel 16
🔘 V1 Bar	🔘 Channel 1	🔘 Channel 17
🕛 V2 Bar	🔘 Channel 2	Channel 18
💿 Trigger Bar	🔘 Channel 3	🔘 Channel 19
🔘 Zoom Screen	🔘 Channel 4	🔘 Channel 20
•	🔘 Channel 5	🔘 Channel 21
Group1	🔘 Channel 6	🔘 Channel 22
🕛 Group2	🔘 Channel 7	🔘 Channel 23
🕛 Group3	🔘 Channel 8	🔘 Channel 24
🔘 Group4	🔘 Channel 9	🔘 Channel 25
	🔘 Channel 10	🔘 Channel 26
	🔘 Channel 11	🔘 Channel 27
	🔘 Channel 12	🔘 Channel 28
	🔘 Channel 13	🔘 Channel 29
	🔘 Channel 14	🔘 Channel 30
	🔘 Channel 15	🔘 Channel 31
Color choice		🗖 User Color 🚽
		Inverse
		ОК

The color of each channel or Group can be set independently.

																	-
000000	00	01	02	03	04	05	06	07	08	09	ØA	ØB	ØC	ØD	ØE	ØF	
000010	10	11	12	13	14	15	16	17	18	19	18	1B	10	1D	1E	1F	
000020	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	This is a Pattern data file.
000030	30	31	32	33	34	35	36	37	38	39	3A	3B	3C	3D	3E	3F	It's huffer length is 414 total
001000	00	01	02	03	04	05	06	07	08	09	ØA	ØB	OC	ØD	ØE	ØF	It's buffer length is 4k, total
001010	10	11	12	13	14	15	16	17	18	19	18	1 B	10	1D	1E	1F	length is 4kx5=20k.
001020	20	21	22	23	24	25	26	27	28	29	2A	2B	2C		2E		0000 to 0FFF for Ch[7:0] (Port0)
001030	30	31	32	33	34	35	36	37	38	39	3A	3B	30	3D	3E	3F	
002000	00	01	02	03	04	05	06	07	08	09	ØA	ØB	0C	ØD	ØE	ØF	1000 to 1FFF for Ch[15:8] (Port1)
002010	10	11	12	13	14	15	16	17	18	19	18	1 B	10	1D	1E	1F	2000 to 2FFF for Ch[23:16] (Port2)
002020	20	21	22	23	24	25	26	27	28	29	2A	2B	2C	2D	2E	2F	
002030	30	31	32	33	34	35	36	37	38	39	3A	3B	30		3E		3000 to 3FFF for Ch[31:24] (Port3)
002040	40	41	42	43	44	45	46	47	48	49	4A	4B	40	4D	4E	4F	4000 to 4FFF for Port input/output
003000	00	01	02	03	04	05	06	07	08	09	ØA	ØB	0C	ØD	ØE	ØF	
003010	10	11	12	13	14	15	16	17	18	19	18	1 B	10	1D	1E	1F	bit0: 1=output, 0=input, for port0
003020	20	21	22	23	24	25			28	29	2A	2B	2C	2D	2E	2F	bit1: 1=output, 0=input, for port1
003030	30	31	32	33	34	35	36	37	38	39	3A	3B	30	3D	3E	3F	
004000	ØF	ØF	ØF	ØF	ØF	bit2: 1=output, 0=input, for port2											
004010	ØF	ØF	ØF	ØF	ØF	bit3: 1=output, 0=input, for port3											
004020	ØF	ØF	ØF	ØF	ØF												
004030	ØF	ØF	ØF	ØF	ØF												

Window USB Driver Install Windows 98/ME USB driver install

When USB2.0 control interface be connected to computer, screen will display





Edit or browse path to ...\USB20driver\win98_ME\gene.inf (here D: is CD location, dso25216 may be dso29xx or la5000b or pg32200 or pg32400) Click Next to continue



Click Next to continue



Completing install

Windows 2000 USB driver install

When USB2.0 control interface be connected to computer, screen will display



and the second	Hardware Wizard
A de	lardware Device Drivers vice driver is a software program that enables a hardware device to work with perating system.
This	wizard will complete the installation for this device:
R	USB2.0 Device
need	vice driver is a software program that makes a hardware device work. Windows s driver files for your new device. To locate driver files and complete the lation click Next.
Wha	t do you want the wizard to do?
Ģ	Search for a suitable driver for my device (recommended)
C	Display a list of the known drivers for this device so that I can choose a specific driver

Click Next to continue

nd New Hardware Wizard	26
Where do you want Windows to search	n for driver files?
Search for driver files for the following h	ardware device:
USB2.0 Device	
The wizard searches for suitable drivers any of the following optional search loca	in its driver database on your computer and in ations that you specify.
To start the search, click Next. If you ar insert the floppy disk or CD before clicki	re searching on a floppy disk or CD-ROM drive, ing Next.
Optional search locations:	
Floppy disk drives	
CD-ROM drives	
Specify a location	
Microsoft Windows Update	
	<back next=""> Cancel</back>



Edit or browse path to ...\USB20driver\win2000_XP\gene.inf (here F: is CD location, dso25216 may be dso29xx or la5000b or pg32200 or pg32400) Press OK





Click Yes to continue

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard Usb2.0 Controller 5 Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

Completing install

Windows XP USB driver install

When USB2.0 control interface be connected to computer, screen will display

Found New Hardware Wi	zard
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: USB2.0 Device
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.

Click Next to continue

ease cho	ose your search and installation options.
📀 Searc	h for the best driver in these locations.
	e check boxes below to limit or expand the default search, which includes local and removable media. The best driver found will be installed.
	Search removable media (floppy, CD-ROM)
	Include this location in the search:
	E:\dso25216\Usb20Driver\Win2000_XP Browse Browse
O Don't	search. I will choose the driver to install.
	e this option to select the device driver from a list. Windows does not guarantee ver you choose will be the best match for your hardware.

Edit or browse path to ...\USB20driver\win2000_XP\gene.inf (here E: is CD location, dso25216 may be dso29xx or la5000b or pg32200 or pg32400) Click Next to continue



Press Continue Anyway



Completing install

Windows Vista USB driver install

When USB2.0 control interface be connected to computer, screen will display as following:



Press Locate and install driver software (recommended) Continue Anyway

Allo	w Windows to search online for driver software for your USB2.0 Device?
*	Yes, always search online (recommended) Windows will automatically search for the latest drivers and applications for your hardware and download them to your computer.
+	Yes, search online this time only Windows will search for the latest drivers and applications for this device and download them to your computer.
+	Don't search online Your device may not function properly until you get the latest software.
Dieze	se read Microsoft's privacy statement

Press Continue Anyway

Inse	ert the disc that came with your U	JSB2.0 Device	
	u have the disc that came with your device, h the disc for driver software.	, insert it now. Windows will automatically	
+	I don't have the disc. Show me	other options.	

Press Insert the disc that came with your USB2.0 Device Click Next to continue

😵 Wi	ndows Security
\bigotimes	Windows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
	See details

Press Install this driver software anyway to Continue

Found New Hardware - USB2.0 Device	X
The software for this device has been successfully installed	
Windows has finished installing the driver software for this device:	
USB2.0 Device	
	Close

Completing install

Technical Support

Technical Support can be reached at



CLOCK COMPUTER CORP.

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Software Updates

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