

User Manual

EC-1530

All-in-one Touch POS Terminal

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Chapter I: Overview

Thank you for purchasing the EC Line All In One touch POS devices, we are committed to continuously improve the product quality and provide better after-sales service. In order to take full advantage of our devices, we strongly recommend that you take the time to read this manual before diving into software solution.

1.1 The Structure of the Manual

This manual is divided into parts and chapters in order to help you better focus on the key topics.

You are not required to have prior knowledge of any point of sale to use this manual. This Manual contains an overview of the installation guide, instructions for use, Common Faults and exclusion, the main technical indicators content and the product warranty commitments. You can access to appropriate help by browse the topics upon your need.

1.2. Safety Information :

- This product is in full compliance with the relevant requirements of the national standard GB/4943-2001 IT equipment security.
- Before plug in the product, please make sure the power you provide meets the power requirements (such as voltage, frequency); please make sure the ground terminal of the power outlet is working normally.
- Lightning may damage this product or even your personal safety, during lightning storms; unplug the network cable, power cable and any other connections.
- Turn off the power before connecting any devices (except USB device) to the terminal.

- Do not attempt to open the chassis .You may be hurt by electric shock. For service, call your place of purchase.
- Please do not leave any item or liquid into the product, do not place any objects into the ventilation holes of this product, it may cause short-circuit of the internal components and cause a fire or electric shock.
- In accordance with the relevant explanation in national standards GB/T9813-2000 microcomputers general specification. After the computer is below the temperature of 10 ° C of environment storage, please place the machine in room temperature (10-35 ° C) conditions for more than two hours to avoid damage from low temperature. In the meantime please do not remove the packaging and allow the computer to restore the natural temperature, and avoid heating up too fast to cause the computer to generate the occurrence of frost and condensation that might bring electrical damage.
- Strict compliance with the electrical appliance standard;
- Safe use voltage range: 100V ~ 240V & 50Hz/60Hz;
- Verify that the power outlet is available to connect to a reliable ground;
- Keep the device clean, dry, away from dust, moisture and direct sunlight;
- Do not share the same power outlet with high-power electrical appliances, keep distance from high level magnetic interference;
- Turn off the POS machine after use to extend using life;
- Do not the use sharp points, draw, cut the touch screen to ensure the normal use of it;
- Before plug / unplug the communication cable or connect to an external device, please turn off the power supply;
- Non-professional and technical personnel is not allowed to open the machine, otherwise take upon the consequences;

When the following occurs:

- Liquid penetrate into the body of POS machines
- POS machines accidental damage
- POS machines produces a burning smell
- POS machines shows sudden abnormal

Immediately disconnect the cash register power supply, unplug the power cord, and immediately contact a qualified service technician to deal with.

1.3 Electromagnetic compatibility statement:

- This product is in full compliance with the relevant requirements of the national standards (GB/9254-1998) "The limits and measurement methods of radio disturbance characteristics of information technology equipment" for Class B products.
- This product is in full compliance with the relevant requirements of the People's Republic of China's national standards of (GB/17625.1-2003)
 "Electromagnetic Compatibility Limits for harmonic current emission limits" for Class B products.

Chapter II: Installation Guide

2.1 EC-1530 Appearances: (MSR and VFD mounting optional)



2.2 The rear panel I/O signs and description:

AT the rear panel of the POS device you will see a row of the external device connection interface, such as: power outlet, the parallel connector, serial socket, USB interface, detailed as follows:



Power Button: Turn on / off the POS
Mouse: To connect mouse device
KB: To connect the keyboard device
LPT: 25DB parallel port, external printing, or other communications equipment
VGA: VGA signal output interface
COM 1.3.4.5.6: External serial devices, such as mouse, fax machines, printers,

equipment, etc. USB: USB interface to connect a USB device LAN: Connect RJ-45 connector to 100M/ bps LAN interface, enable the device be connected to the Internet Line out: Sound output to other audio equipment Mic In: Microphone voice input 12V DC in: Power supply for POS

12V DC out: 12V DC output to other device

EC-1530 series of products using the manual handle design which is able to be adjusted within the range of 0 degrees to 90 degrees, the operation is more humane.

Chapter III: Instructions for use

3.1 Motherboard BIOS settings:

The POS device has a BIOS (Basic Input Output System) chip on the motherboard. Every time you start the POS devices, the system will first run the BIOS self - test program, to check the main components of the system to ensure it is working properly.

The newly assembled POS devices must process the BIOS settings to inform the entire system configuration of the POS device, so your POS device had done the BIOS settings in the factory, please do not change the parameters in the BIOS to avoid system exception if there is no special need.

In the following situations, you need to run the BIOS setup program:

- 1, Error message appears on the screen during the system self-test, and requested to enter the BIOS setup program.
 - a. Press F1 to run setup
 - b. Press F2 to load default values and continue
- 2, When the self test does not appear the information above, if you want to change the factory default settings based on customer characteristics, boot by DEL to enter the BIOS interface. If the message disappears before you respond to, you can turn off the machine or press the Reset button on the front panel, and restart the computer, you can also press the <Ctrl> + <Alt> + to restart.

When The POS device is booting, the BIOS runs the self - test program, the self-test program is a series of diagnostic procedures fixed in the BIOS, when the self-test program execution is completed, showing the following information:

Press DEL to enter setup (press DEL> key to enter the BIOS setup).

If the message disappears before you respond to, you can turn off the machine or press the Reset button on the front panel, and restart the computer, you can also press the $\langle Ctrl \rangle + \langle Alt \rangle + \langle Del \rangle$ to restart.

Control keys

<↑> Move up <↓> Move down <←> Move left <→> Move right <Enter> To select this option <Esc> To exit the menu or to return to the main menu from the submenu <+/PU> Increase the value or change selection <-/PD> Reduce the value or change selection <F1> Help, only available in the status menu and select templates menu

<F7> To load the last set of values

<F8> To load the safest value

<F9> To load the optimal value

<F10> To store settings and exit the CMOS SETUP program

Step 1: Select Load Default Settings to restore optimized default settings CMOS Setup Litility- convright (c) 1985-2008

ChiOS Setup Othity- copyright (c) 1965-2006	
BIOS Setup Utility- copyright (c)1985-2008	
Main	
Advanced	
chipset	
Boot	
Security	
Save & Exit	
$\uparrow\downarrow\rightarrow\leftarrow$:Move +/-:Value Enter: Select F10:Save and Exit	
F1: General Help F9: Load Default Settings Esc: Exit	

Step 2: Select "main "

Standard CMOS Features

Bios information		Item Help
BIOS Vendor	American	
	megatrends	
Core Version	4.6.4.0	
Compliancy	UEFI Z.0	While entering setup
Project Version	PT00C000X64	BIOS auto detects the
Built Date and Time	11/24/2011/	Presence of SATA
	14:29:44	Device. This displays
	Not detected	The status of auto
		Detection of SATA
System time	11 : 33 : 23	devices
(hh:mm:ss)	Tue 01/01/2012	
System date	English	
(mm:dd:yy)		
Access Level	Administrator	
↑ ↓ → ←: Move +/-:Value	Enter : select F	10:Save and Exit

F9 : load Defaults Settings F1:General Help Esc : Exit

Step 3: Select the Advanced settings

WARNING: setting wrong values in the below sections may cause system to Malfunction

Advanced setup

CPU Configu	uration			
IDE Config	uration			Configure CPU
USB Config	guration			
COM/LPT	Configuration			
Hardware m	onitor			
Power mana	igement			
↑ ↓ → ←: Move	+/-:Value	Enter : select	F10:Save a	and Exit

F9 : load Defaults Settings	F1:General Help	Esc : Exit
i o i loud Boldano Gollingo		L00 . L/II

Step 4: Select Boot

Boot Configuration		
Boot up Num Lock State	On	
Display Logo	Disabled	
Boot Option Priorities		
BOOT OPTION	SATA: ST3800••••.	
Hard Drive BBS Priorities		
↑ ↓ → ←: Move +/-:Value	Enter : select F10:Save and Exit	
F9 : load Defaults Setting	gs F1:General Help Esc : Exit	

Step 5: Select the menu item Security

Supervision Password: Not installed	Help Item	
User Password :Not Installed		
Change Supervisor Password	Install	or
Change User Password	change	е
Clear User Password	password	
Boot Sector Virus Protection Disabled		
Flash Write Protection Enabled		

North Bridge Configurati	Help Item	
Memory Frequency	800MHZ	

Total Memory	2048MB	Configure North	
Share Memory Size	8MB	Bridge features	Step 6:
DVMT Mode Select	DVMT Mode		Select
DVMT/FIXED Memory	256MB		the
			menu
South Bridge Configuration	on		unit exit
HD Audio controller	Enabled		
USB Function	Enabled		
On board LAN2 Controlle	r Auto		
LAN Boot Rom	Disabled		

↑ ↓ → ←: Move +/-:Value Enter : select F10:Save and Exit F9 : load Defaults Settings F1:General Help Esc : Exit

Step7: Select the Save& exit

	Exit option	Item	Specific
		Help	
	Save Change and Exit		
	Discard Change and Exit	Exit sys	stem
	Discard Change	setup w	vith
	Load Optimal Default		
\rightarrow	-: Move +/-:Value Enter : select F10:Save and Exit	it	
	O Land Defaulte Cettinge Et. Constal Llala Ess	E	

F9 : load Defaults Settings F1:General Help Esc : Exit

1

3.2 Touch screen driver installation:

Step 1: Open the installer directory to find the setup.exe file, double-click the installation, when apply CD-ROM installation, the path is shown below



Step 2: Double-click the installation as the following figure shows, click Next to proceed to the next installation

🐸 eGalaxTouc	h			
Install	eGalaxTou	eGalaxTouch	Weicome to the InstallShield Wizard for EisalaxTouch The InstallShield Wizard will install eGalastTouch on your computer. To continue, click Next.	
			< Back Next > Cancel	
🐉 start	CalaxTouch_5.11.0	🦉 1 - Paint	😇 eGalaxTouch 🏾 🍕 🕹 🖓 🕲	😌 5:08 AM

Step 3: Install In progress

🛎 eGalaxTouch			
Install eGalaxTouc	h		
	eGalaxTouch	X	
	Setup Status	AN A	
	eGalaxTouch is configuring your new software installation.		
	(***********************************		
	natalGheld	Cancel	

Step 4: Tick "install PS / 2 interface driver" and click Next to proceed installation

🐸 eGalaxTouch		🔳 🗖 🗶
Install eGalaxTouch		
eGalax	alouch	
Setu Sele	p Type set the setup type that best suits your needs.	
Extr. Pice	a PS/2 interface driver for eGalacTouch controller. see check the check box for PS/2 touch controller. install PS/2 interface driver	
InstallSha	eld Cancel	
🛃 start 📄 😂 eGalaxTouch_5.11.0 🍞 2 -	- Paint Calax 3 da15	表現の4(回り 5:09 AM

Step 5: If the touch interface is RS232, tick "install RS232 interface driver" and click Next to proceed installation

🐸 eGalaxTouc	:h					
Install	l eGalaxToud	ch			2	
		eGalaxTouch		X	Ì	
		Setup Type Select the setup type that be	st suits your needs.			
		Extra RS232 interface driver Please check the check box	for eGalaxTouch controller. for RS232 touch controller.			
		v instal H3232 interface of	ver			
		InstallShield	< Back	Next> Cancel		
🛃 start	eGalaxTouch_5.11.0	🍟 3 - Paint	SeGalaxTouch			💑 🕺 🌒 🛄 🔮 5:09 AM

Step 6: When choosing the calibrations, select NONE, click Next to proceed installation

≝eGalaxTouch		
Install eGalaxTouc	ch	
	eGalaxTouch	
	Setun Tune	
	Select the setup type that best suits your needs.	
	Do 4 point calibrations after system reboot	
	O Every system boot up	
	O Next system boot up	
	⊙ None	
	InstallShield	
	<back next=""> Cancel</back>	

Step 7: When installing USB touch, please connect the USB controller and USB cable

🐸 eGalaxToud	:h:					
Instal	l eGalaxTou	ch				
		eGalaxTouch		×	Ì	
		Setup Type	8 B D			
		Select the setup type that be	ist suits your needs.			
		Do 4 point calibration after s	vstem reboot			
	eGalaxTo	ouch - InstallShield Wizard				
	ų,	If you are trying to install the US cable is plugged into the compute Please close the "Found New Har	B touch device, please make sure th sr now. chaste Wizerd" dialog when it appea	at your touch monitor or touch cor	itroller's USB	
			Ск			
		InstallShield				
			< Back	Next > Cancel		
					J	
te start	eGalacTouch 5.11.0	¥ 5 - Paint	S eGalaxTouch			LOLO IN SIDAM
- Count						~~~~~~

Step 8: When there are two or more touch screen, please tick "Support multi-monitor system"



Step 9: Select the destination location to store the driver, the default path is C: Program Files \ eGalaxtouch; we use the default path here, click Next to proceed to installation

🛎 eGalaxTouch		
Install eGalaxTou	ch	
	of elev Touch	
	esalaxioucii	
	Choose Destination Location	
	Solida, fotbol verices solap vin install nes.	
	Setup will install eGalaxTouch in the following folder.	
	To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
	Destination Folder	
	C. Vriogram nies ved alaxi ouch	
	InstallShield	
	< <u>₿</u> ack <u>N</u> ext> Cance	

Click Next to proceed to installation

🔄 eGalaxToud						
Instal	eGalaxTou	ch				
Instate	COMMANI ON					
		eGalaxTouch				
		Select Program Folder				
		Please select a program fok	der.			
		Setup will add program icon	s to the Program Folder listed bel	ow. You may type a new folder	_	
		name, or select one from the Program Folder	e existing folders list. Click Next t	o continue.		
		eGalaxTouch				
		Existing Folders:				
		Accessories Administrative Tools				
		Futuremark Games				
		Startup				
		InstallShield			_	
			< Back	Next > Cancel		
🛃 start	GalaxTouch_5.11.0	👹 9 - Paint	🙁 eGalar. 10, /, 15			歳 義 の 🕼 🗋 🔅 5:11 AM

Step 10: Check the projects to create a desktop shortcut icon in the following figure



After install the driver successfully, identify the USB controller card and RS232 control card as the following two figures shows

1	Edge Compensati General	on Setting	Hardware Tools	About Display	
	USB Controller	een Controllers			
	Monitor Mapping		Add	Remove	

Related touch function setting

100	Edge Compensation	Hardware	About	1
	General Setting	Tools	Display	ļ.
	Beep On Touch Beep On Touch Beep On Release Beep From System Beep Beep From Sound Card	Frequency Duration	∜⊧	
	Linearization Style			-
	Double Click Time		>>Longer	
	Double Click Area	[>>Bigger	
	Click On Touch		Option	

Touch calibration

Edge Compe	nsation		Hardware	١,	About
General		Setting	Took	8	Display
Linearization Cur	rve				
4 Points Calibr	ration	Do 4 poin	ts alignment t	o match dis	play.
Clear and Cali	brate	Clear linea alignment	arization parar	meter and d	lo 4 points
Linearizatio	on	Do 9 poin línearity.	ts linearizatior	n for better I	touchscreen
Draw Tes	ł	Do draw	lest to verify t	he touch a	couracy.
		0	K []	Cancel	Annly

Touch device line test



Touch screen setting

-		About
General	Setting To	ols Dispia
Display		
1		2
Double click on the i	monitor area to map the to	ouchscreen to the disp
Enable Multiple M	fonitors.	
Map to main disp	ilay if system has only one	e display monitor.
Operation Mode		-
Full Screen	C Lower Screen	C Left Screen
C. Unper Screen	C Bight Screen	Othe

Touch device edge correction setting

General	Setting	Tools	Display
E age Compe	msation	Hardware	About
Edge Paramete	Top	100 %	
5maller<<	Left	100 %	- >>bigger
Smaller<<	Bottom	100 %	->>Bigger
Smaller<<		100 %	- >>Bigger
Smaller<<	Right	100 %	- >>Bigger
Smaller<<	Offset X Axis	0 Pix	el - >>Bigger
Smaller<<	Offset Y Axis	0 Pix	el ->>Bigger
Support Edg	ge Compensation		
· 10 %	D	efault	+ 10 %
		r	

Touch device hardware information display

\mathbf{O}	ETR4000/4200 Hardw	are Setting - Normal
eGalax Touch	Improper settir	ng may cause
Constant Touch		
Enable Cons	ant Touch	
	X: 8	
Smaller<<	-1	>>Bigger
C	Y: 8	
Smaller<<		>>Bigger
Sensitivity	260	
Slower<<	_]	- >>Higher
	Reset to Default Setting	[

Chapter IV: Common Faults and exclusion

1. POS device does not boot

If the POS devices cannot boot after repeated pressing of the power switch (POWER) when connect to the power, the POS device power light remains off, the fan does not operate, and the BIOS beeping is not heard. Generally if any statue above appears, it might be POS devices Power supply problems;

- (1) Check the power adapter is plugged, power light indicates the power connection, if the light is off, the adapter might be damaged or in protection. Check the power outlet and make sure it is 220v power supply, if the adapter is in power protection mode, please re-plug the adapter.
- (2) Check the connection between the POS device and the power adapter, and then re-boot the machine;
- (3) The using environment of the POS device (such as: high temperature) causes the POS device automatically shut down in protection mode, please disconnect the power of the machine to improve the internal environment;
- 4) If the POS device does not boot after a sudden power failure or illegal shutdown, unplug the adapter from the POS device, and press the power button (POWER) for several times, then plug the adapter and boot again.
- (5) If the adapter light blinks or go off, unplug the adapter immediately and do not plugged in again, then contact with our products service center.

2. No display after start up

When the POS normal boots, you will hear the BIOS beeping and the sound of the entering theme, if the display remain in blank screen, the LCD switch might not be off, switch the LCD on.

3. The POS device automatically restart (or shutdown)

If POS device is frequently automatic shutdown or auto-boot in operating (or just start

up),

(1) Check the power supply is connected normally; make sure the plug is not loose and contacts are in good condition;

- (2) Check the AC 220V is stable;
- (3) Virus may cause this problem if the hardware parts are normal, immediately antivirus to restore the system.
- (4) A sudden power failure or illegal shutdown may cause this problem, press F8 to use safe mode to enter the system and debug.
- (5) If you added or replace any hardware or an external device to occur this problem, recover the hardware or remove it.
- (6) If the above steps do not resolve this problem, reinstall the operating system.

4. POS device is not available to access internet (slow response)

- (1) Make sure the external network cable is well connected;
- (2) Check if the green light is on and the orange light blinks at the internet port while the POS device is working. If not, there might be the external cable problems, please re-check the external network cable is connected;
- (3) Check the network connection icon in the Toolbar, if the icon cannot be found, so network card driver might not be installed properly, reinstall the driver (according to the driver installation instructions ");
- (4) Check the IP address is set correctly (according to the "Driver Installation Instructions"), If you do not know how to. Please apply "Obtain an IP address automatically".
- (5) Not available to access internet or the network speed is very slow, it may be too many pages opened or affected by viruses, so please clean the virus immediately.

5. Mouse or keyboard is not working.

Restart the POS device after connecting mouse and keyboard, or may cause

abnormal use or crash phenomenon to the mouse and keyboard.

- (1) Check the mouse and keyboard are normal; replace the damaged ones;
- (2) Check the drivers of mouse and keyboard are correctly installed, if not, reinstall the driver. See "the motherboard driver installation".

6. The touch screen does not respond

When the touch POS device does not has any reaction;

1. Remove the touch driver and then install it again Remove the touch driver and then install it again.

- 2. Execute the "eGalaxTouch on the desktop, check if the COM Port is normally.
- 3. Disconnect the touch cable from COM port, and plug in other RS-232C devices to confirm if the COM port is working correctly.
- 4. Check the touch flat 5P cable, which is connected the touch panel and touch control board.
- 5. The touch panel and touch control board themselves may be defective. In this case, need to replace these defective components.

7. When touch the screen of POS device, the cursor pulse in a fixed position.

- (1) Check the cursor if there is anything suppressing on the touch screen;
- (2) The power supply or other high frequency equipment affect the screen or controller, make sure that the touch screen is away from the high-voltage equipment;
- (3) The touch screen driver is not installed correctly, install the driver (please refer to the "Touch Screen Setup") and run a 25-point calibration.

8. Touch screen is not accurate

Please run the touch screen calibration program with a 25-point recalibration, we also recommend you to do this after change the monitor resolution or refresh rate. When running the calibration, press the center of calibration point to avoid in accuracy.

9. The cursor moves opposite to the touch movement

- (1) Please run the 4/9/25 point calibration;
- (2) The touch screen driver is not installed properly, reinstall the driver.

10. The cursor fixed at the edge of LCD, or pulse in a fixed position

- (1) The touch region of the screen has been suppressed by something.
- (2) Check the edges of the LCD if there is anything inserted in or the front frame is being squeezed;
- (3) Make sure the touch screen is clean without anything pasted on.
- (4) If the above steps do not solve the problem, please contact the products and services center in our company.

11. The cursor in the touch screen can only move in a small area or resistive touch screens are inaccurate.

- This situation usually occurs in the first time installing the driver, please run the touch screen calibration program. We also recommend you to do this after change the monitor resolution (Start - Programs);
- (2) Run the touch screen calibration program to do a 25-point recalibration.

12. POS display is not clear or water ripples appears

- (1) Re-set in the display properties
- (2) The screen display resolution is set in the best condition (1024 * 768);
- (3) Power supply or other high frequency devices affect the screen or machine; keep the distance between the POS device and the high frequency devices.

13. Cannot connect to the printer

- (1) Make sure the printer is normal;
- (2) Check the printer and POS devices are connected;
- (3) Check the driver of printer is installed;
- (4) Try to find the printer hardware in the POS device properties, if found, please re-install the correct printer driver;

- (5) In the POS device properties if the printer hardware is not found, please re-check printers and POS device is connected and the printer is available.
- (6) If the above steps do not resolve this problem can only reinstall the operating system.

14. USB external device can not be used

- (1) Check the external USB device is normal;
- (2) Check the BIOS USB2.0J is enabled;
- (3) The cable of USB external device should not be too long. Otherwise, the USB device can not be found due to the insufficient supply;
- (4) Re-install the USB driver (see "motherboard driver installation").

Manufacturer: EC LINE

Thank you very much for using EC Line product

For service, please contact service@ecline.com.hk

www.eclinepos.com