PROTECH SYSTEMS
It's the right choice

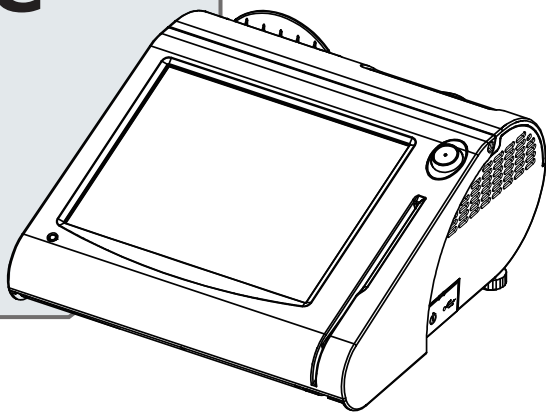# PA-3170

Quick Reference Guide

Ver. Q3

Packing Checklist

If you discover any item below damaged or lost, please contact your vendor.

- ☑ PA-3170   x1
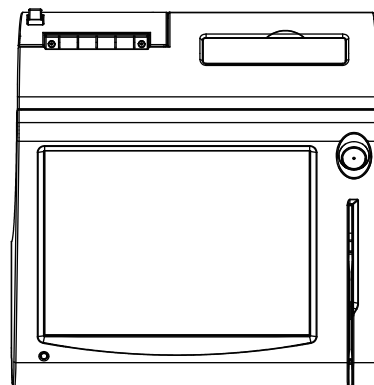- ☑ This Quick Reference Guide   x1
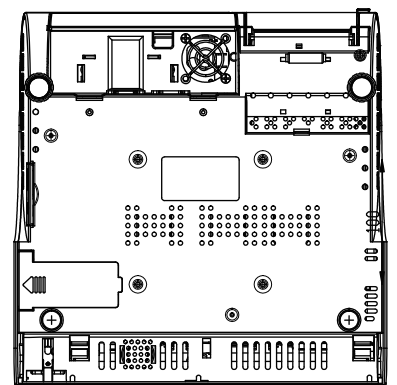- ☑ AC Power Adaptor   x1
- ☑ Manual/Driver CD   x1

Specifications

System	
CPU Support	Intel® 2nd Core™ i3-2120 3.3 GHz, L2 Cache-3MB
	Intel® Pentium® G850 2.9GHz, L2 Cache-3MB
	Intel® Celeron® G530 2.4GHz, L2 Cache-2MB
Chipset	Intel® H61
Memory	1 x DDR3 SO-DIMM slot (up to 8GB)
O.S. Support	Windows POSReady7/2009, WES7/2009
Network	10/100/1000 Base-T Fast Ethernet
Power Adapter	120~150 Watt DC-in
System Weight	4.5 kg
Dimension (WxHxD)	300 x 299 x 135 mm
Certificate	FCC/CE
Storage	
HDD	1 x 2.5" SATA HDD
SD/MMC	1 x SATA half-slim SSD
I/O Ports	
USB	5 x USB 2.0 (one on the side bezel)
Serial Port	2 x DB-9 (COM2/3), 1 x RJ45 (COM1), 5V/12V selectable
PS/2	1 x PS/2 port (default at keyboard)
LAN	1 x RJ45
VGA	2 x DB-15 VGA interface
Cash Drawer	1 x RJ11 (12V/24V selectable, default at 12V)
Printer	2" or 3" easy loading thermal printer with auto cutter
Option	1 x DB-25 printer port
Display	
LCD & Tilt Angle	10.4" TFT, 24~30°
Max. Resolution	1024 x 768; 800 x 600
Brightness	300 cd/m²; 230 cd/m²
Touch Screen	5-wire Analog resistive
Environment	
Operating Temp.	Operating: 0~35°C; Storage: -20~60°C
Humidity	20 ~ 90%

System View

Top View

Bottom View

Front View

Quarter View

Side View

I/O View

DWR2, I/O, COM 3, LAN, COM 2, COM1, USB, VGA, DWR1, DC IN

Option 1 (LPT, D-sub 25-pin)

Option 2 — COM4, COM3 (2 x RS232, D-sub 9-pin)
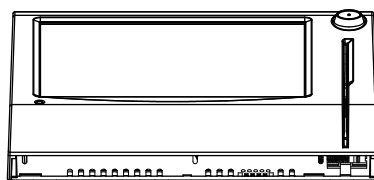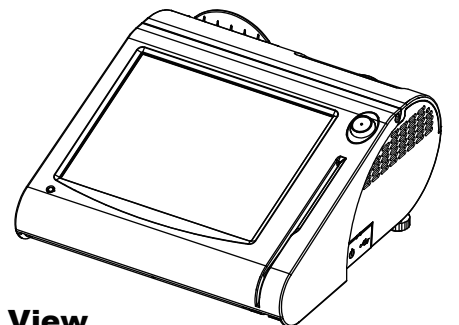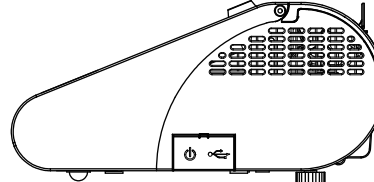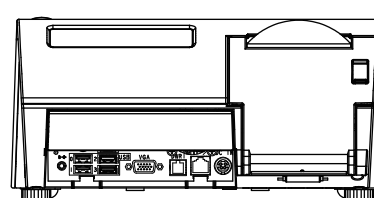
Rear View
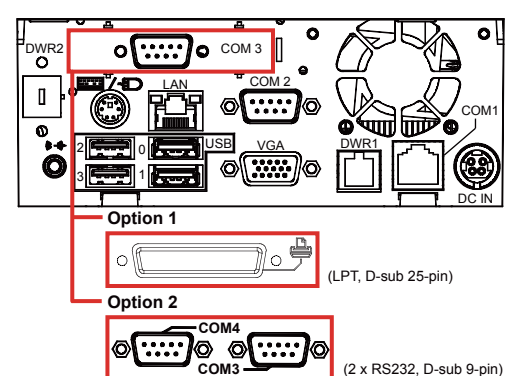
PA-3170
The Highly Integrated Fanless 10.4" POS Terminal

Easy Maintenance

Step 1
Step 2
Step 3
Step 4
Do not cover the HDD breather hole.

Jumper Setting

COM Port RI & Voltage Selection

RI (default) 12V 5V

LVDS Voltage Selection

3.3V (default) 5V

(Motherboard diagram with component labels: PWR_IN1, COM1, DRW1, JVGACOM2, JRJ45USB23, JPS2USB01, LINE-OUT1, PWR_IN2, SW2-2, SPK2, JLED1-2, USB9, PRT_PWR1, J1, COM4-1, FAN1, JP_COM1, JP_COM3, JP13, JP_COM2, PS2_2, JINV3, JP_COM4, COM3-1, SATA2, JP2, JP4, JPWR_4P2, JP26, J_LPC1, LPT1, SIO, USB8, USB10-2, USB10-1, Intel H61, JPWR_4P1, J3GPWR, SW1, Battery, DIMM1, DIMM2, Intel 2nd Gen. Core CPU Socket, SATA1, JINVDRV1, JINV2, JP7, SP1, FAN2, JP27, JP6, USB5, JINV1, JLED2, LVDS1, COM4-2, JI_BUTTON1, JLED1-1, TOUCH1, SW2-1, SPK1, TOUCH2, PS2_1)

Clear CMOS Data Selection

Normal (default) Clear CMOS Data

Cash Drawer Power Selection

+24V (default) +12V

i-Button Function Selection

COM3 (default) i-Button

Safety Precaution

The following messages are reminders for safety on how to protect your systems from damages and to extend a long life of the system.

1. Check the Cable Voltage
• Make sure the range of operating voltage between AC 100V ~ 240V. Otherwise, the system could be damaged.

2. Environmental Conditions
• Place your PA-3170 on a sturdy, level surface. Be sure to allow enough space to have easy access around the system.
• Avoid extremely hot or cold place to install the system.
• Avoid exposure to sunlight for a long period of time or in an airtight space.
• Avoid the system from any heating device or using it outdoors in a cold winter day.
• Bear in mind that the operating ambient temperature is from 0 ~ 35°C (32 ~ 95°F).
• Avoid moving the system rapidly from a hot place to a cold place and vice versa because condensation may come from inside of the system.
• Place PA-3170 in strong vibration(s) may cause hard disk failure.
• Don't place the system close to any radio active device in case of signal interference.

3. Handling
• If the system isn't fully in DOS mode, adjust BIOS setting as the instruction: Advanced Chipset Feature => Boot display => choose "LFP".
• Avoid putting heavy objects on top of the system.
• Don't turn the system upside down. This may cause the hard drive to malfunction.

• Don't allow foreign objects to fall into this product.
• If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
• When the outside of the case is stained, remove the stain with a neutral washing agent with a dry cloth.
• Never use strong agents such as benzene and thinner to clean the system.
If heavy stains are present, moisten a cloth with diluted neutral washing agent or with alcohol and then wipe thoroughly with a dry cloth.
• If dust has been accumulated on the outside, remove it by using a special made vacuum cleaner for computers.
• Don't contact the surface of capacitive touch before entering your operation system, or capacitive touch may have position problems for electrostatics interface.
• Don't exchange the M/B battery by yourself or serious damage may incur.

CAUTION! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

WARNING! Some internal parts of the system may have high electrical voltage. And therefore we strongly recommend that qualified engineers can open and disassemble the system. The LCD and Touchscreen are easily breakable, please handle them with extra care.