

PT-20 Operation Reference Guide

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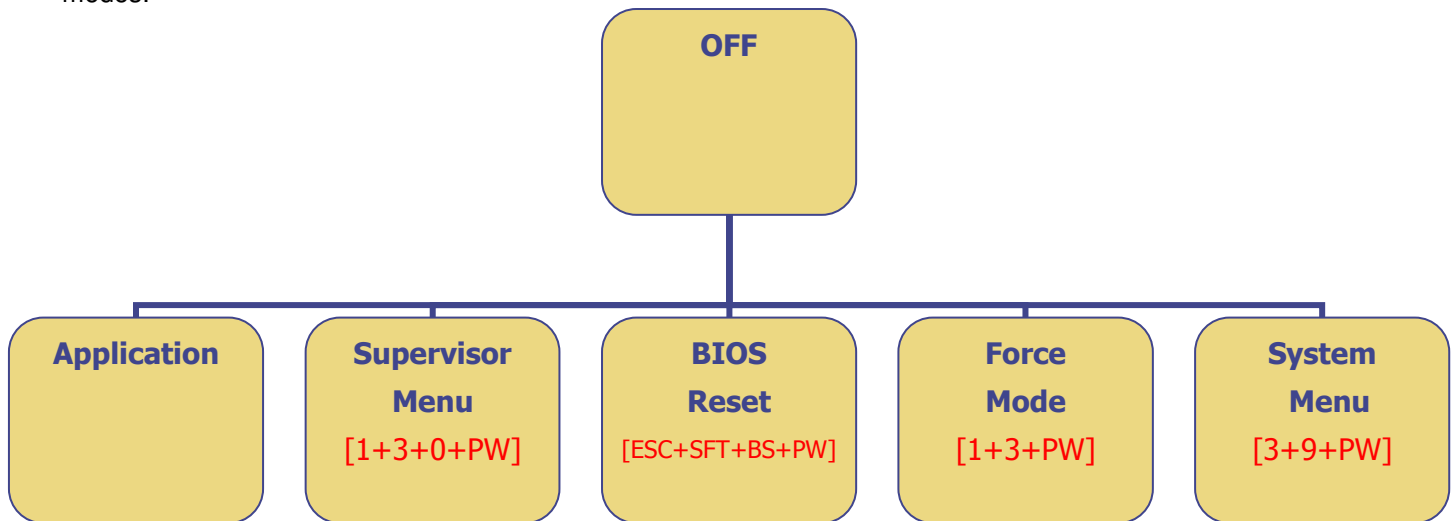
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1. Operating modes

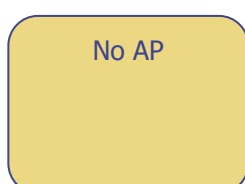
PT-20 is set up such a way that there are several operating modes. The system of terminal may operate in various modes for different purposes. The following diagram summarized the way to switch between different modes.



Mode	Description
Application:	User can execute the designed program which creates by SDK.
System Menu	User can change PT-20 setting or checking basic information (such as current firmware or Application version0, also can update Application.
Supervisor Menu	Provide SI (system integrator) do advanced setting on PT-20
BIOS Reset	Set all settings to default values, but Application still exists.
Force Mode	Boot or Kernel update

System configurations are categorized in two groups, users can to set general system configuration or enter Supervisor Menu to set advanced system configurations. The Supervisor Menu is also protected with password checking to prevent unauthorized personnel from changing the system configuration. It is likely that your unit came pre-configure by your software vender or system developer. In the case, please be caution when changing the setting.

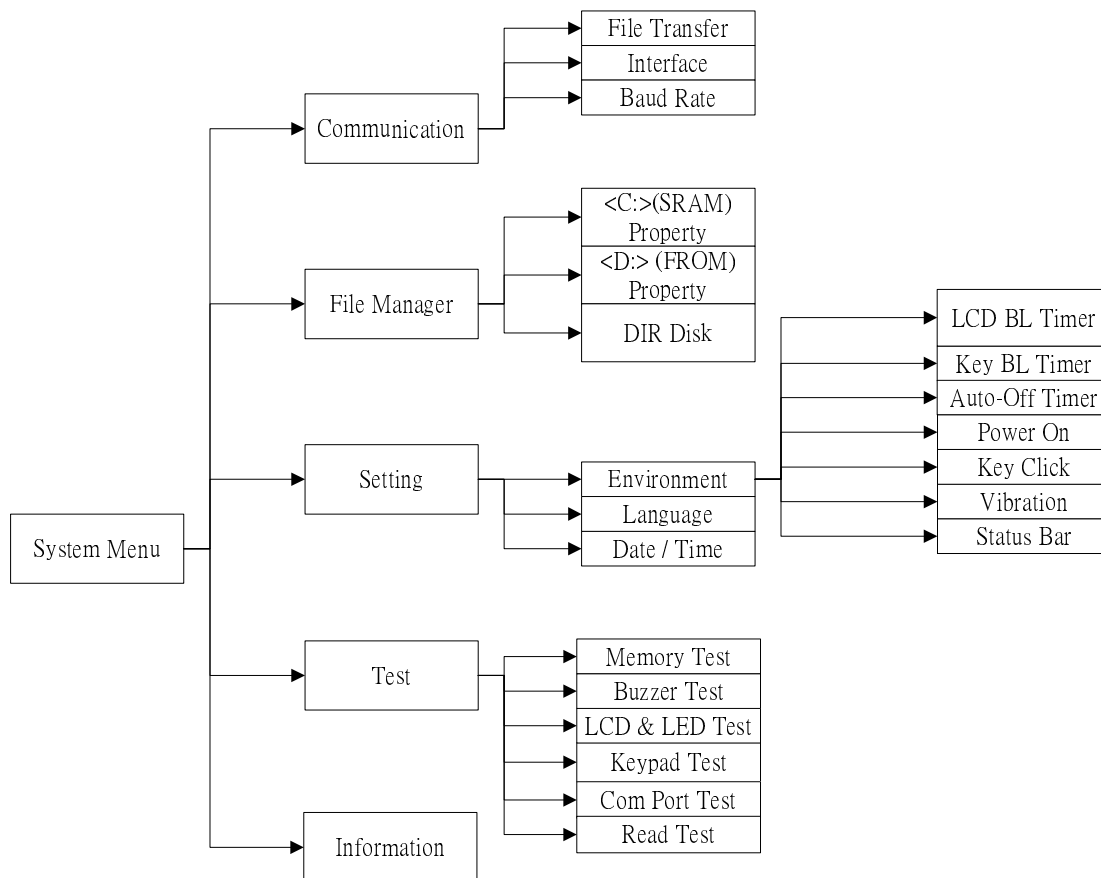
The terminal performs Warm-Start when it is switched on. After the Warm Start, the system enters Start mode and shows the Start mode prompt.



[Note: Can't find AP..., Please install AP or using combine key to entry different menu]

1.1 System Menu

You can use the PW  key to turn off the collector by continuously pressing on it for 0.5 second. After power off, then press [3+9+PW] keys continually in Power OFF mode to enter System Menu.



1) Communication

File Transfer	Only go to this mode to download and upload files from PT-20 to PC through PT FileManager . (except Bluetooth transmission)
Interface	You can upload or download files through either RS-232 or USB on cradle.
Baud Rate	The PT-20 internal baud rate setting. The default value is 115200 bps. (Only for RS-232).

2) File Manager

<C:>Property	User can browse the C disk properties (memory total capacity, used space and free space).
<D:>Property	User can browse the D disk properties (memory total capacity, used space and free space).
DIR Disk	User can browse the files in both RAM disk and ROM disk.

3) Setting

Environment	
LCD BL Timer	Set up LCD backlight timer (00-65535) 00: back light always on 10: back light turn off after 10 seconds
Keypad B.L Timer	Set up Keypad backlight timer (00-65535) 00: back light always on 10: back light turn off after 10 seconds F4 (BL): Turn the key lights ON and OFF
Auto Off Timer	Set up auto-off timer (00-65535) 00: cancel function
Power On	Set up to resume the status before power off or restart the system when re-turn on the PT-20
Key Click	Key sound witch
Vibration	Set up vibration timer(0~25.5), unit: 0.1 sec
Status Bar	Disable or enable the status bar
Language	Change Language
Date/Time	Set up the time and date of Real Time Clock in PT-20.

4) Test

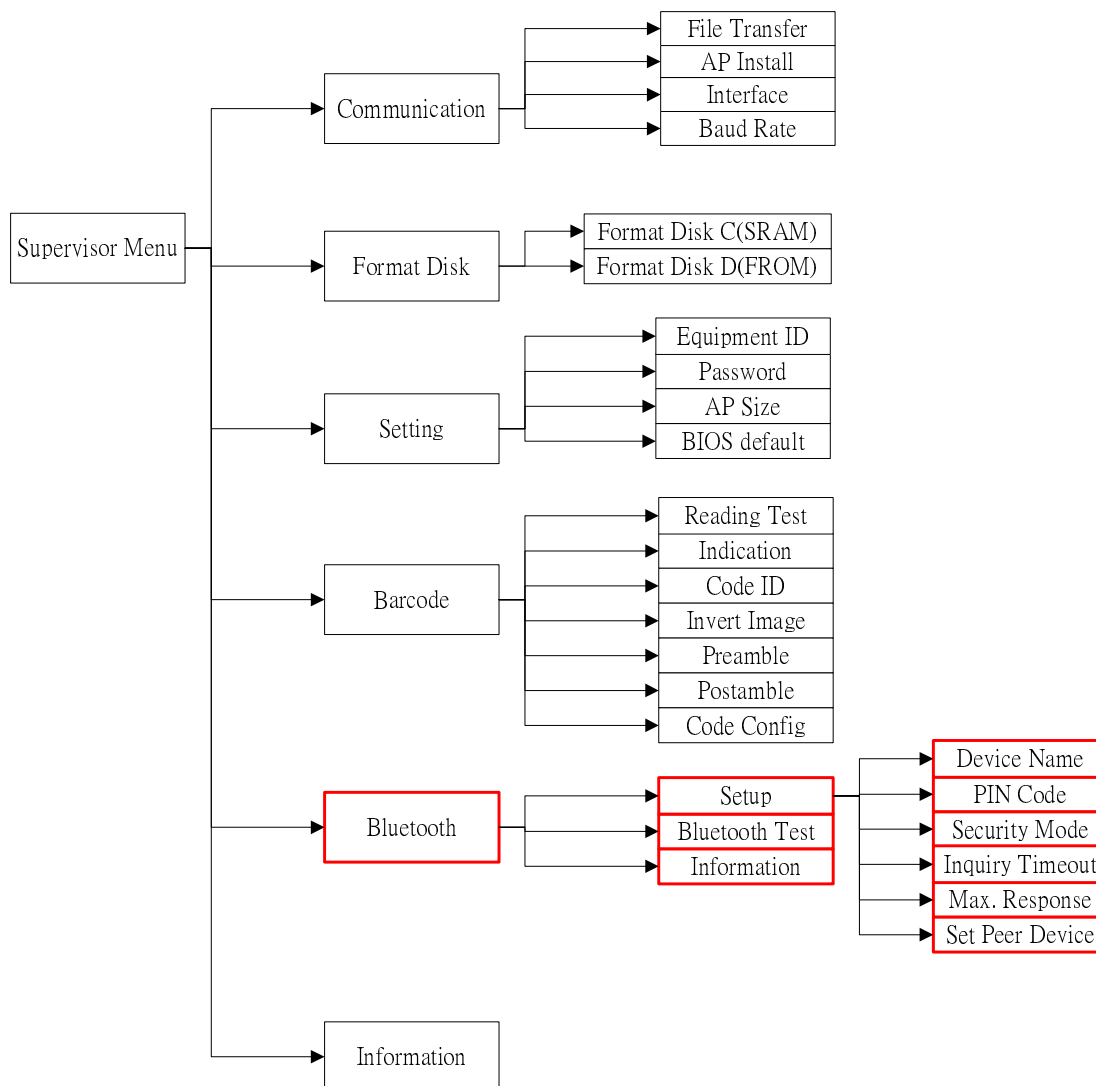
Memory Test	Memory test
Buzzer Test	Buzzer test from high tone to low tone
LED & LCD Test	LED & LCD Display test
Keypad Test	Keypad test
Com Port Test	Test RS-232 port connection
Read Test	Scanning test

5) Information

Show the model name and relative information of the collector, such firmware version and serial number.

1.2 Supervisor Menu

Power off first, then user press [1+3+0+PW] keys continually in Power OFF mode to enter System Menu.



1) Communication

File Transfer	Only go to this mode to download and upload files from PT-20 to PC through PT FileManager . (except Bluetooth transmission)
Interface	You can upload or download files through either RS-232 or USB on cradle.
Baud Rate	The PT-20 internal baud rate setting. The default value is 115200 bps. (Only for RS-232).

2) Format Disk

Format Disk C	Format Disk C
Format Disk D	Format Disk D

3) Setting

Equipment ID	PT-20 identification
Password	Change password for entering "Supervisor Menu". The default value is "00000" (only 5 characters)
AP Block Size	Adjust AP Block memory size ° (base on ROM memory size, minimum 512KB)

4) Barcode

Reading Test	Scan barcode test
Indication	Reading indication · LED or Beep reading indication
Code ID	Barcode ID setting
Invert Image	Invert Image setting
Preamble	Preamble setting
Postamble	Postamble setting
Code Config	Barcode setting

5) Bluetooth

Bluetooth menu is only for PT-20B model.

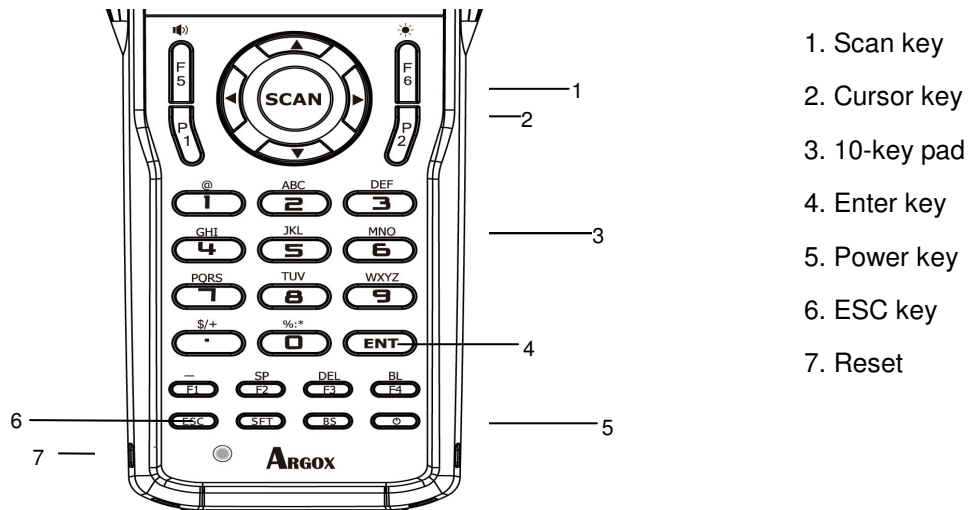
6) Information

Show the model name and relative information of the collector, such as firmware version and serial number.

1.3 BIOS setting default

Item	Default
Transmission interface	COM
Transmission Baud Rate	115200bps
LCD back light level	3
Keypad back light time	20 Sec.
Keypad sound	Open
Buzzer Volume	Medium
Vibration time	0.1 Sec.
Power ON	Resume
Auto-OFF time	180 Sec.
Status bar	ON
Equipment ID	0000
Distributor ID	N/A
Application memory size	512KB
RAM memory size	1048576 Bytes
ROM memory size	7131136Bytes
Supervisor menu Password	00000

2. Keypad Description



SFT key

Switches between the character input mode and the number input mode.

[abc][ABC] lit on the LCD screen indicates the character input mode. When [123] is lit, the terminal is in the number input mode.

Function key

- F1 (-): Inputs the minus (-) sign
- F2 (SP): Inputs a space
- F3 (DEL): Deletes a character
- F4 (BL): Turns the key lights ON and OFF
- F5 (): Increases buzzer volume
- F6 (): Increases LCD backlight
- P1: Decreases Buzzer volume and program 1 (for user SDK define)
- P2: Decrease LCD backlight and program 2 (for user SDK define)

3. PT FileManager

The PT FileManager is the tool to download and upload files from PT-20 to PC. Beside this, PT FileManager also can do

1. File management

To past and copy files (including PT-20 data, disk and files)

2. Monitor PT-20 data collector

Monitor PT-20 and transmit file automatically.

3. PT-20 Setting

Setting Terminal time

4. SDK Application Download

5. PT-20 Firmware upgrades

Example

