



User's Manual

PT-80



Version 1.0

01/2019

All rights reserved.

Copyright © 2019

No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form, by any means (electronic, photocopying, recording, or otherwise) without the prior written permission of the publisher.

Copyright protection claimed includes all forms and matters of copyrightable material and information allowed by statutory or judicial law or hereafter granted, including without limitation, material generated from the software programs which are displayed on the screen such as screen displays, menus, etc.

Products that are referred to in this document may be either trademarks and/or registered trademarks of the respective owners. The publisher and the author make no claim to these trademarks.

While every precaution has been taken in the preparation of this document, the publisher and the author assume no responsibility for errors or omissions, or for damages resulting from the use of information contained in this document or from the use of programs and source code that may accompany it. In no event shall the publisher and the author be liable for any loss of profit or any other commercial damage caused or alleged to have been caused directly or indirectly by this document.

Content subject to change without notice.

Table of Contents

Contents

Table of Contents	3
1. Introduction	4
Explanation of Advisements	4
Symbols and Markings	4
2. Device Layout	5
Front and side views	5
Rear View	6
3. Managing Device Power	6
Docking station	6
Power Supply and Batteries	7
Checking the charging Level	8
Power LED Behavior on the Docking station	8
4. Using the PT-80	8
Starting the Device	8
Shutting Down the PT-80	8
Power Saving	8
Using the Cameras	8
Adjusting the Volume	9
5. Product Care	9
Temperature & Humidity	9
General Use - Operating temperature	9
Transportation and Storage	9
Transporting the PT-80 Device	9
6. Safety	9
7. Trouble shooting	11
Appendix A Technical Specifications	12
Appendix B Compliance Information	12
B1 FCC Statement	12
Part 15B Equipment	13
FCC RF Radiation Exposure Statement:	13
B2 Radio Wave Exposure and Specific Absorption Rate (SAR) Information	13

1. Introduction




Welcome to your PT-80 Tablet PC.

To ensure the optimal performance of this product, please take the time to read this manual carefully.

The PT-80 is a rugged tablet designed for use in correctional facilities.









Explanation of Advisements

In this manual we use three (3) levels of Advisements as follows:

-  The Note symbol is used for notifying the user of something important or of something that needs special attention.
-  The Caution symbol is used to inform of something that could cause harm to, or malfunction of, the equipment.
-  The Warning symbol is used to inform of something in which there is a conceivable risk of harm to the user if the Warning is ignored.

Symbols and Markings

This section provides information about the symbols that are used on the PT-80, its accessories, or packaging.

Symbol or Markings	Description
	Power On/Off Indicator
	Dispose of in accordance with your country's requirements.
	CE is the abbreviation of the European Communities and this mark tells customs officials in the European Union that the product complies with one or more of the EC Directives.
	This is a certification mark employed on electronic products manufactured or sold in the United States which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission.
	Consult User's Manual
	UL Marking
	The product meets UL's requirements for Canada and the United States.
	Conforms to relevant Australian EMC requirements

2. Device Layout

Front and side views



Component	Description
MIC	Audio Recording Device
Front Camera	Record Still and Video Images
Charge LED Indicator	White Blinking Light – Battery Charging Solid Green – Charge Complete Red Blinking Light – Low Battery (Battery Below 10%)
MIC	Audio Recording Device
Speaker	Sends Out Audio
Lock	For locking tablet in associated wall charger. When it is under Lock mode, the tablet cannot be taken out from the wall charger.
Docking Connector	Connects the tablet with the Tablet Docking Station
Headset	Connect headphone
Telephone Receiver	Handset function for voice calls
Volume + Button	Increases the audio volume
Volume - Button	Decreases the audio volume
Power Button	Turn power On/Off (Hold 10s to Reset)

Rear View



Component	Description
SN Label	Position to place SN Label
Rear Camera	Record Still and Video Images

3. Managing Device Power

Docking station

You can charge the PT-80 tablet using a Docking station. The docking station has a DC input and a USB Port, the docking connector is shown in the layout Front view in chapter 2.



Use only the docking station included with your Tablet PC. Using other docking stations may damage the device.

Power Supply and Batteries

The PT-80 device has one rechargeable battery. Android OS will give battery warnings at certain battery levels. If the PT-80 device is not charged or powered by the power supply, the PT-80 device will shut down automatically. For more information, more details about the specification, please see Appendix A- Technical Specifications

To charge the Battery Pack:

1. Connect the tablet to the docking station using docking connector.
2. Connect the docking station to an electrical outlet and charge the tablet until the battery is fully charged.
3. After your device is fully charged, disconnect the charger from both the device and the electrical outlet.



NOTE: To prevent damage to batteries, please see Section 8: Safety



You cannot overcharge the battery. It is fine to charge the battery overnight.



Battery life naturally degrades over time. Failure to follow instructions for recommended operating temperatures, charge and discharge rates, and other instructions may accelerate battery decay rates. If your tablet battery will not accept or hold a satisfactory charge, it may need to be replaced.



For battery storage and charging temperatures, see Section 8: Safety

Checking the charging Level

To check the battery charge level of the PT-80, the battery monitor is shown on the Android Top navigation bar.

Power LED Behavior on the Docking station



The Power LED will only shine when the Power adapter is plugged in.

- Green — Fully charged
- Blue — Charging

4. Using the PT-80

No special skills are required to setup the PT-80 device. Follow this User's Manual and the Quick Start Manual.

Starting the Device

Start the device by pressing the power button on the top of the device.

Shutting Down the PT-80

The device should be shut down in the following way:

Use the menu in Android OS. Hold the power button for 3 seconds then select Power Off/Shutdown. (recommended when possible).

Should you be unable to shut the device down using the above, you can hold the power button on the top side of the device down for more than 10 seconds. The device will consequently shut down immediately, without waiting for open applications to close.

Reset can be performed by holding the power button on the top side of the device for five (5) seconds.



Using the physical power button to turn off the device is not considered a "clean" shut down, and is thus not recommended unless completely necessary because it can harm your device.

Power Saving

The Power saving settings in the PT-80 tablet are preset to optimize the battery run-time.

Using the Cameras

The two built-in cameras allow you to take snapshots or video of items facing the backside of the PT-80 device and from the display side.

Adjusting the Volume

To adjust the volume, use the Volume Up and Down buttons on the upper side of the PT-80 device. For position references, see the layout in Chapter two.



Volume adjustments can also be adjusted in AndroidOS.

5. Product Care

Temperature & Humidity

General Use - Operating temperature

The PT-80 is best kept in dry conditions at room temperature. The recommended range for temperature and the humidity value for the device is as follows:

- Ambient temperature: 0°C to 35°C (32°F to 95°F)
- Relative humidity: 10% to 90% (no condensation on the device)
- Atmospheric Pressure: 80 kPa to 106 kPa (600 mmHg to 795 mmHg)

Transportation and Storage

For transportation and storage, the recommended range for temperature and the humidity value for the device is as follows:

- Temperature: -20°C to 60°C (- 4°F to 140°F)
- Relative humidity: 10% to 90% (no condensation on the device)

Transporting the PT-80 Device

Disconnect all the cables from the PT-80 while carrying the device.

When you transport the device for any reason, use the original casing and packaging materials where possible. It is recommended to keep the original packaging materials for the PT-80.

If the device needs to be returned to the Device Manufacturer for Warranty related issues or repair, it is recommended that the original packaging or equivalent is used for shipping. Most shipping carriers recommend at least 2 inches of packing material around the device.



Due to Joint Commission regulations, any shipping materials including boxes sent to the Device Manufacturer must be discarded, and will be replaced.

6. Safety



The PT-80 device has been tested and approved as compliant to all the Specifications and Standards listed in Appendix B Compliance Information, and in the Appendix A Technical Specifications. Nevertheless, in order to ensure safe operation of your PT-80 device, there are a few safety warnings to bear in mind:



Do not disassemble this product. You may receive an electric shock, or foreign matter may enter and result in a fire. If a malfunction or trouble occurs, immediately turn the power off and unplug

any power source. Then contact your supplier's technical support office for repair.



Do not service or perform maintenance on the device while the device is in use. Make sure to shut the device down and unplug all cables before starting and service or maintenance work on the device.

2.1 Power Supply and Batteries

The PT-80 device contains one rechargeable battery. All rechargeable batteries degrade over time. Thus, the possible usage times for the PT-80 after a full charge can become shorter over time compared to when the device was new.



The PT-80 device uses a Li-ion Polymer battery.

If you are in a hot environment, be aware that it can affect the ability to charge the battery. The internal temperature must be between 0 °C/32 °F and 45 °C/113 °F for the battery to charge. If the internal battery temperature rises above 45 °C/113 °F the battery will not charge at all.



Avoid exposing the PT-80 device to fire or to temperatures above 60 °C/140 °F. These conditions may cause the battery to malfunction, generate heat, ignite or explode. Be aware that it is possible, in a worst-case scenario, for temperatures to reach greater than those stated above in, for example, the trunk of a car on a hot day.



Only charge the PT-80 battery in an ambient temperature of 0 °C/32 °F to 45 °C/113 °F.



Use only the supplied power adapter to charge the PT-80 device. Using unauthorized power adapters may severely damage the PT-80 device.



For safe operation of the PT-80 device, use only charger and accessories approved by Device Manufacturer.



If the Power Supply Cord is damaged it needs to be replaced by Service Personnel only. Do not use the Power Supply Cord until replaced.



Disconnect the AC power plug of the Power adapter from the wall socket when not charging the device and disconnect the power cable from the device.



Special regulations apply to shipping devices containing Li-Ion Polymer batteries. If dropped, crushed, or short-circuited, these batteries can release dangerous amounts of heat, may ignite, and/or may be dangerous near fires.



The plug/adaptor plug pins insulate the device from the power supply. Do not position the device in a position where it is difficult to disconnect the device from power safely terminate operation of the device.

2.2 Temperature



Use in direct sunlight or in any other hot environment may cause the PT-80 device to develop hot surfaces. There is a built-in temperature sensor that monitors the device temperature. If the sensor detects high internal temperature, the device will automatically trigger a Shut Down. It may take a while before PT-80 device can be restarted as the unit may first need time to cool down.

2.3 Electricity



The device contains no user serviceable parts. Do not open the case of the PT-80 Tablet Device. Doing so will void the product warranty and may expose you to electrical hazards.

2.4 Software



Using an antivirus program is strongly recommended.



Software other than that which is pre-installed on the PT-80 is installed at the user's own risk. External software could cause the PT-80 to malfunction and might not be covered by the warranty.

2.5 Magnetic Field



The PT-80 device contains magnets. Magnetic fields may interfere with pacemakers, defibrillators, or other medical devices. As a rule, maintain a minimum distance of 6 inches (15 centimeters) between any item with magnets and a heart device.

2.6 Third Party



Any use of the PT-80 outside the intended use and together with any third-party software or hardware that changes the intended use voids the responsibility of the device manufacturer.

7. Trouble shooting

In most cases, restarting your device will resolve any problem. To restart your device, hold the power button for 5 seconds, then select Shut down/Restart. If your device has crashed (and displays nothing on the screen), hold down the power button for 10 seconds to hard shutdown. Press the power button again to turn the PT-80 back on.

If this does not fix the problem, contact your supplier. Please have your serial number ready. This can be found on the back of your device.

Appendix A Technical Specifications

Processor	RK3368
	Octa-core Cortex-A53
	G6110 GPU
OS	Android 7.1.2
System Memory:	2GB DDR
Storage:	16G Flash
LCD:	8" LCD
	800 x 1280 resolution, 300nits
Touch Screen:	Multi-touch capacitive
Top Glass:	PMMA+PC
Audio jack:	Headphone and Microphone 3.5 mm
	1xSpeaker, 1xHeadset
Imaging/input	Front camera: 2M
	Rear camera: 2M
Wireless	Wi-Fi 802.11 a/b/g/n/ac
Sensors	3-axis accelerometer.
	Light sensor
Battery	3200mA 7.4V battery, 23.7w
Dock	Support 12v in and USB function
LED	Charging LED
Chassis	Front chassis: Dual injection molding
	Rear chassis: ABS+PC
Durability	Operating Temperature: 0---40°C
	Storage Temperature: -20---60 °C
	Humidity: 10% to 90%
	Drop: 3FT drop resistant on 4 corners (to plywood)
	ROHS: Compliant
	ESD protection: 6K touch, 8KV air
Regulatory Cert	IATA
	FCC

Appendix B Compliance Information

B1 FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.



Modifications not expressly approved by Device Manufacturer could void the user's authority to operate the equipment under FCC rules.

Part 15B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Modifications not expressly approved by Device Manufacturer could void the user's authority to operate the equipment under FCC rules.

The device for operation in the band 5150-5250 MHz is only for indoor use

FCC RF Radiation Exposure Statement:

- This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical hand-held operations with the device contacted directly to the human body to the sides of the device. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.

B2 Radio Wave Exposure and Specific Absorption Rate (SAR) Information

The SAR (Specific Absorption Rate) limit as dictated by the FCC (in the USA) is 1.6W/kg averaged over 1 gram of tissue. The Devices, PT-80 have been tested against these SAR limits to maintain compliance with FCC RF exposure requirements.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The highest reported SAR level for usage near the body (0mm) is 0.392 W/kg