# Self-service mobile payment device

# Instruction Manual of **Inspiry Smart Box V PPS7210**

INSPIRY 意锐

Beijing Inspiry Technology Co., Ltd.

## Solemn Statement

The mobile payment device of **Inspiry Smart Box V** has been registered in the Patent Office and Trademark Office of the People's Republic of China.

The trademarks, trade names and logos used in this manual belong to Beijing Inspiry Technology Co., Ltd. or its authorized organizations, and are protected by the laws of the People's Republic of China and international treaties.

This manual only applies to the instructions for use, service conditions, and environmental requirements of the mobile payment device of Inspiry Smart Box V in this manual.

The correctness of the data in this manual has been carefully reviewed, but Beijing Inspiry Technology Co., Ltd. reserves the right to interpret the contents.

The copyright of this manual belongs to Beijing Inspiry Technology Co., Ltd.

No person may use, copy or transmit any other part of this manual for any other purpose in any form or by any means, without the explicit written approval of Beijing Inspiry Technology Co., Ltd.

The contents of this manual are subject to change without prior notice. If no written objection to this manual is filed, you have accepted the above conditions.

## Safety Warnings!

When using **Inspiry Smart Box V**,

• Do not aim the window at the vicinity of direct sunlight or hot objects.

• Do not install the device in a hot and humid place or in a place with a low temperature such as a refrigerator to avoid malfunction of the circuit or optical components of the reader.

• Do not install the device in the place where it will come into contact with water to avoid malfunction.

• Do not operate the device near the areas with electromagnetic radiation which may affect the correctness of the reader.

• Do not drop or vibrate the reader.

• Do not disassemble the device privately.

• Do not connect improper accessories.

**Note**

• The copyright of this manual belongs to Beijing Inspiry Technology Co., Ltd.

• The copyright of the software included with the device is owned by the Company.

• Other trademarks mentioned in this manual are registered trademarks of the Company.

• The Company reserves the right to modify products and manuals without prior notice.

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.

Note: This product 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 product 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 product 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.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This eqipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

*Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.*

*Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut*

*fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.*

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This eqipment should be installed and operated with minimum distance 20cm between the radiator & your body.

ce matériel est conforme aux limites de dose d'exposition aux rayonnements, FCC / CNR-102 énoncée dans un autre environnement.cette eqipment devrait être installé et exploité avec distance minimale de 20 entre le radiateur et votre corps.

**Contents**

# 1. Introduction to Inspiry Smart Box V

## 1.1 Mobile payment device of Inspiry Smart Box V PPS7210

The self-service mobile payment device of Inspiry Smart Box V is used for clear image collection and analysis, rapid transmission and feedback reading information, etc. The appearance is exquisite and compact, with a large reading window, which is featured by powerful reading performance, and can quickly read the payment codes of WeChat, Alipay and UnionPay and achieve 360-degree 2D barcode reading. This product has passed CE, FCC and ROHS certifications.



## 1.2 Features of mobile payment device of Inspiry Smart Box V

• Excellent reading platform and self-developed devices integrated with hardware and software;

• Able to compatibly read the two-dimensional codes on papers or the similar carrier, and the two-dimensional codes on computer or mobile phone screen;

• Able to read tiny two-dimensional code symbols and two-dimensional code symbols displayed on the LCD monitor;

• Fast reading to increase work efficiency;

• First-reading success rate of over 95%, powerful error correcting;

• Flexible reading distance, making it easy to operate and unnecessary to learn to use the device;

• Have auxiliary lighting, convenient for reading under various light conditions, resulting in strong applicability and high usability.

### 1.3 Parameters of Inspiry Smart Box V PPS7210

| Models | PPS7210 |
|---|---|
| Operating System | No restrictions on operating system |
| Interfaces | USB interface |
| Wi-Fi Connectivity | Support |
| Wired Connectivity | Support |
| Voice Prompt | Support |
| Data Capture | QR code<br>Code 128<br>etc |
| Reading Speed | <100ms, sequential reading |
| Max Frame Rate | 30FPS |
| Operating Temperature | -20℃ - 60℃ |
| Operating Voltage | 5V |
| Rated Current | 2A |

## 2.  Operation Manual of Inspiry Smart Box V

### 2.1 Device connection

### 2.1.1 interfaces of PPS7210



① USB female contact can be used to connect the keyboard;

② RJ45 connects the power supply and extended functions:

Configuration for code-scanning: For details, see 2.2 Wi-Fi Configuration.

### 2.2 Wi-Fi configuration

A. Enter the URL on the mobile phone http://dm.Inspiry Smart Box V.cn/wifi-config/wifiConfig.html or use the phone to scan the QR code on the configuration page to enter the page. In the configuration page for Wi-Fi, enter the Wi-Fi name and password, and select the printer type. For example: select the printer with serial port, set the correct Baud rate, set the IP to DHCP, click it to generate a QR code, and place the QR code in the identification window of the device. At this point, the device will have a voice prompt "The device is in configuration. Please wait for a moment" and the device will restart automatically. The receipt printer outputs "Welcome, Powered by Inspiry". The device will flash from red to green, and then flash white and green alternately. At this point, the device is successfully networked.



QR code on the configuration page

3. **Handling & Storage Information**

### 3.1 Storage environment requirements:

4.1.1    Storage ambient temperature: -40℃ to +80℃

4.1.2    Relative humidity: 5% to 95% The product shall be stored in a place at room temperature and free of acid, alkali and other corrosive gases, protected from direct sunlight and rainwater, and not be squeezed or deformed by heavy object.

### 3.2 Handling requirements:

When handling or connecting the device, handle it gently to avoid strong vibration. Do not scratch or hit the enclosure and glass so as not to affect the appearance and use.

4. **Maintenance Instructions**

4.1. Regularly inspect whether the device surface is smooth and clean, and free of cracks, deformation and corrosion on the surface.

4.2. Inspect the tightness of the screws used to fix the enclosure and confirm no screws fall off.

4.3. Inspect the glass of the device and confirm that its surface is smooth and free of dirt.

4.4. Keep the device in a location where it is not exposed to direct sunlight, and keep it from magnetic interference in operation.

4.5 If the device will not be used for a long time, cut off the power supply and store the device in a dry place.

5.   Frequently Asked Questions

## 5.1. How to install the device

5.1.1 Device installation with WiFi network

USB male contact ① is connected to the power supply of the adapter in the packing box, and USB female contact ② is connected to the USB keypad or connects to the USB Hub for the extended functions of the USB, such as a printer. Configuration for code-scanning: For details, see 2.2 Wi-Fi and Printer Configuration.

5.1.2 Device installation with Wired Network

USB male contact ① is connected to the power supply of the adapter in the packing box, and USB female contact ② is connected to the Ethernet converter.

## 5.2. Networking

After the WIFI/wired network is configured, the device flashes green once every two seconds if successfully networked. It will flash red once every two seconds if not networked. The user can determine the networking situation at one time.

Fail to connect the network: Check whether the wireless network or network cable is properly connected, rescan the code, configure the network of the device, and automatically restart the device.

## 5.3. Indications of LED light

Flashing red: Network is not connected;

Flashing green: Network is connected;

Flashing blue: The device is in upgrade;

5.4. Firmware upgrade

When the firmware is upgraded, the light is flashing blue/white alternately. At this time, do not unplug the power supply. Otherwise, the upgrade will fail and the firmware will return to the pre-upgrade version.

## 6.   Device Scrap Disposal

Scrap disposal: Remove the enslouse and the circuit board. The scrap disposal of circuit boards

should comply with the local legal requirements for the recycling of electronic products.

## 7.  After-Sales Service

Please properly keep the valid accessories of your purchased product. Please show these unmodified original documents when you need help, otherwise the warranty will be invalid. The warranty service is limited to normal use. The product shall be used in strict accordance with the Manual, and shall not be dissembled privately, or connected with improper accessories, or maintained and modified with the permission of our company. The following man-induced damages are not covered by the warranty: serious deformation and damage to the enclosure due to improper operation and other man-made causes, damage and scratches of the lens, over-burning or obvious scratches of CMOS sensor, and PCB board over-burning due to improper operation.

Thank you for using Inspiry Smart Box V Reader. If you have any questions or suggestions about the contents of this Manual, please contact us in the following ways. We will continue to offer better service, and also look forward to your continuous interaction with us to encourage us to go further!

For any technical or software and hardware problems, please visit http://www.inspiry.cn for relevant product information, or call the official telephone of Beijing Inspiry Technology Co., Ltd., and our customer service engineer will answer your questions. Or can visit our official wechat account for technical information.



Address: D5, Building 1, No.6, West Shangdi Road, Haidian District, Beijing

Website: http://www.inspiry.cn

Hotline: +86-400-670-4880