

Shenzhen skyworth RGB electronic co., LTD.

Model: NTUD - U3

## Operation Instruction

Respect of customer, sincerely thank you for purchasing SKYWORTH equipped with wireless Wi-Fi NTUD - U3 - type USB peripheral products.

This product can support USB2.0 protocol, based on the IEEE 802.11 a/b/g/n/ac standard design. With all the way to send and receive all the way (2T2R) dual channel work, maximum transmission rate of up to 866 Mbps. Ensure that users browse and download data flow, security and stability.

NTUD - U3 wireless WIFI USB peripheral product support Windows XP/Vista / 7 / Linux operating system. In SKYWORTH TV, have complete embedded in the product and the driver, without user to install, and at the same time support Linux and Android.

Used in TV production operation is as follows:

1. Turn on the TV, switch to the "home page" interface.
2. Select "Settings" feature. "OK" to enter
3. Select "network setup" function. "OK" to enter.
4. Choose the "wireless network", "OK" to enter.

5. According to the needs, select "auto search", "manual connection", etc. Press the "OK" to enter

6. Choose their own after the AP name "OK" to enter, Enter the password.

Television system has the memory function, for the first time to use should be according to the above steps, later need not operation, boot automatically connected. If need to change the AP or change the mode of connection, need according to the above steps again.

**Note: 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/television technician for help.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate this equipment.

#### **FCC Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

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.

## **Regulation Information**

### **1) List of applicable FCC rules:**

**FCC part 15.249**

**FCC part 15.247**

**FCC part 15.407**

### **2) Summarize the specific operational use conditions**

**This Device and its antenna must not be co-located or  
operating in conjunction with any other antenna or  
transmitter.**

**The host product manufacturer should state this information  
to the host instruction manual.**

### **3) Limited module procedures:**

**No applicable.**

### **4) Trace antenna designs**

**No applicable.**

### **5) RF exposure considerations**

**This equipment complies with FCC RF radiation exposure  
limits set forth for an uncontrolled environment, and minimum**

of 20cm separation between antenna and body. The host product shall show the same or similar statement to the end users.

## 6) Antennas

Antenna types not included in this list, having a gain greater than the maximum gain indicated

For that type, are strictly prohibited for use with this device.

Antenna type: Integral Antenna

Bluetooth Antenna Max. Gain: 3.1dBi

Each 2.4G Wi-Fi Antenna Max. Gain: 3.1dBi

Each 5G Wi-Fi Antenna Max. Gain: 2.34dBi

## 7) Label and compliance information

The end product must carry a label stating “Contains Transmitter Module FCC ID: 2ANM3NTUDU3” or shall use e-labeling.

## 8) Information on test modes and additional testing requirements

The host manufacturer can use the software “MPTool, Version: 9.02” and “RTLBTAPP, Version: 5.2.2.75” for access to the

test modes. Connected to the computer through the serial port of the host product, the channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

**9) Additional testing, Part 15 Subpart B disclaimer**

The modular transmitter is only FCC authorized for the specific rule parts (FCC Part 15.249&15.247&15.407) list on the grant, and that the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed when contains digital circuitry.

**10) The device is going to be operated in 5150~5250MHz frequency range. It is restricted indoor environment only.**

**11) The device working temperature 0°C to +60°C**

**12) The device working voltage 3.3V±10%**

### **13) Manual Information to the End User**

**The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user' s manual of the end product which integrates this module.**

**This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:**

- 1) This device may not cause interference.**
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.**

**L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :**

- 1) L'appareil ne doit pas produire de brouillage;**

**2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.**

**The device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. Then it will scan the available radio signals. If this signal is connected before, it will be automatically connected, otherwise manual connections will be necessary.**

**A host product shall use a physical label stating “Contains IC: 23165-NTUDU3” or shall use e-labeling.**

**This radio transmitter (IC: 23165-NTUDU3) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.**

**Using e-labelling shall meet the requirements specified in Annex B of RSS-Gen issue.**

**The e-label instructions for host product:**

**1. Information to be displayed: The e-label must display the following regulatory information:**

**a) the ISED certification number and the model identification number for radio equipment**

**b) any other information required to be provided on the surface of the device, unless such information is permitted to be included in the user manual or other packaging inserts**

**2. Accessibility of the e-label:** The host manufacturer should provide a clear instruction on how to access the regulatory information stored electronically (e-label). These instructions shall meet the following requirements:

**a. be provided in the user manual, operating instructions or packaging material (e.g. on the bags used to pack the device or on accompanying leaflets), or on a website related to the product**

**b. not require the use of special access codes or accessories (e.g. SIM/USIM cards)**

**c. not include more than three steps from the device's main menu**

**The e-label shall meet the following requirements:**

**a. be easily accessible by the user**

**b. not be modifiable by the user (e.g. if stored in the firmware or software menus)**

- 3. Labelling for importation and purchasing:** Host products utilizing e-labels are required to have a physical label on the product packaging at the time of importation, marketing and sales. The following conditions shall apply:
- a. For devices imported in bulk (not packaged individually), a removable adhesive label or, for devices in protective bags, a label on the bags is acceptable to meet the physical label requirement.
  - b. Any removable label used shall survive normal shipping and handling and must only be removed by the customer after purchase. For devices already imported in individual packages ready for sale, the information may alternatively be provided on the package and shall contain:
    - i. The ISED certification number and the model identification number
    - ii. Any other information required to be provided on the surface of the product unless such information is permitted to be included in the user manual or other packaging inserts.
- 4. Security** The information to be displayed on the e-label, shall meet the following security requirements:
- a. be programmed by the responsible party (e.g. manufacturer)

**b. not be modifiable or removable during the course of normal authorized activities by a third party (i.e. the typical user), such as installing applications or accessing menus**

**5. User manual and packaging:** All information required to be on the packaging or in the user manual as per the applicable standards (e.g. RSSs) may be included in the host's e-label.

**The following considerations must be taken into account when providing such information on the e-label:**

**a. If the user manual is provided by other electronic (e.g., on CD or online), then as an option the required information may also be provided as part of the e-label.**

**b. The e-label format must clearly differentiate between the information required to be on the surface of the device and the information required to be in the user manual or on the packaging.**

#### **ISED Radiation Exposure Statement**

**This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment.**

**This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.**

**To maintain compliance with the RF exposure guidelines, place the product at least 20cm from nearby persons.**

**Pour rester en conformité avec les consignes d'exposition aux RF, placez le produit à au moins 20 cm des personnes proches.**