

# SAT>IP™ Wi-Fi Dongle



User manual

## **Safety Notes**

- As the product of wireless device, there may be difference in performance after the usage environment.
- Read thoroughly the manual before use.
- Do not touch the device during operations to avoid risk of burns.
- Keep the device unplugged if unused.
- Do not access to power adaptor or cable with wet hands.
- Do not give physical impact may cause malfunction.
- Keep the device away from magnetic materials.
- Do not place or install the device where high humidity.
- Keep the device in well-ventilation space for use.
- Do not install the device under direct sun light.
- Do not open or disassemble the device discretionally.
- Do not use power equipment except ones in the manual.
- Connection to the device may differ depends on user's device.
- Disconnect smart device before unplug the device from TV.
- Use of smart device connection is recommended in 3m.

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# 1. SAT>IP Wi-Fi Dongle

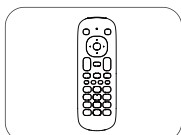
## • Specification

<b>Model name</b>	<b>SELSAT-IPD30A</b>
<b>CPU</b>	ARM Cortex A5 833MHz
<b>System / FLASH Memory</b>	512MB / 2.5GB
<b>Input device</b>	SELSAT SAT>IP RCU application / Bluetooth remote controller
<b>Audio/Video Output</b>	HDMI 1.4
<b>Wi-Fi</b>	Wi-Fi 802.11n, 2.4 / 5GHz Dual Band
<b>Bluetooth</b>	Bluetooth 4.0
<b>Power</b>	DC 5V 1A / 5W
<b>DC Input type</b>	Mini USB Adaptor
<b>Size</b>	100 × 42 × 15 mm
<b>Weight</b>	40g

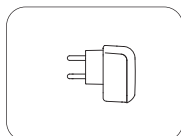
## • Components



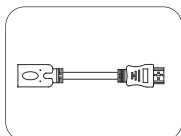
Main unit



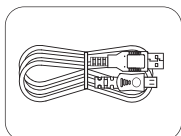
Bluetooth remote control



Power adaptor



HDMI extension cable



USB power cable



User manual

## • Name of parts – SAT>IP Wi-Fi Dongle



- ❶ **Protective Rubber**  
Pull the rubber to take out HDMI connector and micro USB power port



- ❷ **HDMI connector**  
Connect the device to HDMI port of TV

- ❸ **Micro USB power port**  
To supply power to the device



- ❹ **Air vent**  
Discharge heat during operation

- ❺ **LED lamp**  
Blue light on if the device is properly plugged and reliably supplied power

## • Name of parts – Bluetooth remote control

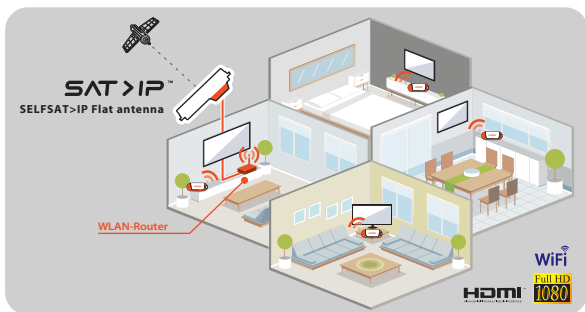


- ❶ **Power** : On / OFF
- ❷ **LED lamp** : Red light during operation
- ❸ **LANG\*** : Change to other supportive language
- ❹ **Direction keys** : Up/Down/Left/Right
- ❺ **OK** : Perform the selected menu
- ❻ **Volume** : Adjust volume
- ❼ **Channel** : Move to other channels
- ❽ **Mute** : Delete / Restore volume
- ❾ **BACK** : Go to the previous menu
- ❿ **HOME** : Go to the main screen
- ⓫ **Leave** : Finish & go back to previous stage
- ⓬ **Color keys\*\*** : For custom usage of occasions
- ⓭ **Number keys** : Go to the desire channel or other setting

\*LANG : This is only supportive for bilingual broadcast of SAT>IP

\*\*Color keys : Only available at SAT>IP. Different functions at each stage

## • Operation diagram of SAT>IP Wi-Fi Dongle



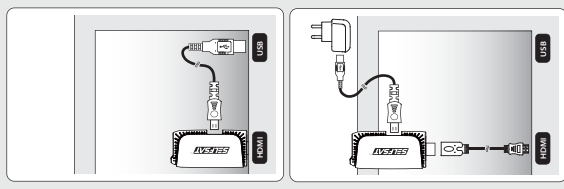
- √ To watch SAT>IP satellite broadcasting, [SELSAT>IP antenna, SAT>IP Wi-Fi Dongle and Wi-Fi AP] are required and recommended.
- √ SELSAT>IP antenna and Wi-Fi AP are not included.
- √ If SELSAT>IP antenna is not used for the connection, [SAT>IP server, antenna, SAT>IP Wi-Fi Dongle and Wi-Fi AP] are required instead.
- √ SAT>IP Dongle and Bluetooth remote control in the package are 1:1 paired for initial operation. No need further pairing except case of factory reset.
- √ Be aware of possibility of Wi-Fi interference during operations.

## 2. SAT>IP Wi-Fi Dongle preparation

### • SAT>IP Wi-Fi Dongle set up

- ① Plug SAT>IP Wi-Fi Dongle direct into HDMI port of TV/monitor or using HDMI extension cable.
- ② Connect SAT>IP Wi-Fi Dongle and TV/monitor using USB power cable. If TV/monitor does not have USB port to supply power, connect SAT>IP Wi-Fi Dongle to wall socket using USB power cable and power adaptor included. See below.

#### Example ①, ②

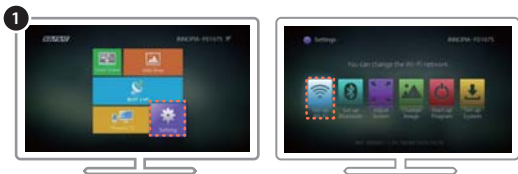


- ③ Make sure that required equipment and AP's network ID/password are prepared to add SAT>IP Wi-Fi Dongle to the Wi-Fi network. W-Fi AP must be the one connected from SELFSAT>IP antenna which is pointing the satellite.

- √ In case TV/monitor outputs below than 1A(1,000mA), an operation may not be smooth due to lack of power.
- √ Use HDMI extension cable is recommended instead of direct connection between SAT>IP Wi-Fi Dongle and TV/monitor .
- √ Parts' name and location may differ from stated in this manual.

## • Wi-Fi setting of Bluetooth remote control

- √ SAT>IP Wi-Fi Dongle and Bluetooth remote control packed in a box are 1:1 paired for initial operation. No need further pairing except case of factory reset.



- ① Select "Setting" > "Set up Wi-Fi" on the right bottom at main screen using Bluetooth remote control.



- ② Find and select Wi-Fi AP's network ID in Wi-Fi list available.
- ③ If the selected Wi-Fi is locked, input password to join to the network.

- √ To add Wi-Fi network manually to the list, select "Add Wi-Fi network" at the bottom to pop up related screen → Input Wi-Fi name → Select security type among None, WEP and WPA/WPA2 (recommended) → Enter password → press "Connection" button. If there is no security option, input Wi-Fi name and press "Connection" button.

- √ Wi-Fi AP must be the one connected from SELFSAT>IP antenna which is pointing the satellite.

- √ SAT>IP function is fully manageable by Bluetooth remote control but other entertainment functions and setting of the device will need "SELFSAT SAT>IP RCU", relative mobile application.



### 3. Main function - SAT>IP

- √ When user plug SAT>IP Wi-Fi Dongle in TV/monitor and supply power, the device boots and main screen is shown and default (center) option is SAT>IP.



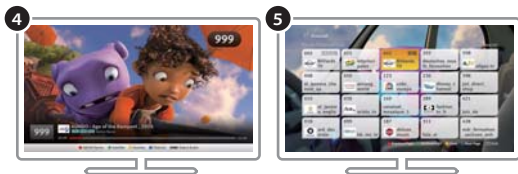
#### SAT>IP

SAT>IP is the main function of the device which enables live streaming of target satellite channels.

- ① Select "SAT>IP" function at main screen of SAT>IP Wi-Fi Dongle display.



- ② Press **Red key** to see available SAT>IP server list and choose one to connect.
- ③ Press **Green key** to select one satellite that SELFSAT>IP antenna is pointing among all listed.



- ④ Default channel of the satellite will be shown.
- ⑤ Press **Blue key** to see all available channel list for selected satellite and change using direction keys.
- ⑥ To make favorite channels list, press **Yellow key** and create list (up to 9 lists) on your own.

## 4. Entertainment functions

If Wi-Fi AP is not available to use, go to "Setting" > "Set up system" > "Phone to TV / SlideShow mode" and change from "Router" to "Direct" to enjoy entertainment functions.



### SmartShare connection

To watch contents of mobile devices, connected in same AP, using DLNA function.

- ① Select "SmartShare" function at main screen of the device.
- ② Select user's device among the connected available devices in same Wi-Fi AP.



### SlideShow connection

Duplicating service of smart device contents onto bigger screen as transferring to SAT>IP Wi-Fi Dongle.

- ① Select "SlideShow" function at main screen of the device.
- ② Check the user's device is connected in same Wi-Fi connection of SAT>IP Wi-Fi Dongle.



### Phone to TV connection

Streaming service of smart device contents onto TV via SAT>IP Wi-Fi Dongle.

- ① The connection may takes time depends on Wi-Fi condition.
- ② Video is recommended not to exceed 2GB some contents may not be played if codec is not supportive.

## 5. SAT>IP Wi-Fi Dongle settings



### Setting

Set and change options of the device .

- **Set up Wi-Fi :** Select desire Wi-Fi for initial connection or change to a new.
- **Set up Bluetooth :** Scan/pair with available Bluetooth device.
- **Adjust Screen :** Adjust the screen size using up/down/left/right buttons.
- **Change Image :** Change background of main screen.
- **Startup Program :** Change default program when booting.
- **Set up System :**
  - ① **Phone to TV/SlideShow mode :**  
Change mode from "Router" to "Direct" if Wi-Fi AP is not available.
  - ② **TV remote control supported HDMI-CEC :**  
Turn on for SAT>IP Wi-Fi Dongle controlling with TV remote control. This is only available at TV/monitor supports controlling function of HDMI connected device.
  - ③ **Alarm of the different devices :**  
Turn on for a notice of Qualcomm's Alljoin based device is connected.
  - ④ **Alarm of the latest firmware update :**  
Turn on for a notice of the latest F/W released.
  - ⑤ **New firmware not be found / New firmware found on the system :**  
If there is new latest firmware released. UPDATE button on the right is activated. Click "UPDATE" to update the latest firmware.
  - ⑥ **Reset your SAT>IP configuration to default :**  
Reset stored configurations and channel information back to default.
  - ⑦ **Reset your SAT>IP Dongle to factory settings :**  
To setup the device as manufactured from a factory. This makes Bluetooth remote control & Wi-Fi AP connection and SAT>IP channel information will be deleted. New connection process is required.

**SAT>IP function is fully manageable by Bluetooth remote control but other entertainment functions and setting of the device will need "SELSAT SAT>IP RCU", relative mobile application.**

### • Remote control application for Android

- ① Download "SELSAT SAT>IP RCU" at Google Play Store.
- ② Run downloaded application and SAT>IP Wi-Fi Dongle will be auto-detected.



- ③ Check the product code at SAT>IP Wi-Fi Dongle display (on the right upper corner).
  - ④ Select the same one at mobile application to complete Bluetooth connection between SAT>IP Wi-Fi Dongle and mobile.
- √ **If there is only one SAT>IP Dongle available and one mobile device, the device may skip ③ and ④.**

### • Remote control application for iOS

√ **Wi-Fi setting for Bluetooth remote control (page8) should be pre-conducted.**

- ① Download "SELSAT SAT>IP RCU" at App Store.
- ② Go to "Setting" > "Connection" and select SAT>IP Wi-Fi Dongle's product code to be connected.

√ **If user have to connect to new Wi-Fi AP without Bluetooth remote control, please follow the below.**

- ① Download "SELSAT SAT>IP RCU" at App store.
- ② Go to "Setting" > "Wi-Fi" on mobile and scan available Wi-Fi networks.
- ③ Check the product code at SAT>IP Wi-Fi Dongle display and select the same one at mobile application.
- ④ Run downloaded application.
- ⑤ Go to "Setting" > "Set up Wi-Fi" > "Add Wi-Fi network" on TV/monitor using direction keys of mobile application.
- ⑥ Input desire Wi-Fi AP's network name and password, and choose security option.
- ⑦ Change mobile Wi-Fi network from SAT>IP Wi-Fi Dongle's product code to desire Wi-Fi AP's to complete.
- ⑧ For the final stage, go to "Setting" > "Connection" and select the product code again at mobile application.

## • Name of parts – Remote control application



- ❶ **Power** : ON / OFF
- ❷ **Home** : Go to the main screen
- ❸ **Direction key** : Up/Down/Left/Right
- ❹ **OK** : Perform the selected menu
- ❺ **Volume** : Adjust volume
- ❻ **Channel** : Move to other channels
- ❼ **Color key\*\*** : For custom usage of occasions
- ❽ **LANG\*** : Change to other language
- ❾ **Touch pad** : Touch pad/Keyboard inputs
- ❿ **Setting** : Bluetooth connection /Application info/Help
- ⓫ **Back** : Go to the previous menu
- ⓬ **Number keys** : Go to the desire channel or other setting

\*LANG : This is only supportive for bilingual broadcast of SAT>IP

\*\*Color keys : Only available at SAT>IP. Different functions at each stage

## 6. Troubleshooting for Bluetooth remote control

### • Re-pairing of Bluetooth remote control

- √ Re-connection of Bluetooth is only required when user conducted factory reset.
- √ To re-connect of Bluetooth remote control and SAT>IP Wi-Fi Dongle, "SELSAT SAT>IP RCU" has to be downloaded and paired to SAT>IP Wi-Fi Dongle in advance.



- ① Select "Setting" > "Set up Bluetooth" at main screen to see available devices to be connected.



- ② Press power button to turn on the Bluetooth remote control.  
③ Press and hold "A#1" and "←" buttons for 10 seconds. If light on the LED lamp, the devices is in connection mode.



- ④ Check the product code at SAT>IP Wi-Fi Dongle display and select the same one on mobile RCU application to register and pair SAT>IP Wi-Fi Dongle and Bluetooth remote control.  
⑤ If the product code is not shown, re-scan the available devices on user's device.

## 7. Common Q & A

### • No HDMI ports at TV/monitor

- Additional purchase of HDMI to RGB(analog) converter is required to use the device.
- Converter with external power supply port is recommended for stable operation.

### • Contents is not playing or TV/monitor is flashing or “No signal” is shown

- Check if the power of the device is properly connected.
- Check the HDMI is properly plugged and TV's external input is arranged to HDMI.
- Check the status of Wi-Fi at main screen. If signal is weak, get rid of blockage between Wi-Fi AP and SAT>IP Wi-Fi Dongle and place them closer.



### • Problem with SAT>IP broadcasting reception

- Press red key to check the name and status of connected SAT>IP server. If desired one is not found,
  - ① Restart SAT>IP server
  - ② or Check the connection of SAT>IP server and Wi-Fi AP
  - ③ or Check the Wi-Fi connection of SAT>IP Wi-Fi Dongle
- If there is no issue from the above, go to "Setting" > "Set up system" > "SAT>IP Configuration to default" and then restart.



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