J-TECH DIGITAL JTD-636 48-Port Switch Matrix User Manual

USER MANUAL

J-Tech Digital 48-Port Switch Matrix
JTD-636 | JTECH-48NS

Dear Customer

Thank you for purchasing this product. For optimum performance and safety concerns, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Contents

Features

- 10Mbps/100Mbps/1000Mbps Network Switch Specially Optimized for J-Tech Digital's HDMI extender matrix.
- Port 1 to Port 46 can be reconfigured as input or output ports & User-friendly Web GUI for Port-to-Port routing.
- Port 47 & 48 are exclusively for management. Supports user management.
- Firmware upgrades and free technical support from J-Tech Digital. Android control app is available on Google Play: search "J-Tech Digital Control" to find more details.

Notice
J-Tech Digital, Inc reserves the right to make changes in the hardware, packaging, and any accompanying documentation without prior written notice.
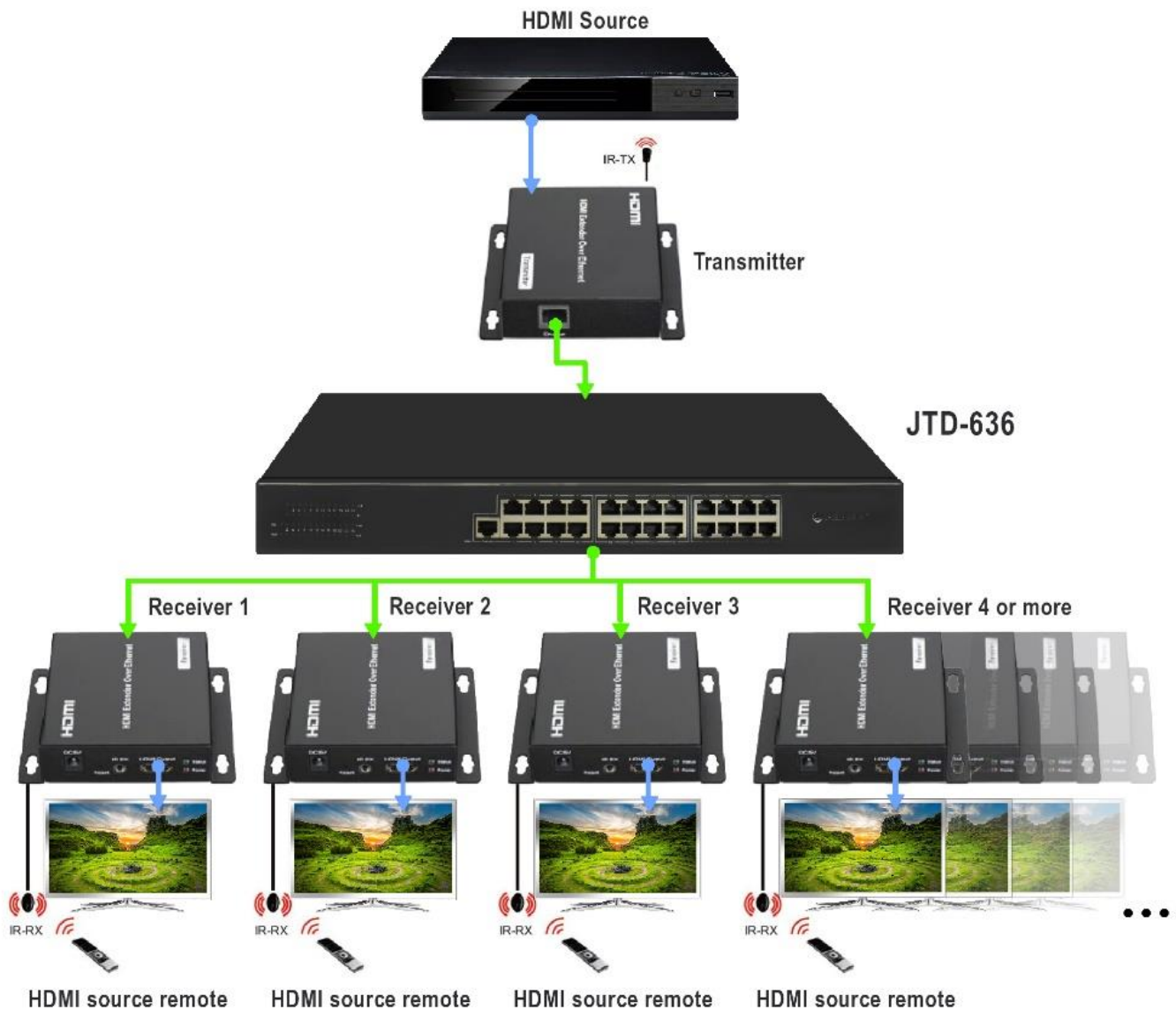
Package Contents

- User manual X1
- Warranty Card X1
- JTECH-48NS X1
- Rackmount Ears X2
- Power Cable X1

Typical Applications

One to Many Configuration
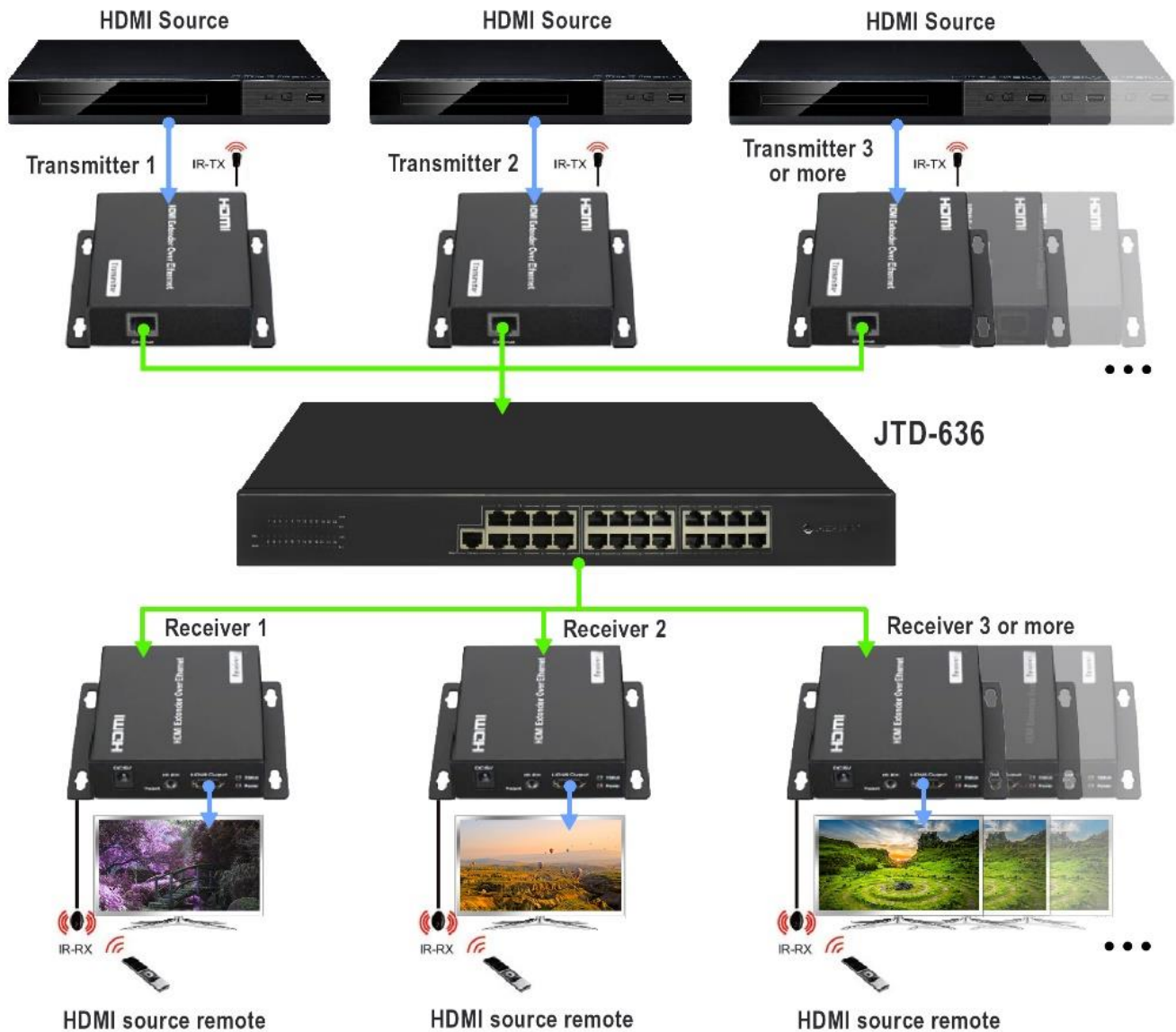
One to Many

HDMI Cable
CAT 5E/ 6A Cable
IR Control

HDMI Source

IR-TX

Transmitter

JTD-636

Receiver 1   Receiver 2   Receiver 3   Receiver 4 or more

IR-RX   IR-RX   IR-RX   IR-RX

HDMI source remote   HDMI source remote   HDMI source remote   HDMI source remote

Many to Many Configuration

Login to the switch

Step 1: Connect your PC (or laptop) to this switch on port 48 (default management port), revise your PC's IP address; PC's IP: 192.168.168.11(0-255), PC's IP address must be different than Switch's IP address (192.168.168.254 default IP).

Step 2: Open a web browser and type in this address 'Http://192.168.168.254' (192.168.168.254 is the default IP address), input **Username: admin, Password: admin**

After clicking the Login button, the current port routing will be shown as below:

PORT TOOLS

1. **Port Setting**

   Referencing your desired Transmitter (TX) and Receiver (RX) connections, designate your available ports as an Input ports or Output ports in the web GUI.

   Here is an example that demonstrates how to change port 45 and port 46 from Output to Input ports. Follow Steps 1 3 below:

☐	16	P16	Input
☐	17	P17	Input
☐	18	P18	Input
☐	19	P19	Input
☐	20	P20	Input
☐	21	P21	Input
☐	22	P22	Input
☐	23	P23	Input
☐	24	P24	Output
☐	25	P25	Output
☐	26	P26	Output
☐	27	P27	Output
☐	28	P28	Output
☐	29	P29	Output
☐	30	P30	Output
☐	31	P31	Output
☐	32	P32	Output
☐	33	P33	Output
☐	34	P34	Output
☐	35	P35	Output
☐	36	P36	Output
☐	37	P37	Output
☐	38	P38	Output
☐	39	P39	Output
☐	40	P40	Output
☐	41	P41	Output
☐	42	P42	Output
☐	43	P43	Output
☐	44	P44	Output
☑	45	P45	Output
☑	46	P46	Output
☐	47	P47	Management
☐	48	P48	Management

PORT TOOLS
Port Setting
Port Routing
SYSTEM
PORT CABLE TEST

1

2

3   Edit

After clicking the 'Edit' button, you will see the input/output setting and be able to add a description for the port.

PORT TOOLS
Port Setting
Port Routing
SYSTEM
PORT CABLE TEST

Edit Port Setting

Port	P45-P46
Description	

4

Mode	◉ Input
	○ Output

5

6   Apply   Close

Click Apply and Port 45 and Port 46 will change from output to input.

☐	16	P16	Input
☐	17	P17	Input
☐	18	P18	Input
☐	19	P19	Input
☐	20	P20	Input
☐	21	P21	Input
☐	22	P22	Input
☐	23	P23	Input
☐	24	P24	Output
☐	25	P25	Output
☐	26	P26	Output
☐	27	P27	Output
☐	28	P28	Output
☐	29	P29	Output
☐	30	P30	Output
☐	31	P31	Output
☐	32	P32	Output
☐	33	P33	Output
☐	34	P34	Output
☐	35	P35	Output
☐	36	P36	Output
☐	37	P37	Output
☐	38	P38	Output
☐	39	P39	Output
☐	40	P40	Output
☐	41	P41	Output
☐	42	P42	Output
☐	43	P43	Output
☐	44	P44	Input
☐	45	P45	Input
☐	46	P46	Input
☐	47	P47	Management
☐	48	P48	Management

Edit

2. **Port Routing**

In PORT TOOLS, you can set each "Output" port to display any "Input" port's content. For example, if you want the output P14 and P15 to display the same Input source (port 1), you can set it as below:

After these steps, the matrix will send P1 source to output ports P14 and P15.

You can use mode 1-4 to save and recall customized port routing configurations. Here is an example setting port routing data for mode2.

	Output	P14	P15	P16	P17	P18	P19	P20	P21	P22
	Input									
1	P1	☐	☐	☐	☑	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☐	☐	☐	2☐	☐	☐	☐
4	P4	☐	☐	☐	☐	☑	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☐	☐	☐	☐	☐
8	P8	☐	☐	☐	☐	☐	☐	☐	☐	☐
9	P9	☐	☐	☐	☐	☐	☐	☐	☐	☐
10	P10	☐	☐	☐	☐	☐	☐	☐	☐	☐
11	P11	☐	☐	☐	☐	☐	☐	☐	☐	☐
12	P12	☐	☐	☐	☐	☐	☐	☐	☐	☐
13	P13	☐	☐	☐	☐	☐	☐	☐	☐	☐

1

Mode1	Mode2	Mode3	Mode4

| Save and Apply | 3

After you click `Save and Apply', Mode2 routing configuration will be saved, and the routing data will be applied to the switch.

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PORT TOOLS >> Port Routing

PORT TOOLS
Port Setting
Port Routing
SYSTEM
PORT CABLE TEST

Current Mode:Mode2

	Output	P14	P15	P16	P17	P18	P19	P20	P21	P22
	Input									
1	P1	☐	☐	☐	☑	☐	☐	☐	☐	☐
2	P2	☐	☐	☐	☐	☐	☐	☐	☐	☐
3	P3	☐	☐	☐	☐	☐	☐	☐	☐	☐
4	P4	☐	☐	☐	☐	☑	☐	☐	☐	☐
5	P5	☐	☐	☐	☐	☐	☐	☐	☐	☐
6	P6	☐	☐	☐	☐	☐	☐	☐	☐	☐
7	P7	☐	☐	☐	☐	☐	☐	☐	☐	☐

System

1. **User management**

Add a user account via steps 1-7 and edit a user account following steps 8-12 shown below:

Also, you can delete a user account as below:

2. **System Config**

   Setting IP address, subnet mask, gateway for matrix.

   After clicking "Apply" the device will apply the new IP information. You will need to use these new settings to login to the web GUI.

3. **System Status**
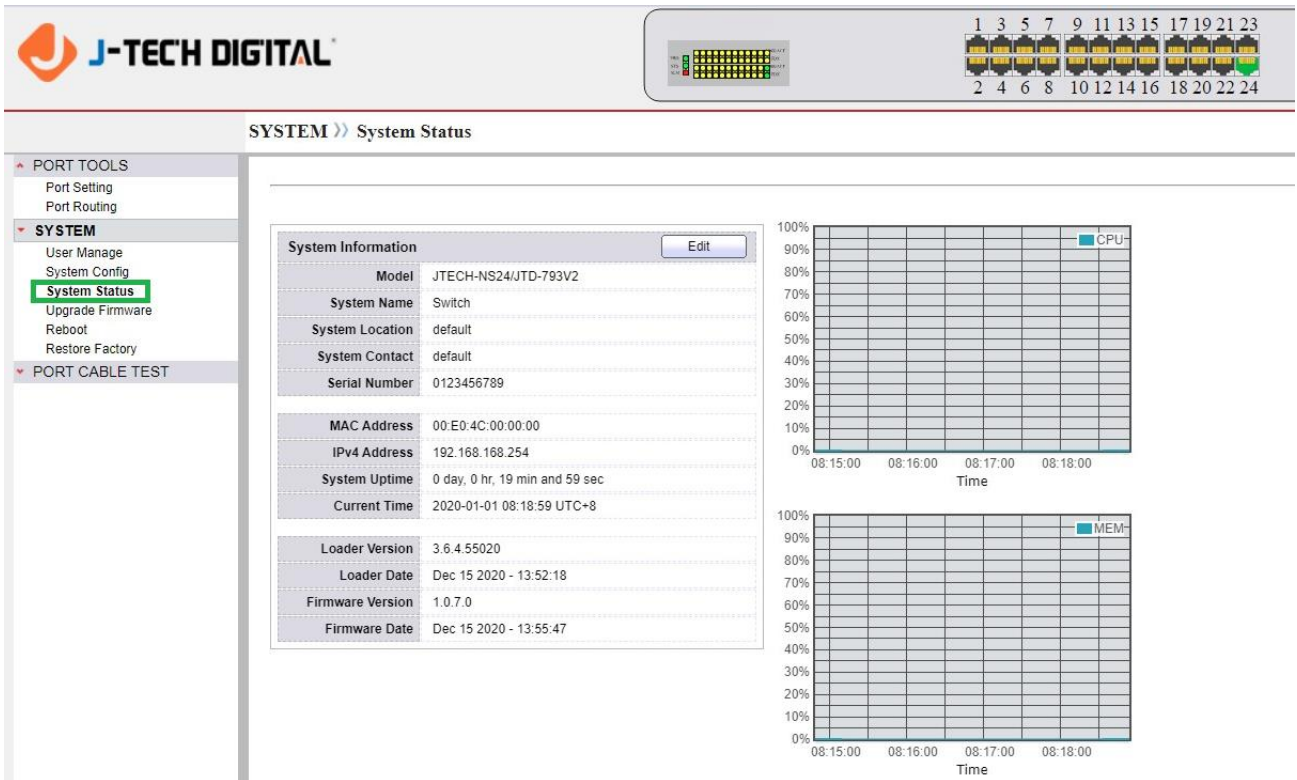
4. **Upgrade Firmware**

   Follow steps 1-4 to upgrade the firmware. It will take up to 10 minutes to complete. Don't power off during the upgrade process. After you finish the upgrade, you can reboot the unit.
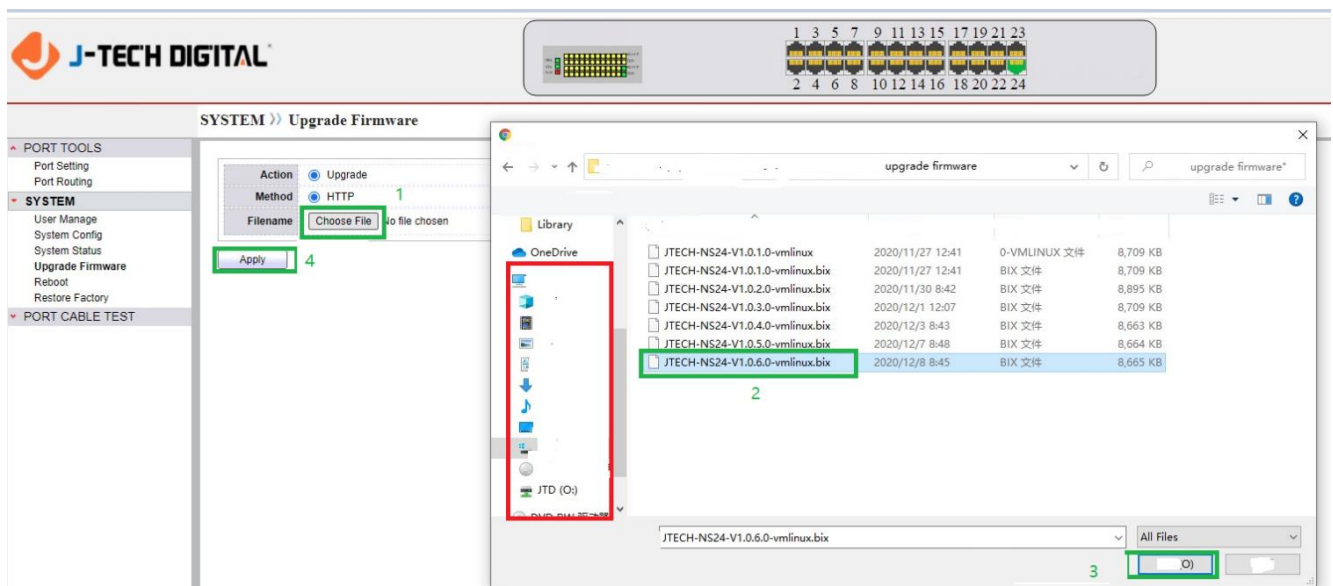
5. **Reboot**
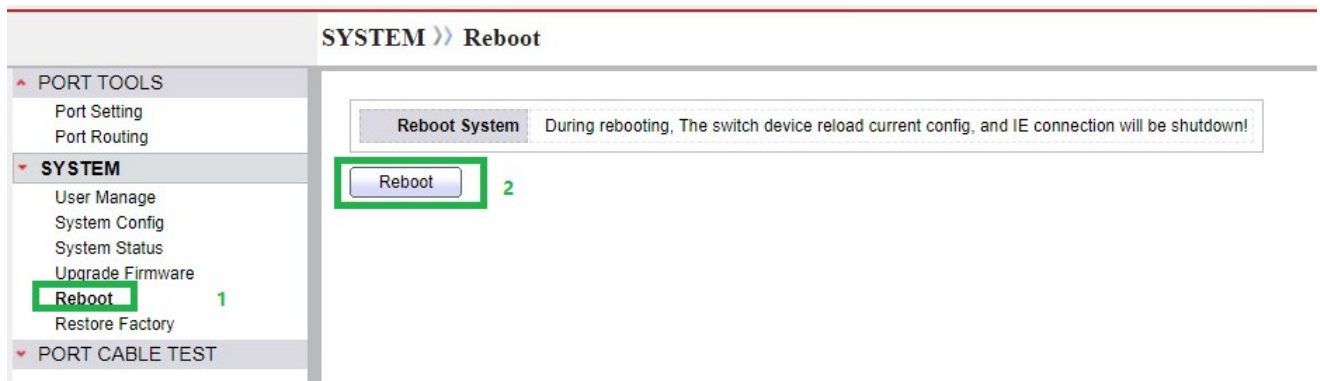
   After steps 1 & 2, a dialogue box will display "Reboot the system, Do you want to continue?", click ok. Please note that if `ok" is not selected promptly, you may be asked to login to the web gui again.

6. **Restore Factory Default Settings**

`Restore Factory Default` will set the switch to the default settings.

After step 2, a dialogue box will display" Restore to factory defaults, You need to reboot the device to take effect. Do you want to continue?" Click ok to continue. The dialogue box will display "Reboot the device to take effect now, Do you want to continue?" Click ok to reboot the system. Factory Default settings
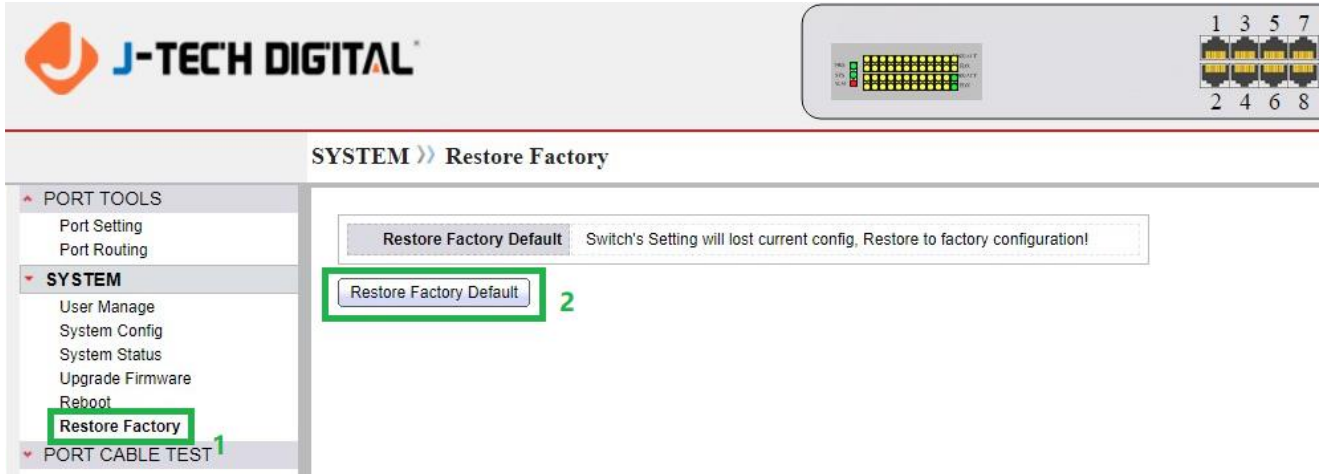
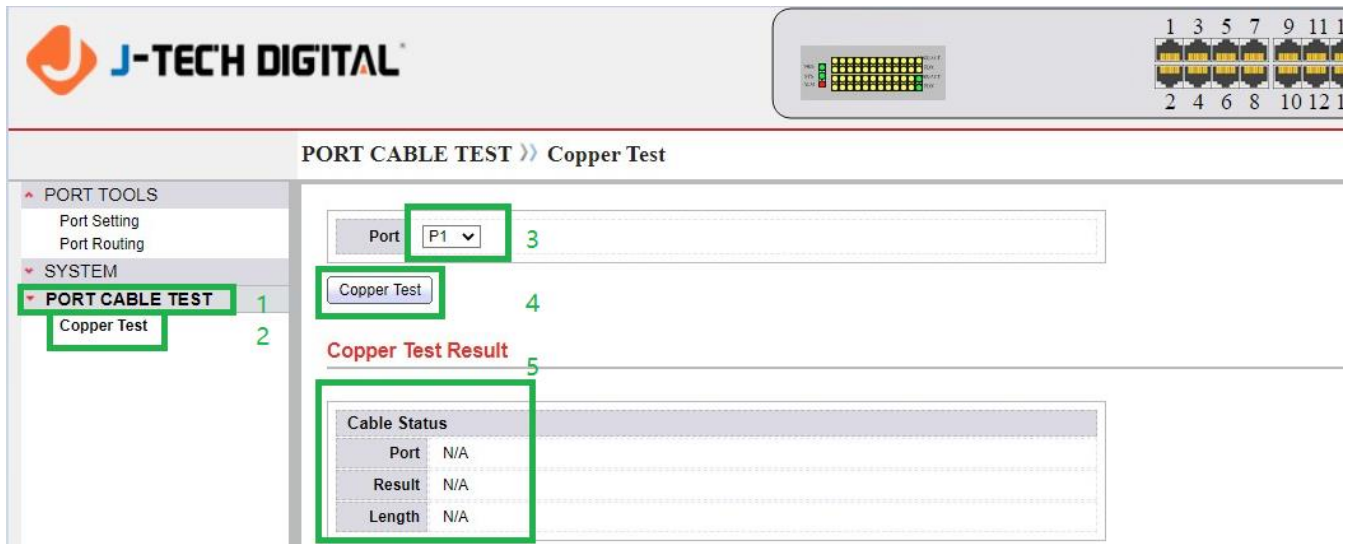IP address192.168.168.254

Subnet mask255.255.255.0

Gateway 192.168.1.1

Account admin

Password admin

Management portport 47port 48

Port Cable Test

After steps 1-4, you will receive the cable test results. A status example is shown below:

- ▲ PORT TOOLS
  - Port Setting
  - Port Routing
- ▼ SYSTEM
- ▼ PORT CABLE TEST
  - Copper Test

Port [P24 ▾]

[Copper Test]

Copper Test Result

Cable Status

Port	P24
Result	OK
Length	6.0 M

WARRANTY

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase.

For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted.

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Documents / Resources

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Manuals+,