

## ***19" 1RU Power Supply Frame With Diagnosis Feature***



### **User Manual BR-600**

## **Manual Contents**

Welcome!	- 3 -
Product Description	- 3 -
Shipping group	- 4 -
Product overview	- 4 -
Installation	- 5 -
Ensuring Main Power Supply Integrity	- 7 -
PC Settings for 'Diagnosis Link Manger'	- 8 -
Diagnosis Link Manager Settings	- 10 -
Managing Main Power through GUI	- 11 -

# Welcome!

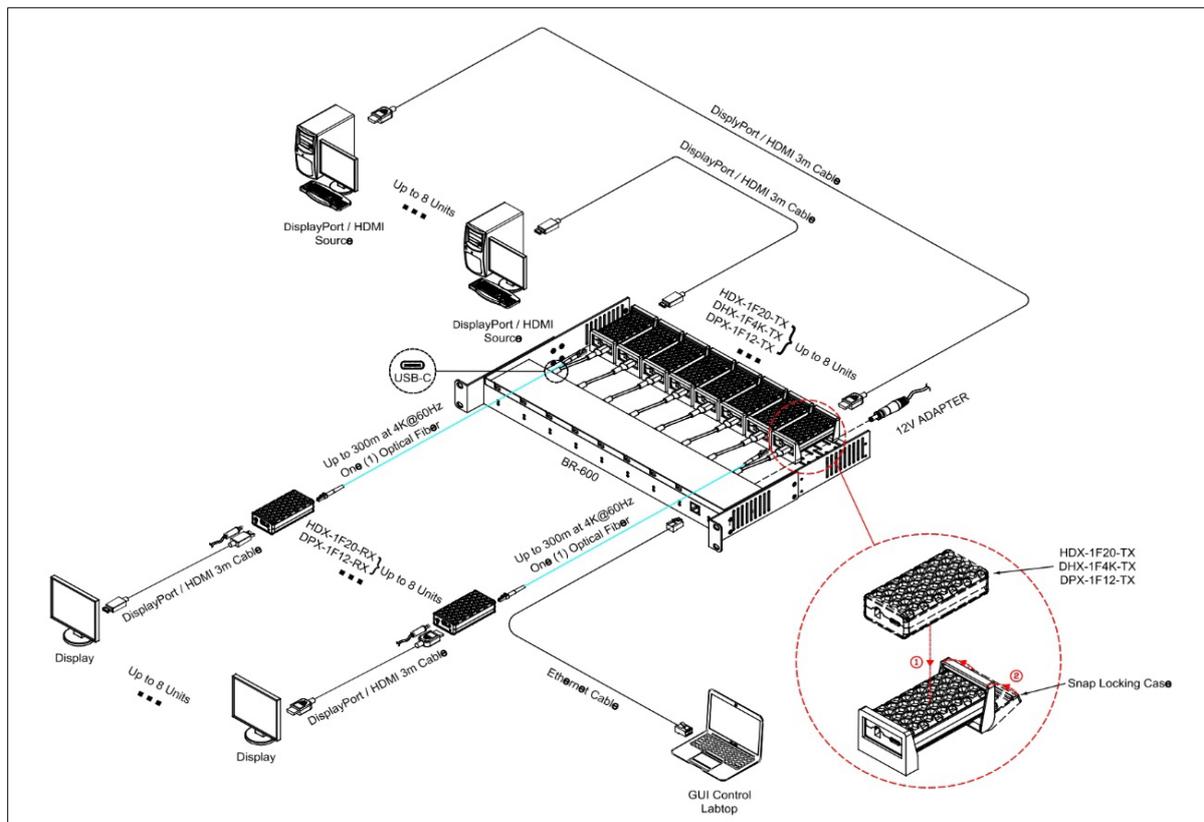
Congratulations on your purchase of the **19" 1RU multi-mounting rack, BR-600**. This manual contains information that will assist you in installing and operating the product.

## Product Description

Opticis' **BR-600**, 19" 1RU multi-mounting rack, is a modular rack and systematic fiber-optic solution providing flexibility to install Opticis optical 4K extenders up to 8 units. Mounting transmitters that offer diagnostic capabilities allows for real-time monitoring and efficient system management: **HDX-1F20-TX**, **DPX-1F12-TX** and **DHX-1F4K-TX**.

BR-600 includes a diagnosis feature designed to facilitate comprehensive management and troubleshooting of optical connectivity. This feature is supported by 'Diagnosis Link Manager', which allows users to maintain and manage the system efficiently. BR-600 offers easy monitoring and control via the GUI, allowing seamless integration and management of optical extenders, including DisplayPort, HDMI, and even DP to HDMI converting products. Opticis' patented Snap Lock makes it easy to equip the optical extender to the BR-600 and keep it secure.

*\*Note: Contact the regional sales representative or [tosales@opticis.com](mailto:tosales@opticis.com) to get information for the 'Diagnosis Link Manager'.*



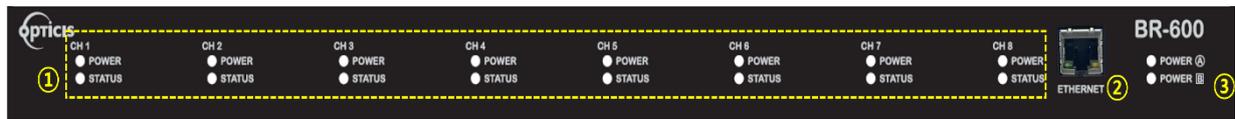
<Connection Diagram>

## Shipping group

- **BR-600:** One (1) unit
- **USB type C cable:** Eight (8) units
- **User manual:** One (1) unit
- **Options**
  - 1) **BR-600-IT (BI050S12F02):** Power Supply for BR-600 (100-240VAC, 50-60Hz)
  - 2) **BR-600-MD (BM050S12F02):** Medical Certified Power Supply for BR-600 (100-240VAC, 50-60Hz)

## Product Overview

### Front View



- ① **Channel 1 ~ Channel 8 Power & Status LED:** Each channel is equipped with Power and Status LEDs to monitor connection status and power.
- ② **Ethernet Port:** Provides network connectivity for communication and control.
- ③ **Main Power A & B LED:** These LEDs indicate the operational status of the primary and secondary power supplies.

### Rear View



- ④ **Phoenix Connector A & B (DC Socket):** These connectors provide DC power input for the system, ensuring stable power delivery.
- ⑤ **Main Power A & B Ports (12V DC Jack):** These ports are for connecting the A and B 12V DC locking type power supplies, which feature a locking type for secure connection.
- ⑥ **Channel 1 ~ Channel 8 USB-C Ports:** These ports are used to connect the BR-600 to the optical extenders with USB Type C cable, providing data transmission for each channel.

# Installation

**\*Important:** Please follow the installation procedure below. Failure to adhere to the correct installation sequence may result in improper operation or damage to the unit.

## Step 1

Carefully unpack the BR-600 from its package box and prepare extenders for installation.

## Step 2

Connect the power supply to BR-600 and check the power status.

**\*Note:** For detailed instructions, please refer to page 7.



<Unbox the contents and connect the power supply to the BR-600>

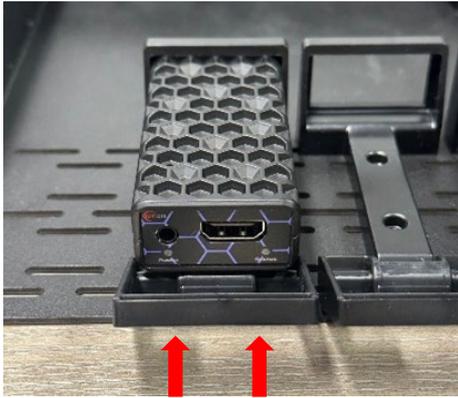
## Step 3

Secure up to eight extenders into the **Snap Lock**. Position that HDMI or DisplayPort connectors are aligned according to the direction indicated by the arrow and push extenders inward until they are firmly locked in place.

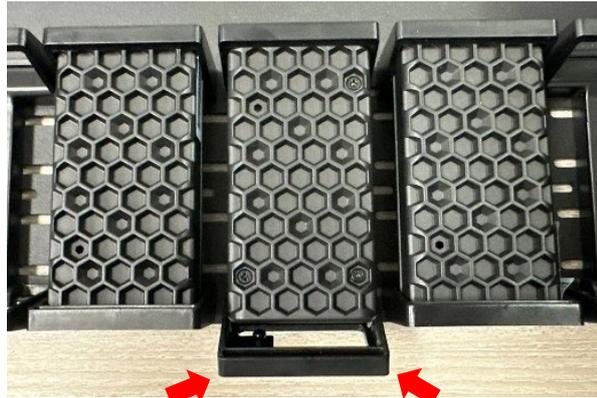


<Snap Lock>

**\*Note:** Ensure that the extenders are not inserted in the reverse direction; otherwise, the Snap Lock will not close properly. Additionally, improperly inserted extenders will not align correctly with others.



Place the connectors in the direction of the arrow.

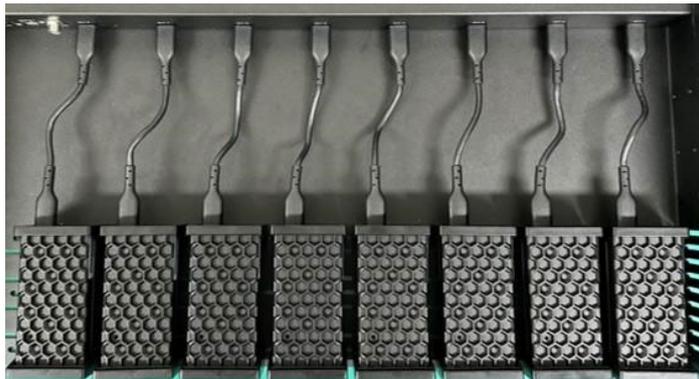


In the opposite direction, the frame will not close securely over the product.

<Insert the modules into the Snap Lock and confirm that their connectors face the direction indicated by the arrow>

#### Step 4

Connect the extenders to BR-600 with using USB-C cable included in the package.



<Connect optical extenders to the BR-600 with USB-C cables>

#### Step 5

Connect Ethernet cable between the Ethernet port on the front of BR-600 to your device (PC or Laptop) to enable the Diagnosis Link Manager.



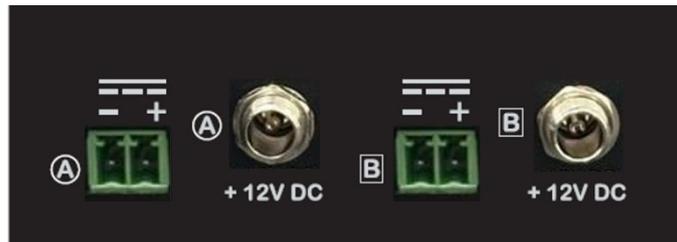
<Connect ethernet cable to your device to activate the diagnosis feature>

# Ensuring Main Power Supply Integrity

BR-600 offers enhanced power supply features, providing greater reliability and redundancy. The unit is equipped with two DC locking type and two Phoenix type power supply ports. And this dual-port configuration ensures continued operation even if one port fails, the other can continue to supply power, keeping the system powered. This setup minimized the risk of power-related disruptions by ensuring redundancy.

In addition, you can connect both power ports simultaneously. The system’s resilience is increased, offering robust protection against power supply failures.

## Power Configuration for BR-600 (Locking DC Jack x2 / Phoenix Connector x2)



< Power Configuration for BR-600, Locking DC Jack x2 / Phoenix connector x2>

To verify the power LED status of the BR-600, apply a supply voltage of 12V to the DC powers or Phoenix terminals. First, activate BR-600 by powering it on with a 12V power supply. Once the device is powered on, check the power LED indicators to observe their status.

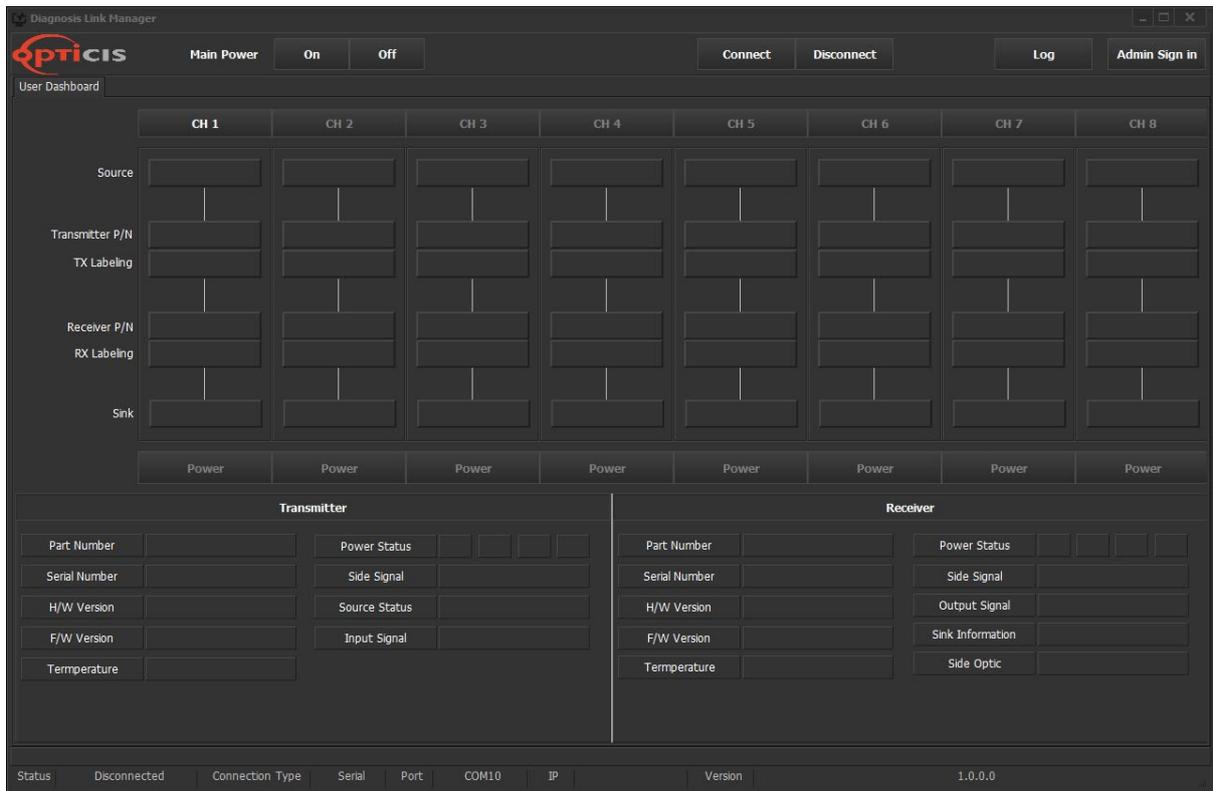
Power port A is connected	Power port B is connected	Both power ports are connected
<b>BR-600</b> ● POWER (A) ● POWER (B)	<b>BR-600</b> ● POWER (A) ● POWER (B)	<b>BR-600</b> ● POWER (A) ● POWER (B)

<LED Status by Power Supply Port>



< Both power ports can be connected simultaneously, and both LEDs will only light when both power ports are in use. >

# PC Settings for 'Diagnosis Link Manager'



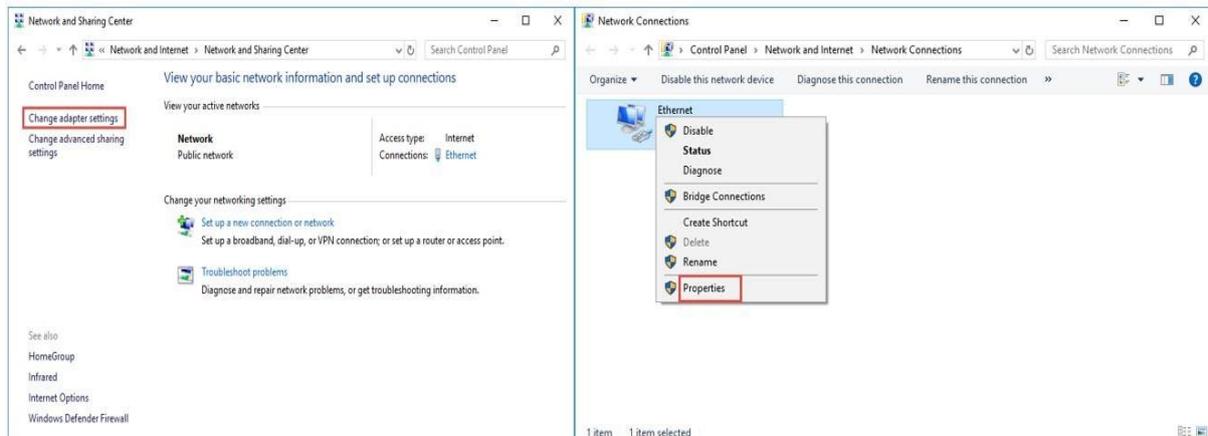
<Diagnosis Link Manager - Initial Screen>

## Step 1. Search for Network Settings

Go to your PC's network settings and click on "Change adapter options".

## Step 2. Access Ethernet Properties

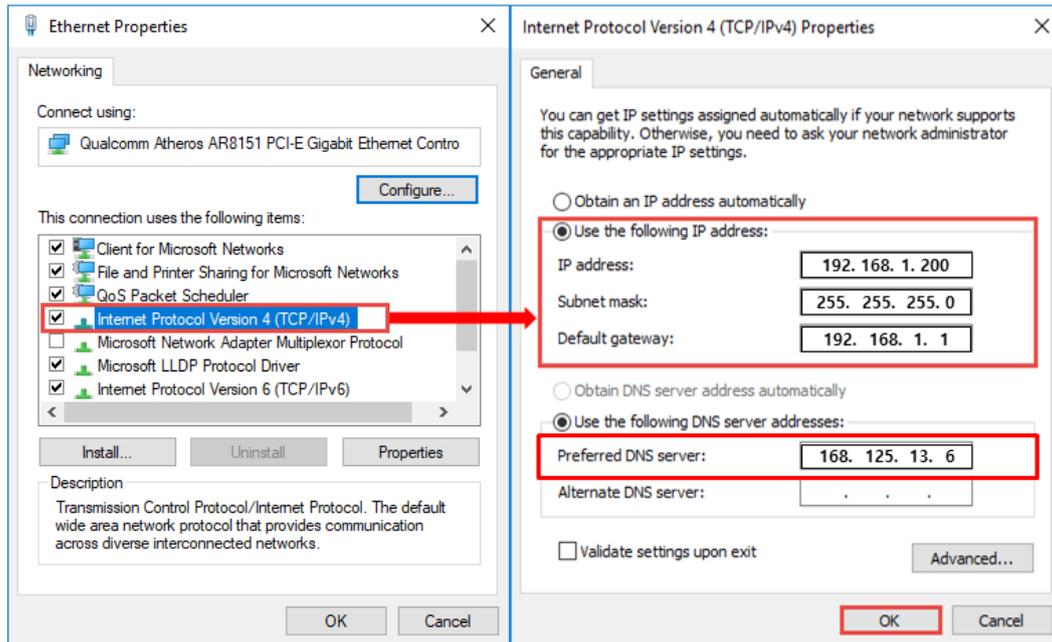
Right-click on the Ethernet network and select "Properties."



## Step 3. Configure IP Settings

Under Internet Protocol Version 4 (TCP/IPv4), enter the required IP address and DNS server address.

IP address	<b>192. 168. 1. 200</b>
Subnet mask	<b>225. 255. 255. 0</b>
Default gateway	<b>192. 168. 1. 1</b>
DNS server	<b>168. 125. 13. 6</b>



*\*Note: Currently, this GUI is supported exclusively on Windows 10 and Windows 11. Future updates may include support for other operating systems.*

# Diagnosis Link Manager Settings

BR-600 introduces a new feature, Diagnosis, designed to provide convenient management even from a long distance. When products with diagnosis feature are installed in BR-600, not only diagnosis feature, but also one step feature can be used that allows the management of products up to 8 extenders at once.

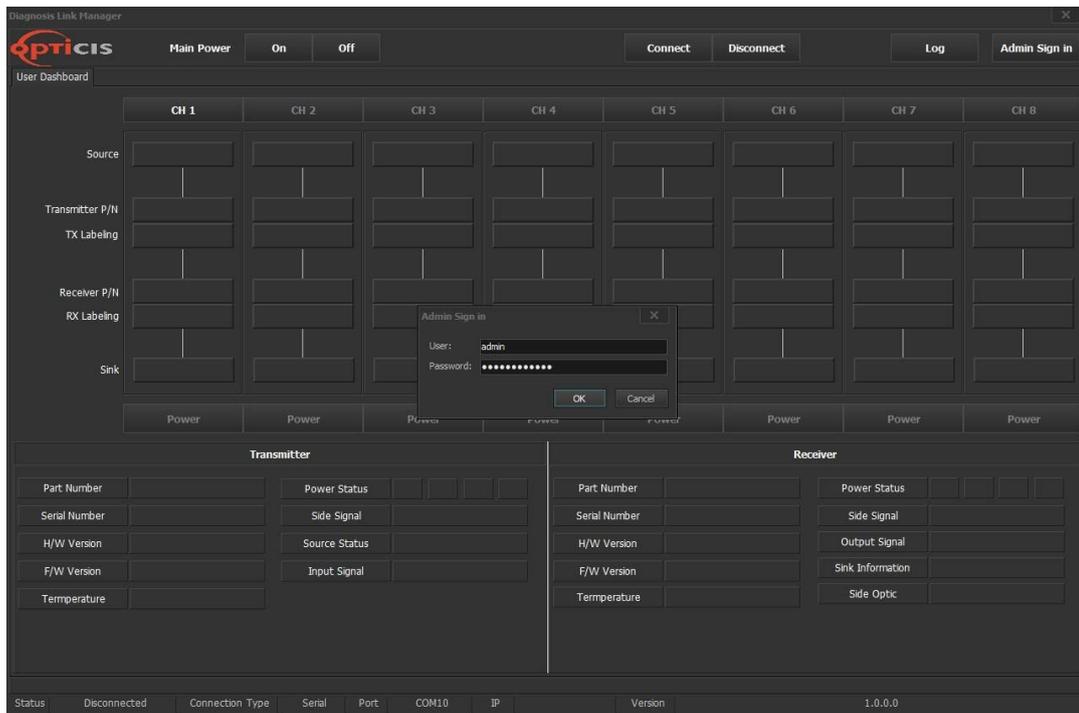
## Step 1. Running Diagnosis Link Manager Program

Run the Opticis Diagnosis Link Manager software.

## Step 2. Admin Sign in

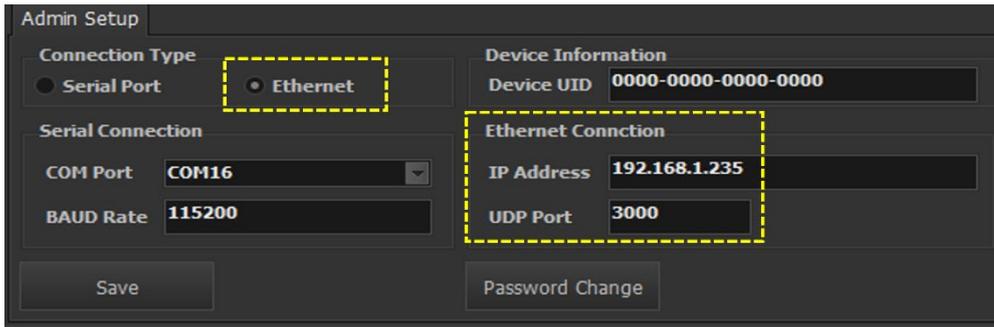
User	admin	Fixed user ID
Password	opticis1234!	Initial password

*\*Note: The initial password can be changed after Admin Sign-in by using the "Password Change" Option.*



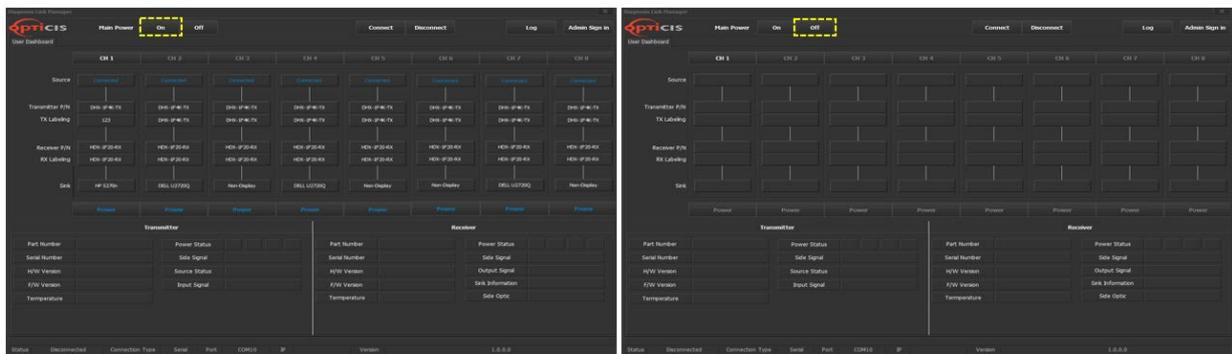
## Step 3. Modify Admin Setup

- Check the Ethernet box.
- Set Ethernet IP address: 192.168.1.235
- Set UDP port: 3000



## Managing Main Power Through GUI

BR-600's GUI allows users to easily monitor and control the main power supply. With intuitive controls, Users can remotely switch the main power on or off, ensuring seamless management of connected devices. Follow the steps below:



<GUI on main power-on>

<GUI on main power-off>

### Step 1. Set Up transmitters

Install up to 8 units of transmitters with diagnosis features  
 – HDX-1F20-TX, DPX-1F12-TX and/or DHX-1F4K-TX

### Step 2. Apply Power

Connect a DC jack or Phoenix to the BR-600 to supply power.

### Step 3. Run 'Diagnosis Link Manager'

Execute the 'Diagnosis Link Manager' and click on Power On/Off.

### Step 4. Check Power Indicator

When the power is supplied, the Power LED will turn on, and it turns off when the power is disconnected.

- **Power LED-on**  
 The Power LED for each of the 8 channels will illuminate, and the LED for the active Main Power (A or B) will also turn on, signaling that the BR-600 is receiving power and is operational.



<Main power-on>

*\*Note: if both Main Power A and B are supplying power, both LEDs will be lit.*

- **Power LED-off**  
When the main power is switched off, the LED indicator will not be lit, indicating that the BR-600 is no longer receiving power.



<Main power-off>

- **Status LED-on**  
The Status LED will blink when channels 1 to 8 are in the process of connecting to each extender. Once the connection is fully established, the LED will remain lit, indicating stable connection.



<Status-on>

- **Status LED-off**  
If the connection is lost, the Status LED will turn off, indicating that the extender is no longer connected.



<Status-off>

*\*Note: For more information, please refer to the User Manual of 'Diagnosis Link Manager'.*



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