

# QUICK START GUIDE

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EMS2000SE, EMS2000SE-T, EMS2000SE-R

# EMERALD SE

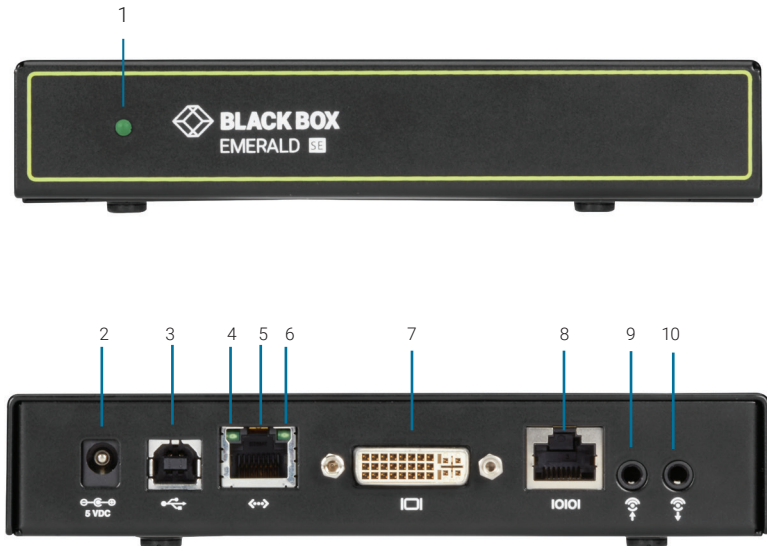
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## STEP 1A - Transmitter Diagrams

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## STEP 1B - Transmitter Components

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TABLE 1. EMS2000SE-T COMPONENTS

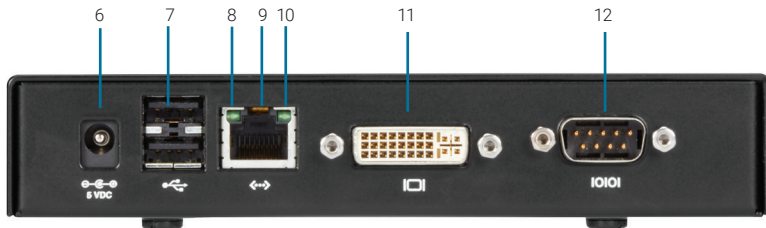
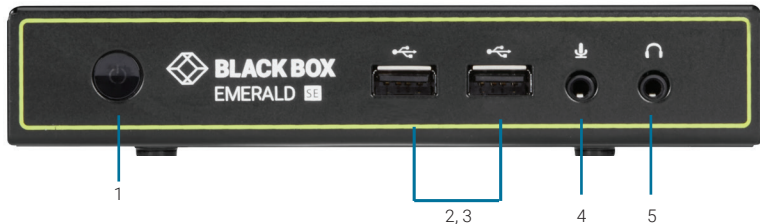
NUMBER IN DIAGRAM AT LEFT	DESCRIPTION	DESCRIPTION
1	Power LED button	Deactivated, not used
2	5 VDC Power In connector	Connect to supplied power adapter
3	USB Type B connector	Connect to PC/workstation USB connector
4	Speed LED	Indicates 10/100/1000 Mbps
5	RJ-45 port	Connect to network
6	Activity LED	Indicates activity on the link
7	DVI Video connector	Connect to PC Video
8	RJ-45 port	Connect to serial console
9	Audio Line In	Connect to speakers
10	Audio Line Out	Connect to speakers

NOTE: Unit automatically powers on when plugged in; must be powered off at the power source.



## STEP 2A - Receiver Diagrams

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## STEP 2B - Receiver Components

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TABLE 2. EMS2000SE-R COMPONENTS

NUMBER IN DIAGRAM AT LEFT	DESCRIPTION	DESCRIPTION
1	On/Off button	Deactivated, not used
2, 3	(2) USB Type A connectors	Connect to USB peripherals
4	Microphone	Connect to microphone
5	Speakers	Connect to speakers
6	5 VDC Power In connector	Connect to supplied power adapter
7	(2) USB Type A connectors	Connect to USB peripherals
8	Speed LED	Indicates 10/100/1000 Mbps
9	RJ-45 port	Connect to network
10	Activity LED	Indicates activity on the link
11	DVI Video connector	Connect to monitor
12	DB9 connector	Connect to serial console

NOTE: Unit automatically powers on when plugged in; must be powered off at the power source.



## STEP 3 - Connect Power

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### CONNECT POWER TO TRANSMITTER

1. Locate the power supply adapter and the AC line cord.
2. Plug the DC connector of the power supply into the matching socket on the rear of the transmitter.
3. Attach the AC line cord to the power supply adapter.

### CONNECT POWER TO RECEIVER

1. Locate the power supply adapter and the AC line cord.
2. Plug the DC connector of the power supply into the matching socket on the rear of the receiver.
3. Attach the AC line cord to the power supply adapter.

## STEP 4 - Connect the Peripherals

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### CONNECT THE TRANSMITTER

1. Attach the Emerald SE Transmitter to the target PC/workstation using DVI and USB Type B cables.
2. Connect to the LAN using standard CAT5 UTP cables between the RJ-45 connector and the local network connection.

NOTE: The Emerald SE works best with a 1 Gigabit connection.

### CONNECT THE RECEIVER

1. Attach the monitor, keyboard, mouse, USB and audio devices to the Emerald SE Receiver.
2. Connect to the LAN using standard CAT5 UTP cables between the RJ-45 connector and the local network connection.

NOTE: The Emerald SE works best with a 1 Gigabit connection.



# STEP 5 - Starting Up and Default Settings

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## STARTING UP

1. Once everything is connected, press the Power button on the front of the Emerald SE Receiver.

2. The Graphical User Interface (GUI) will appear on the screen.

3. Enter the default administrator user name and password.

**User name:** admin

**Password:** blank (just press the Enter key)

4. The default network setting for the Emerald SE Receiver uses a preconfigured static IP address.

5. If you require the unit to be set to use DHCP, select the Control tab on the GUI and then choose the Network option. Select the DHCP option and click Apply.

## DEFAULT SETTINGS

**Default Settings:**

**Transmitter IP Address:** 192.168.1.22

**Receiver IP Address:** 192.168.1.21

**Type:** Static

**Subnet Mask:** 255.255.255.0

**Default Gateway:** 0.0.0.0

**Admin username:** admin

**Admin password:** no password, it is blank by default

**Ports Used:** 3389

**IMPORTANT:** Do not lose the admin password once configured; there is no way to reset or retrieve it. The Emerald SE receiver has the option to create a second administrator account as a secondary entrance.



## STEP 6 - Point-to-Point Installation

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### POINT-TO-POINT INSTALLATION

In a point-to-point configuration, no administrator setup of the Emerald SE Transmitter or the Emerald SE receiver is required. This enables you to install the system quickly, directly out of the box. In the point-to-point configuration, you can install only one transmitter and receiver pair on a subnet and both must be on the same subnet unless a router is present in the network to span subnets. To span across different subnets, you will need to have admin rights to both routers on either side of the installation and setup port forwarding for port "3389" for Remote Desktop.

If further configuration is required to change the default IP addresses, you can access the transmitter's network settings through the remote unit:

1. Simply connect the transmitter to the receiver using a CATx cable (but do not power up the transmitter yet), then connect a keyboard, monitor, and mouse to the remote unit (remote unit is on at this time).
2. Login as "admin" and go to (Control)>> (Transmitter)>> (Discover) and follow the on-screen steps.
3. It will advise you to connect both devices together and then power up the transmitter and press the "Next" button.
4. It will take several minutes to discover the transmitter, but once found, you can modify the network parameters.





# STEP 7 - Matrix Installation and Getting Started

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## MATRIX INSTALLATION

In a matrix installation, every Emerald SE transmitter and receiver requires its own IP address. By default, the DHCP setting is set to static, so the addresses will need to be configured manually:

1. Always configure the transmitter first by connecting the transmitter to the receiver using a CATx cable (but do not power up the transmitter yet), then connect a keyboard, monitor, and mouse to the remote unit (remote unit is on at this time).
2. Login as "admin" on the remote unit and go to (Control)>> (Transmitter)>> (Discover) and follow the on-screen steps.
3. It will advise you to connect both devices together, and then power up the transmitter and press the "Next" button.
4. It will take several minutes to discover the transmitter, but once found, you can modify the network parameters.

5. Once the transmitter is configured, you can now configure the receiver.

6. If the units are on different subnets, then routers will need to be used to properly direct traffic.

## GETTING STARTED

Once the IP addresses have been configured, each receiver will need to be configured for users, user passwords, user access rights and default video resolutions. You can access these settings from the receiver's OSD (reboot the receiver and login as admin) and begin configuring these parameters.

NOTE: Each receiver can support a maximum of 32 users and a maximum of 32 targets (virtualized or transmitter).



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