Installation and Setup

The SideBox enclosure can be used with both the Acuity™ and Carbonite switchers. The SideBoxNet enclosure is only supported by the Acuity™ switcher running software version 6.0 or higher.

The SideBoxNet enclosure comes pre-assembled with a number of modules and includes the SideShotNet, SideSlideNet, and SideStick. All of these product are installed and connected to the switcher in the same way, and only differ in setting up the actual module itself.

Note: Refer to your switcher documentation for information on setting up each module.

Installation

SideBox and SideBoxNet can be installed onto a desk, into the desk using the supplied mounting brackets, or onto a standard VESA mount.

Desk Mounting

The enclosure can be mounted into a desk in either a flat or sloped position. How you want the enclosure to be positioned determines where the mount brackets are installed.

![Figure 1: In-Desk Mounting Options](image)

If you are sitting the enclosure onto a desk you do not need to install the mounting brackets.

Desk Cutout

The desk cutout size for the enclosure is the same if you are mounting it in the flat or sloped position.

To Install the In-Desk Mounting Brackets

1. Select the mounting option you want to use for how the enclosure is installed.
2. Remove the mounting screws from the side of the enclosure for the mounting option you have chosen.
3. Install the mounting bracket onto the side of the enclosure using the screws you just removed.
4. Repeat this procedure for the other side of the enclosure.

VESAs Mounting

The enclosure can be mounted onto a VESA FDMI MIS-D 75 or 50, C Mounting Arm.
Cabling

Depending on whether you have a SideBox or SideBoxNet, the cabling of your enclosure will be different.

SideBox Cabling

Each SideBox enclosure has connectors for primary (PS1), and secondary (PS2) power supply, and two RJ-45 communications ports (PREV and NEXT).

SideBoxNet Cabling

The SideBoxNet connects to the switcher over a standard ethernet connection.

To Cable SideBox with Acuity™

**CAUTION:** Always connect the 12V DC Power Supply to the SideBox before connecting the AC mains power. Connecting the power supply to the AC mains power before connecting to the SideBox could damage the SideBox.

1. Connect and secure one end of the Control Cable to the External Link port 2, 3, or 4 or another external module already connected to the control panel.
2. Connect and secure the other end of the Control Cable to the PREV port on the SideBox.
3. Connect and secure one 12V DC Power Supply to the PS1 connector on the back of the SideBox.

To Cable SideBox with Carbonite

**CAUTION:** Always connect the 12V DC Power Supply to the SideBox before connecting the AC mains power. Connecting the power supply to the AC mains power before connecting to the SideBox could damage the SideBox.

Carbonite and Carbonite Black can only support a single SideBox at a time.

1. Connect and secure one end of the Control Cable to the port on the back of the control panel, or CarboNET.
   - Carbonite Black — PMC Link port
   - CarboNET — PMC Link port
   - Carbonite — EXT LINK port
   **Note:** Only 1 PMC Link port on the Carbonite Black or CarboNET can be used at a time.
2. Connect and secure the other end of the Control Cable to the PREV port on the SideBox.
3. Connect and secure one 12V DC Power Supply to the PS1 connector on the back of the SideBox.

To Cable SideBoxNet with Acuity™

**CAUTION:** Always connect the 12V DC Power Supply to the SideBoxNet before connecting the AC mains power. Connecting the power supply to the AC mains power before connecting to the SideBoxNet could damage the SideBoxNet.

**Note:** The ETHERNET 2 port is not available at this time. You must use ETHERNET 1 to connect to the switcher.

**Note:** The ethernet cable to the switcher must be CAT5e, or higher, Shielded Twisted Pair to a maximum of 200m.
**SideBox Setup**

Acuity™ must be set up to communicate with the SideBox. Carbonite and Carbonite Black automatically recognise and will communicate with the SideBox.

**Setting Up SideBox with Acuity™**

To set up communications between the Acuity™ control panel and SideBox, you must do the following:

- Set the External Link port (L2, L3, L4) that you connected to SideBox to External Module (Ext Module).
- Assign the SideBox to a panel row.

Refer to your Acuity™ Setup Manual for information on assigning the SideBox to an external link port, and assigning the SideBox to a panel row.

**LCD Contrast**

If the module installed in the SideBox has an LCD display, such as mnemonics, the contrast of this display must be adjusted manually using a Phillips screwdriver.

![Contrast Adjustment](image)

**SideBoxNet Setup**

The SideBoxNet connects to the switcher over ethernet. DashBoard is used to configure the network settings on the SideBoxNet as well as monitor status and perform upgrades.

**SideBoxNet Network Settings**

By default, the SideBoxNet uses DHCP to automatically obtain an IP address. You can manually set a static IP address, network mask, and default gateway if your network does not have a DHCP server or if you need to set a static IP.

The enclosure is automatically discovered in DashBoard and appears as Panel followed by the MAC address of that particular SideBoxNet.

**To Configure the Network Setting**

1. Double-click on the Panel node and click on the Ethernet tab.

   **Note:** The Current DIP Switch field shows the state of the DIP1 and DIP2 switches on SideBoxNet. Some settings do not allow you to change the IP settings from DashBoard.

2. Click Static or DHCP to select how you want to set the ethernet settings.

3. For a static IP address, enter the IP address (IP Address), subnet mask (Subnet Mask), and gateway (Default Gateway) you want to use.

4. In the Carbonite IP Address field, enter the IP address of the frame you are connecting to.

5. Click Apply Changes.

**To Assign a Custom Name**

The name appears in the tree view in DashBoard and allows you to easily identify your particular device.

1. Double-click on the Panel node and click on the Panel Name, Permissions tab.

2. In the Panel Name field, enter the new name.

**Additional Settings**

Additional settings allows you to set alarms for power supply failures, permissions to change settings in DashBoard, or to restore default settings.

**To Edit Permissions**

You can lock the settings to prevent other users from changing them.

1. Double-click on the Panel node and click on the Panel Name, Permissions tab.

2. On the Edit Permission list, click Unlocked to allow all the parameters to be set, or Locked to lock all parameters except this one.
To Set an Alarm
The alarm notifies users in DashBoard that a power supply is failing.

1. Double-click on the Panel node and click on the Alarm Enables tab.
2. Select the alarms that you want to enable.
   - **PSU1 Voltage Out of Range** — alarm if power supply 1 is out of the safe acceptable voltage range
   - **PSU2 Voltage Out of Range** — alarm if power supply 2 is out of the safe acceptable voltage range

To Restore Default Settings
All settings, except for the network settings, can be defaulted back to the factory settings.

1. Double-click on the Panel node and click on the Load/Save tab.
2. Click Load Factory Default.

   Note: All settings, except the network settings, are defaulted.

DIP Switches
The up position for the DIP switch is OFF.

<table>
<thead>
<tr>
<th>DIP1</th>
<th>DIP2</th>
<th>DIP3</th>
<th>DIP4</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>User IP Settings</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>Force DHCP IP</td>
</tr>
<tr>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>Force Static IP (192.168.2.10)</td>
</tr>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>Force Static IP (10.1.2.10)</td>
</tr>
<tr>
<td>OFF</td>
<td></td>
<td>OFF</td>
<td></td>
<td>You must enter your DashBoard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>password to save changes to this</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>module in DashBoard.</td>
</tr>
<tr>
<td>ON</td>
<td></td>
<td></td>
<td>OFF</td>
<td>No password is required.</td>
</tr>
<tr>
<td></td>
<td>OFF</td>
<td></td>
<td></td>
<td>Default Boot</td>
</tr>
<tr>
<td></td>
<td>ON</td>
<td></td>
<td></td>
<td>Boot from memory card</td>
</tr>
</tbody>
</table>

Restart and Status LED
Press and hold the RESET button to restart the unit. The Status LED changes colors to indicate the status.

- **Red** — Booting
- **Blinking** — Upgrading
- **Green** — Normal

Setting Up Communications with Acuity™
To use SideBoxNet with Acuity™ you must set up communications between the two. Once communications are set up you can configure the particular module that you have installed in the SideBoxNet. Refer to the documentation that came with your switcher for information on mapping a module to a control panel and setting up that module.

To Set Up Communications with Acuity™

Note: You cannot have more than one SideShotNet, SideSlideNet, and SideStick on the same external row. For example, you cannot have two SideStick modules on the same row, but you can have a SideShotNet and a SideStick on the same row.

1. Press HOME > Setup > Installation > Com Setup > Type.
2. Press Type and use the Com Port knob to select the Remote or PanelNet port that you want to use to connect to the SideBoxNet.
3. Use the Device knob to select OGP.
4. Press Select Device and use the Device knob to select ePCH.
5. Press Com Type and use the Type knob to select Network TCP.
6. Press Com Settings and use the Client/Server knob to select Client and enter the IP address of the device in the Remote IP Address field and 5253 in the Remote Port field.
7. Press Extra Options.

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit ID</td>
<td>Each SideBoxNet must be assigned to a different number (1-15).</td>
</tr>
</tbody>
</table>
Row
Select the panel row that you want to assign the SideBoxNet to. The panel row corresponds to the SideStick or SideBoxNet in that the module assigned to row 1 is numbered 1 in the menus (SideStick1 for example). You can only assign the SideStick to an internal panel row.

First Fader
Assigns the number, or position, of the first audio slider on the SideSlideNet module. Each audio module has 8 sliders, so the first slider on module 1 is 1, the first slider on module 2 is 9, and so on.

Important: Contact Ross Video Technical Support before attempting to replace a module with a different type of module. Some modules are not compatible.

Replacing a SideBox Module

To Remove a Module

1. Disconnect all power and communications cables connected to SideBox.
2. Remove the 14 screws from the front, back, and sides of the SideBox.
3. Slowly lift the SideBox top out of the SideBox base until you can access the internal cables.
4. Disconnect both of the module control link cables and the power cable from the module.
5. Remove the 4 retaining nuts that secure the module onto the module mounting plate.

8. Press HOME > Confirm.

Figure 8: Removing Screws

Figure 9: Disconnecting Internal Cables

Figure 10: Removing Module