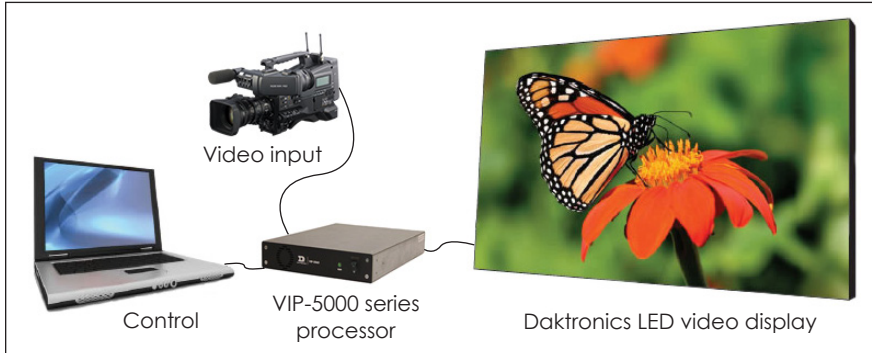


The VIP-5000 series processor is the interface that drives video to a digital display and meets operational needs such as dimming, displaying test patterns, and adjusting gamma and color controls.

VIP-5060 accepts standard DVI inputs of 800x600 and 1280x720. VIP-5160 accepts standard DVI inputs of 800x600 and 1280x720 but has an additional input resolution allowing 1440x900 DVI input with reduced blanking. This quick guide explains basic VIP-5000 series connections and setup as shown in **Figure 1**.



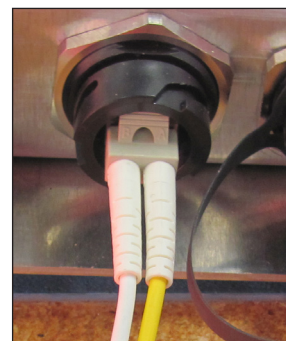
**Figure 1:** VIP-5000 Series Connections

## Hardware Setup

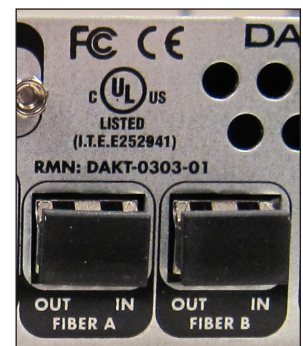
### Connecting to the LED Video Display

1. Locate fiber-optic Port A and Port B on the processor.
2. Insert duplex LC fiber-optic cables into their corresponding ports. The cables will click into place when seated properly. Refer to **Figure 2** and **Figure 3**.

**Note:** Remove fiber dust covers from cables and connectors prior to inserting into ports.



**Figure 2:** Display-Mount Fiber-Optic Port



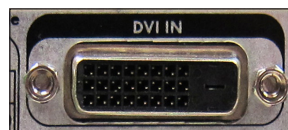
**Figure 3:** Rack-Mount Fiber-Optic Ports

### Connecting to the DVI Video Source

1. Insert the male plug into the female jack.
2. Turn the screws on the male plug clockwise to lock. Refer to **Figure 4** and **Figure 5**.



**Figure 4:** Display-Mount DVI Video Input Jack



**Figure 5:** Rack-Mount DVI Video Input Jack

**Note:** The processor supports a refresh rate of 60Hz and has a playback window at 0,0 (upper-left) of DVI input. The playback window matches the display size in pixels.

## Connecting to the Network

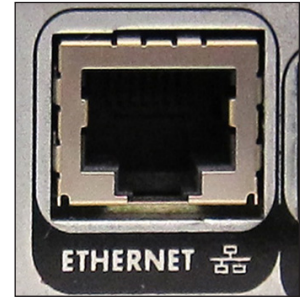
1. Connect one end of the RJ45 network cable to the network port. Refer to **Figure 6** and **Figure 7**.

**Note:** For a display-mount system, rotate the connector  $\frac{1}{4}$  turn clockwise to lock.

2. Connect the other end of the cable to the computer or network.



**Figure 6:** Display-Mount Network Port



**Figure 7:** Rack-Mount Network Port

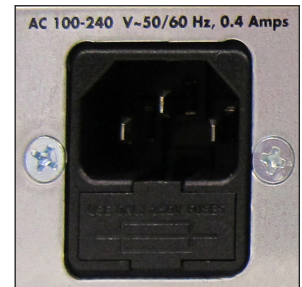
## Connecting Power

### Display-Mount Systems (12VDC)

1. Connect the breakout cable to the power/sensor port. Refer to **Figure 8**.
2. Rotate the connector  $\frac{1}{4}$  turn clockwise to lock.
3. Connect the breakout cable to the power cord.
4. Terminate the cord at the display's power panel.



**Figure 8:** Display-Mount Power/Sensor Port



**Figure 9:** Rack-Mount Power Jack

### Rack-Mount Systems (120/240VAC)

1. Connect the power cord to the power jack. Refer to **Figure 9**.
2. Plug the other end of the cord into an outlet.

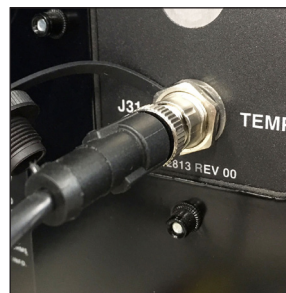
## Connecting Temperature/Light Sensors

### Display-Mount Systems

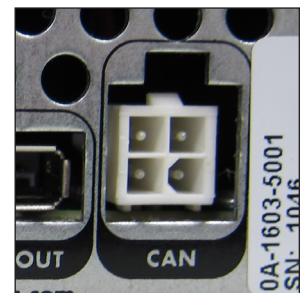
1. Connect the sensor cable's M12 connector to the temperature/light port. Refer to **Figure 10**.
2. Turn the connector ring clockwise until tightened.

### Rack-Mount Systems

Connect the sensor cable to the CAN port. Refer to **Figure 11**.



**Figure 10:** Display-Mount Sensor Port



**Figure 11:** Rack-Mount Sensor Port

## Computer-to-Processor Setup

### Connecting to the Processor

1. Download the DisplayFind application from either the control software CD or the internet.
  - a. Navigate to **dakfiles.daktronics.com**.
  - b. Click **venus1500>Utils>DisplayFind>DisplayFind.exe**.
  - c. Click **Run** to download the program or **Save** to save the file for later use.

2. Launch the DisplayFind application by double-clicking the **DisplayFind** icon. Refer to **Figure 12**.
3. Connect to the display using the DisplayFind utility.
  - a. Select the appropriate **Network Adapter**.
  - b. Click **Find Displays** to detect displays. Refer to **Figure 13**.

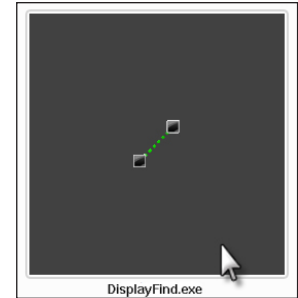


Figure 12: DisplayFind Icon

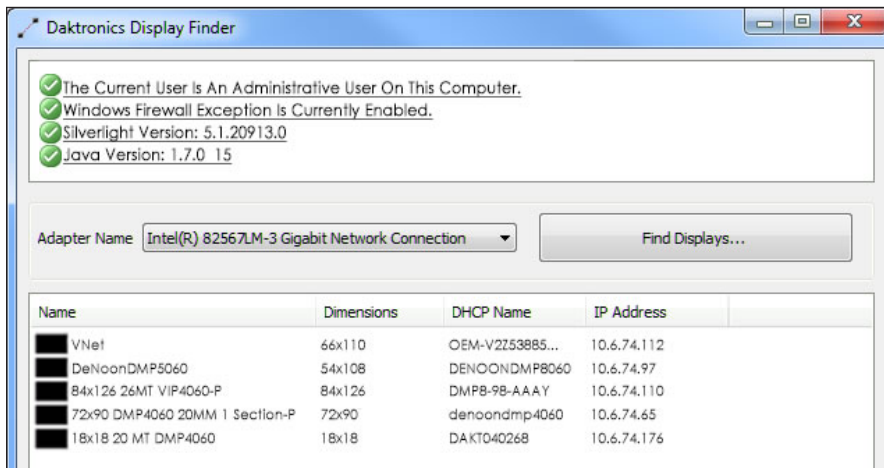


Figure 13: Daktronics DisplayFind Application

- c. Click the desired display to launch the configuration utility within a web browser.

**Note:** If multiple displays are found, use the IP address or name to confirm the identity of the correct display.

## Logging in to the Processor

1. Navigate to **http://<IPaddress>:<Port>**. The port is typically **85**.
2. Type **Dak** into the **User name** text box. Refer to **Figure 14**.
3. Type **DakPassword!** into the **Password** text box.
4. Click **OK**.

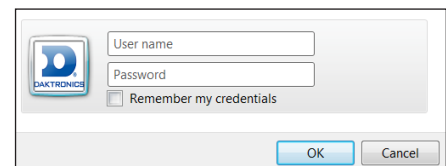


Figure 14: VIP-5000 Series Login

These are the factory-configured login credentials. *Daktronics strongly recommends changing the password after initial configuration.*

After setting a new password, this new password must be entered into the **Password** text box during login.








**Note:** Do not lose the password; losing it may require a service call.

Newer display-mount VIP-5160s have an internal reset switch that can be used to reset the password and/or configuration. Remove the switch cover to access the reset switch and press down for 5-15 seconds. The user name and password will revert to the factory-configured login credentials.

**Note:** Use caution when using an internal reset switch. Pressing the switch for longer than 15 seconds can reset the configuration.

## Processor Menu Overview

After initial login, the **Dashboard** window opens showing status tiles for various aspects of the device. Click the **Show Menu** icon  in the upper-left corner to expand the main menu. Refer to the table below. For more information, refer to the **VIP-5000 Series Operation Manual (DD2773153)**.

Menu Item	Description
 <b>Dashboard</b>	Shows status tiles for various aspects of the processor; most tiles trigger operational windows but some tiles only provide information
 <b>Configuration</b>	Lists all available configuration settings and tools including setting the input, output, brightness levels, local time, and location
 <b>Monitor</b>	Opens a window showing a video feed of the display content
 <b>Stored Content</b>	Shows existing stored content files and allows images to be added or removed
 <b>Troubleshooting</b>	Lists troubleshooting options including testing, resetting power, and resetting the processor
 <b>Calibration</b>	Lists calibration tools used to adjust individual modules to blend with surrounding modules
 <b>System Backup</b>	Lists system backup options including creating a system backup and restoring a system backup

## System Configuration

### Configuring Input

Select the processor’s type of input including selecting a DVI video source, choosing a built-in test pattern, loading static images, or blanking the display. Refer to **Figure 15**. To configure the processor for a DVI video source, follow the steps below:

1. Select **Configuration** from the main menu or click the **Input** tile on the dashboard.
2. Click **Input**.
3. Choose **DVI** from the **Display Mode** drop-down list.
4. Change the **Color Adjustment** settings of the DVI video signal with the **Brightness, Contrast, Saturation, and Hue** slider bars if desired.
5. Set the **Source Dimensions** as either **Automatic** or **Manual** to define what portion of the incoming video signal is shown on the display. This setting is normally determined at the factory.
  - **Automatic** - the controller positions the content and the dimensions will match the configured display size.
  - **Manual** - the operator manually defines the visible area.

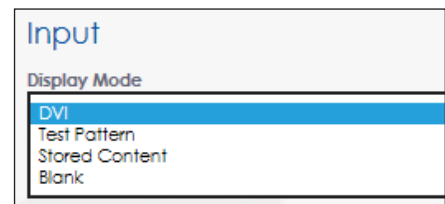


Figure 15: Input Display Mode

6. Set the **Target Dimensions** as either **Automatic** or **Manual** to position the incoming video signal on the display. *This feature should not be used unless instructed to do so by Daktronics technicians.*
  - **Automatic** - the controller positions the content and the dimensions will match the configured display size.
  - **Manual** - the operator manually defines the content placement and positioning.
7. Click **Save**.

## Configuring Output

Set the display output as either **Active** or **Inactive**. If the processor system is the primary system, the **Output State** should be set as **Active**. If the processor system is the backup system, the **Output State** should be set as **Inactive**. Refer to **Figure 16**. To configure the output, follow the steps below:

1. Select **Configuration** from the main menu.
2. Click **Output**.
3. Choose the **Output State** as **Active** or **Inactive**. If **Inactive** is selected, proceed to Step 8.
4. Select the **Boot Sequence** from the drop-down list to choose what is shown during display startup.
  - **Full** - shows full display information (description, dimensions, time zone etc.)
  - **Compact** - shows product and version information
  - **None** - shows no information, playback starts immediately
5. Adjust the **Green Mode** percentage to set a threshold for dimming the display content.
6. Adjust the **Gamma** number to adjust the middle ranges of color.
7. Choose the **Color Space** setting from the drop-down list.
8. Click **Save**.

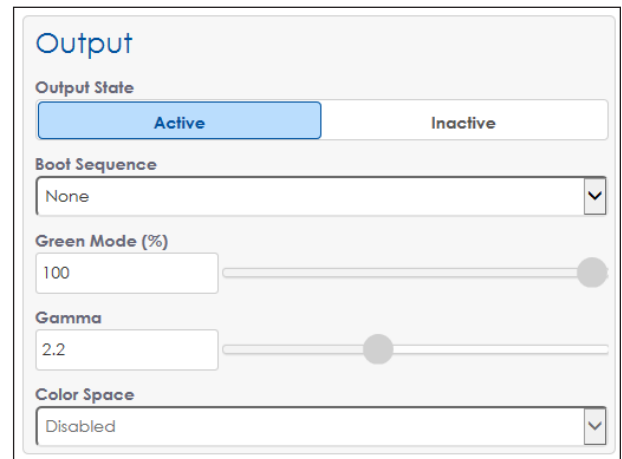


Figure 16: Configuring Output

## Configuring Brightness

To adjust display brightness, refer to **Figure 17** and follow the steps below:

1. Select **Configuration** from the main menu.
2. Click **Brightness**.
3. Select the **Mode** from the drop-down list.
  - **Automatic** – brightness values adjust according to data received from a light sensor.
  - **Manual** – brightness values are set at a constant level using a slider bar.
  - **Remote** – dimming values are determined by a host processor in a multi-VIP host-client system.

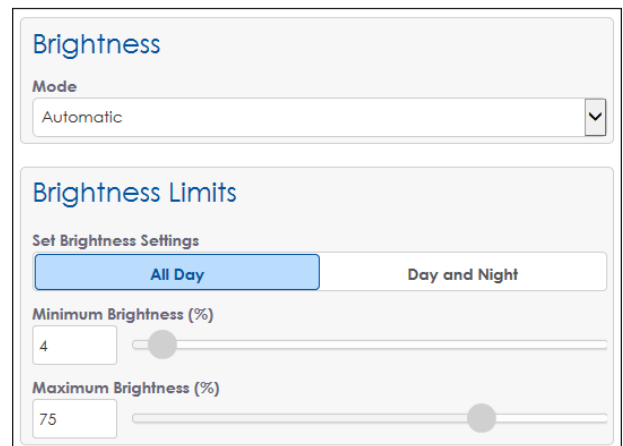



Figure 17: Configuring Brightness

4. Choose either **All Day** or **Day and Night** under **Set Brightness Settings**.

- **All Day** - sets display minimum and maximum brightness for a 24-hour period.
- **Day and Night** - sets display minimum and maximum brightness based on the time of day.

## Contact Info and Where to Get Help

Click **Help** under the **User** icon  in the upper-right corner of the screen to access the **VIP-5000 Series Video Image Processor Operation Manual (DD2773152)**.

Click **About** under the **User** icon  in the upper-right corner of the screen to access the Daktronics website. Refer to **Figure 18**.

If further assistance is required, Daktronics Customer Service is available 24/7 via phone or online.

### Telephone

- Domestic (U.S. and Canada): 1-800-325-8766
- International: +1-605-697-4000

### Online

- [www.daktronics.com/support](http://www.daktronics.com/support)

**DAKTRONICS VIP-5160**

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**For support information**  
Call: 1-800-DAKTRONICS

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**VIP Version Information**

<b>Web</b>	2.3.241
<b>User Agent</b>	Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/56.0.2924.87 Safari/537.36

Figure 18: Contact Information