This guide explains the front-end equipment setup of a DVNMC message display controlled by the Daktronics Show Control System. For more information about Show Control System installation, registration, or operation, refer to the documentation provided with the software.

Refer to Drawing B-1124731 and Drawing C-1151076 for detailed wiring schematics of typical setups. Site-specific system riser diagrams may also be available, and these will take precedence over any general instructions found in this guide. Contact the Daktronics Standard Order Project Manager (SOPM) or Standard Order Project Coordinator (SOPC) to ask if any site-specific drawings exist for the project.

Equipment Setup

1. Unpack all items, verify everything from the project Bill of Materials (BOM) is included, and arrange in a suitable location.

2. Set up the wall-mount fiber optic patch panel within 10' of the rack location. Refer to manufacturer’s mounting instructions.

3. Connect the 10’ fiber cable (part #W-1864) between the wall-mount fiber patch panel and the FIBER A port on the rear of the Video Image Processor (VIP) unit.

4. If there is an audio system, connect an XLR cable between the LTIBLOX (ACV #1) and an available input on the audio mixer. This is a balanced mono audio output from the Digital Media Player (DMP) unit.

5. Place the Show Control computer (supplied by customer) at the operator location, and make the following connections:
   a. Connect the power cord and plug into a standard wall outlet.
   b. Connect the supplied 14’ Cat5 network cable between the computer network jack and the router located in the rack.

6. Plug power cords for all devices (rack, Show Control computer, monitors, etc.) into standard wall outlets.

7. Connect 6-core fiber optic cable between the fiber patch panel in the control location and the DVNMC display. Refer to display documentation for more information on internal signal connection.

Standard Power-up Sequence

If these steps are not followed in order every time, components may appear to fail! Refer to DD2063163 for additional startup and shutdown procedures.

1. Power on the display.
2. Power on the VIP unit.
3. Power on the DMP unit.
4. Power on the Show Control computer.

Standard Power-down Sequence

1. Power off the display.
2. Power off the Show Control computer.
3. Power off the DMP unit.
4. Power off the VIP unit.

Note: Having an internet (WAN) connection into the router is recommended for remote troubleshooting by Daktronics technicians.
**IP Address of Show Control Computer**

1. Go to **Start > Control Panel** and click on **Network and Sharing Center**.
2. Under **Connect or disconnect**, click **Local Area Connection**.
3. In the **Local Area Connection Status** window, click **Properties**.

   ![Network and Sharing Center](image)

4. In the **Local Area Connection Properties** window, select **Internet Protocol Version 4 (TCP/IPv4)** and then click **Properties**.

   ![Internet Protocol Version 4 (TCP/IPv4) Properties](image)

5. In the **Internet Protocol Version 4 (TCP/IPv4) Properties** window, click **Use the following IP address**, and then set as follows:

   - **IP address**: "192.168.0.122"
   - **Subnet mask**: "255.255.255.0"
   - **Default gateway**: "192.168.0.1"

6. Click **OK** twice followed by **Close** to exit out of the open windows.
7. Restart the computer at this time if prompted to do so.

**Map Network Drive on Show Control Computer**

1. Press **[Ctrl] + [E]** to open “My Computer”.
2. Toward the top of the **Computer** window, click **Map network drive**.

   ![Map network drive](image)

3. In the **Map Network Drive** window, keep the drive letter as **Z**; and ensure **Reconnect at logon** is checked.

   ![Map Network Drive window](image)

4. Click **Browse**. There should be a “DVNMC-#” computer under the “Network”, where “#” equals a number from 01-05. **If unable to locate the computer, restart the full system.**
5. Select the “DVNMC-#” computer, followed by the “Content” folder, and then click **OK**.
6. Enter the following credentials: **Username**: "vnet" **Password**: "dakpassv"
7. Select **Remember my Credentials** and click **OK** followed by **Finish**.
Configure Display

1. Go to Start > All Programs > Daktronics > Utilities > VNet Service Configuration Utility.
2. In the Display Wizard window, enter the following sign data:
   - Name = sign size, typically “Pixels High x Pixels Wide”
   - Height = # of Rows
   - Width = # of Columns
   - Address = "192.168.0.225" – "192.168.0.229"
3. Click Add when finished.
4. "Display successfully added" will pop up. Click OK.

Customer Supplied Laptops

For customers using their own laptops, there are a couple additional setup steps that must be performed.

Compatibility View

1. Open Internet Explorer.
2. Go to Tools > Compatibility View Settings.
3. Ensure Display all websites in Compatibility View is checked.

Silverlight Installation

1. In Internet Explorer, navigate to www.microsoft.com/silverlight.
2. Click the DOWNLOAD NOW button, and follow the onscreen instructions to complete the installation.

For More Information

To learn more about the Daktronics Show Control System software, consult the Show Control System User Handbook:

- Press the Windows key [ ] and go to All Programs > Daktronics > Display Studio > Show Control System User Handbook.
- From within Display Studio, press the Display Studio Hub button and select Help.

For any other questions, comments, or concerns, please contact Daktronics Support Services:

United States & Canada
Toll Free: 1-800-DAKTRONICS (1-800-325-8766)

Outside the U.S. & Canada
+1-605-697-4000
UltraVNC Installation

The instructions below describe how to install and set up UltraVNC, a free application available online. This program is used to access the DMP computer via the Show Control computer for troubleshooting purposes.

2. In the main navigation bar at the top of the page, mouse over Downloads, and then click on UltraVNC.
3. Select the most up to date version available (at the top of the list).
4. Determine whether the version of Windows is 64 or 32 bit, then click the red Download button for the corresponding setup file.
5. Scroll to the bottom of the Downloads Summary page and select “I accept the above listed conditions” and then click the small gray Download button.

**Note:** Do not click on any other Download buttons as these are ads.

6. Save the file to a convenient location, such as the Desktop.
7. Locate the file, and double-click it to begin the Setup Wizard.
   a. Select a language, and click OK.
   b. Click Next on the Welcome window.
   c. Read the License Agreement, and select I accept the agreement before clicking Next.
   d. Click Next on the Information window.
   e. Click Next on the Select Destination Location window.
   f. On the Select Components window, make sure UltraVNC Viewer is checked, and then click Next.
   g. Click Next on the Select Start Menu Folder window.
   h. On the Select Additional Tasks window, ensure all check boxes are selected before clicking Next.
   i. Click Install.
   j. Click Next on the Information window, followed by Finish.
8. Right-click on the WinVNC Service (blue eye) icon in the Taskbar, and select Admin Properties.
9. Under Incoming Connections, change both Ports to “5970”.
10. Under Authentication, change the VNC Password and View-Only Password to “dakpassv”.

![UltraVNC Server Property Page](image)