

DVPHD - V-Panel Integration

1 Introduction

In addition to the DGE Digital Graphics Engine, Crestron® V-Panel displays are also compatible with the award winning DVPHD High Definition Digital Video Processors, enabling the display of up to eight simultaneous video windows along with high definition touchpanel graphics and annotation. The DVPHD supports high definition video and computer signals from a wide variety of digital and analog sources. Its DVI output connects to the V-12 or V15 via a DigitalMedia™ (DM) CAT transmitter or DM switcher, enabling cable runs up to 450 feet (137 meters).

The maximum number of high definition inputs/windows available on the V-Panel will depend on the DVPHD model used:

DVPHD-DUAL	Up to two video inputs
DVPHD-QUAD	Up to four video inputs
DVPHD-PRO	Up to eight video inputs

2 Requirements

The following hardware is required for DVPHD - V-Panel integration:

- Crestron control system
- DVPHD
- DM switcher or transmitter
- V-Panel display

NOTE: DVPHD - V-Panel integration requires the following minimum firmware versions:

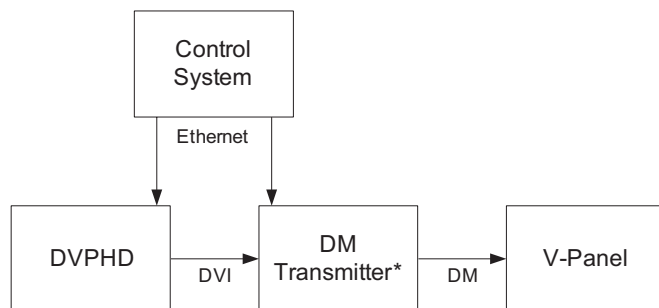
- DVPHD 3.001.0104 or later
- V-Panel 3.001.0062 or later

3 Setup

A. Hardware

The following diagram shows the hardware connections for DVPHD - V-Panel integration.

See additional diagrams in Section 4.



* Examples of DM transmitters are the DM-TX-100 or DM-MD8X8, among others. Contact Crestron for more information.

DVPHD, DM transmitter and control system connect to Ethernet network.

NOTE: DVPHD, DM device and control system must be on the same subnet.

NOTE: As the DVPHD has no audio, no audio will be supplied to the V-Panel.

B. Software

1. Download the appropriate DVPHD - V-Panel Integration SIMPL™ Windows demo program and VisionTools™ Pro-e (VT Pro-e) demo project for your V-Panel (V12 or V15) from the Crestron website (www.crestron.com/exampleprograms). Load the SIMPL Windows program into the control system and load the VT Pro-e project into the DVPHD. This will calibrate the touch from the V-Panel to the DVPHD.
2. Routing the touch data must be done via the control system. The demo project shows this in detail. Calibration must be done using the demo project (or via integrating the demo project into the user project).

NOTE: Calibration will be stored in the V-Panel. This is different from other touchpanels used with the DVPHD, where the calibration is stored in the DVPHD.

3. Use the Device Discovery Tool in Crestron Toolbox™ to find the IP addresses of the DVPHD and the V-Panel (and optionally, the DM transmitter).
 - a. In the Device Discovery Tool, select the DVPHD. The "System Info" window will be displayed. Click the arrow on the right side of the "IP Table" section. In the "IP Table Setup" window that opens, enter the IP address of the control system and the IP ID of the DVPHD, as specified in the SIMPL Windows program.
 - b. Do the same for the V-Panel, selecting your model (VPG-12 or VPG-15) from the Device Discovery tool, then clicking the arrow to the right side of the "IP Table" section and entering the IP address of the control system, along with the IP ID of the V-Panel, as specified in the SIMPL Windows program. (Optionally, you can follow similar steps for the DM transmitter as well.)
4. To verify connections, check the "IP Table Setup" window for each device. The listing under the *Status* field should say "online".

NOTE: The HID Extender programming from the demo program must be copied into the SIMPL Windows user program. (The calibration information is not necessary.)

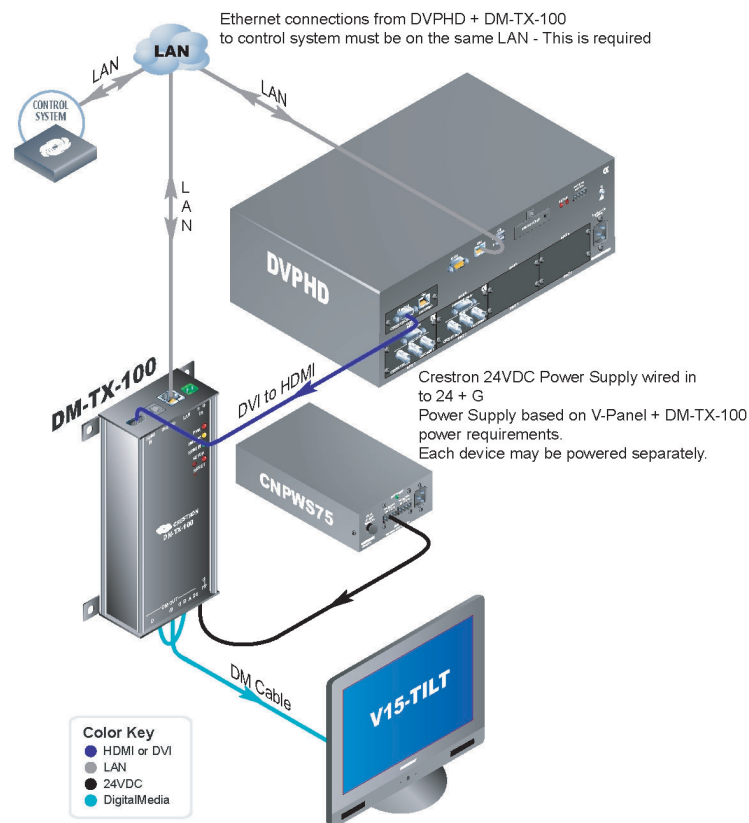
You can also create your own user project in VT Pro-e. This can be a separate project or it can be integrated into the demo project to keep the calibration process. If you create a custom project that is not integrated into the demo project, make sure to set the appropriate resolution for your V-Panel. In the "Project Properties" window of the project, use the *Page size* dropdown list to select the appropriate resolution (800 x 600 for the V12 and 1280 x 768 for the V15).

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4 Applications

The following diagrams illustrate DVPHD - V-Panel integration when a DM transmitter is used and when a DM switcher is used.

DVPHD - V-Panel Integration With a DM Transmitter



DVPHD - V-Panel Integration With a DM Switcher

