Modular Video Panel

MVP™

DRIVER

Quick Reference Guide

CHAUVET®

It's *Green Thinking*

About This Guide

The MVP™ Driver Quick Reference Guide (QRG) contains the product's connection, mounting, and installation information.

Disclaimer

- This Quick Reference Guide DOES NOT replace the product's User Manual, which you can download from the CHAUVET® website (www.chauvetlighting.com).
- You must read ALL the disclaimers and Safety Notes in this Guide, as well as those in the product's User Manual before installing, operating, and maintaining this product.
- This product contains no user-serviceable parts. Any reference to servicing in this guide will only apply to properly trained technicians certified by CHAUVET®. Do not open the housing or attempt any repairs.
- Please refer to all applicable local codes and regulations for the proper installation of the product.

Safety Notes

- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- For indoor use only.
- The maximum ambient temperature is 122° F (50° C). Do not operate this product at higher temperatures.
- Do not operate this product if you see damage on the housing or cables. In any of these cases, have the damaged parts replaced by an authorized technician.
- Do not open or modify the product.
- Make sure this product is connected to the proper voltage provided in this manual's specifications and/or the specification sticker on the product.
- Do not run this product near magnets, TV, or transformers.
- Never try to repair this product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact CHAUVET® Technical Support.
- Any damages caused by manual modifications are not subject to warranty. CHAUVET® will not accept liability for any resulting damages caused by unauthorized modifications or not observing the safety warnings and instructions in this manual.

What Is Included

- One MVP™ Driver
- One IEC Power Cable
- Four Rubber Feet
- One Warranty Card
- One Quick Reference Guide

Features

- Required to operate the CHAUVET® MVP™ Video Wall System
- Provides MVP™ Video Wall System complete signal backup or increased screen resolution
- Enables MVP™ panel addressing, and media playback and configuration
- Manually control video wall brightness from the front panel
- Rack mountable, constructed of aluminum alloy and steel
- Link up to four (4) MVP™ Drivers to support a large or complex MVP™ Video Wall System

Product Description

The MVP™ Driver is required to operate the CHAUVET® MVP™ Video Wall System. This Driver provides the interface between any DVI video source and all MVP™ video system components via the LED Studio software application.

Note: LED Studio is provided free with the MVP™ Driver.

The MVP™ Driver enables media playback, configuration, addressing, and remote power control from a rack-mounted MVP™ Media System. The Driver has two etherCON® signal outputs that connect to any type of MVP™ panel configuration.

The second signal output is pre-configured as a backup. The backup provides complete signal reproduction of the main output at 1280 X 1024 pixels.

The front panel enables manual control of the video wall brightness, providing three levels of brightness variations.

Product Overview

Not shown here are the rubber feet that can be attached to the MVP™ Driver to ensure proper rack mounting and space. These feet are included with the Driver in separate packaging.
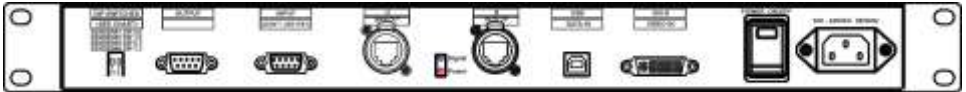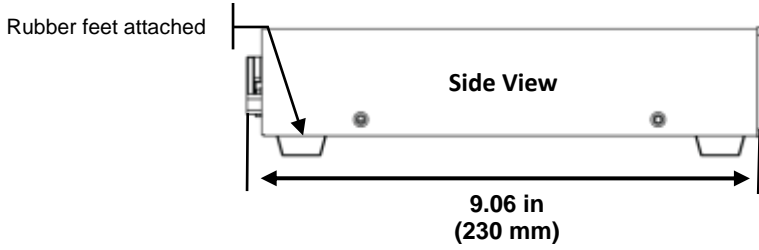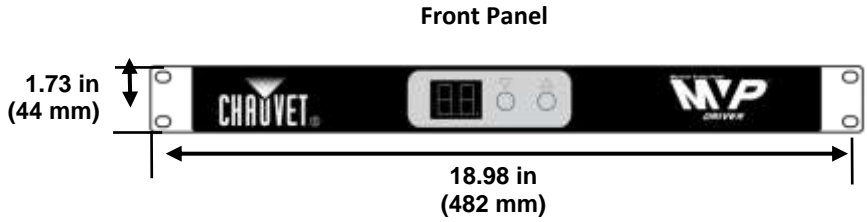
Front Panel

Brightness control

Back Panel
(refer to the *Back Panel Connections* section of this guide for detailed information)

Product Dimensions

Dimensions: 9.06 x 18.98 x 1.73 in (230 x 482 x 44 mm)

Front Panel

**1.73 in
(44 mm)**

**18.98 in
(482 mm)**

Rubber feet attached

Side View

**9.06 in
(230 mm)**

AC Power   This product has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz.
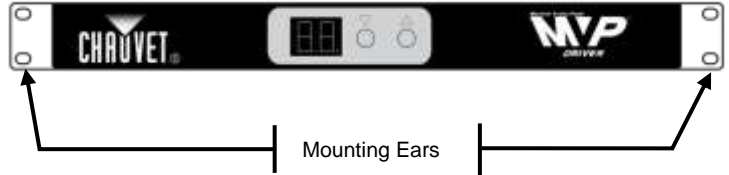
Video Input/Output

Video Source (Input):	DVI-D
Video Output:	etherCON® (2)
Display Refresh Rate:	2,000 Hz (flicker-free)
Video Refresh Rate:	60 Hz

Mounting   Before mounting this product, read the Safety Notes at the beginning of this guide.
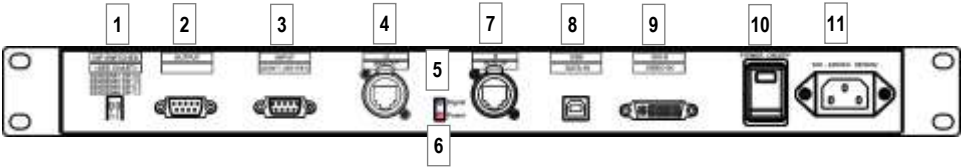
The MVP™ Driver can be rack-mounted (2U) using the mounting ears on either side of the front panel. You can easily rack mount the MVP™ Driver with the other MVP™ hardware components you are using, if applicable, (i.e., MVP™ 526P Signal Processor, PC) for easy setup and connection.
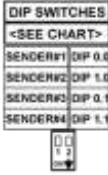
Product Mounting Diagram

Mounting Ears

Back Panel Connections

Disconnect power before connecting other equipment to the MVP™ Driver.

Number	Description
1	**DIP SWITCHES** addresser that can address up to 4 Drivers. Up = Off; Down = On. You will identify each Driver's Sender address within the LED Studio software application. **Note**: The MVP™ Driver is the Sender, and the panels are the Receiver(s).
2	**OUTPUT** can be used to connect to the next MVP™ Driver. Use a 9-pin D-Sub serial cable for connection (not included).
3	**INPUT (don't use if #1)** connection from the previous MVP™ Driver. Use a 9-pin D-Sub serial cable for connection (not included).
4	**U – MAIN OUT** is the primary etherCON® signal output that connects to the first MVP™ in a series.
5	**Signal** LED indicator flashes Green when the video connection signal is being received by the MVP™ Driver.
6	**Power** LED indicator displays Red when power is being received by the MVP™ Driver.
7	**D – BACKUP** is the secondary signal output and is pre-configured as a backup that provides complete signal reproduction at 1280 X 1024 pixels.
8	**USB – DATA IN** connects to the content software for addressing.
9	**DVI-D – VIDEO IN** connects to a video source. The DVI signal must be a direct digital signal in. You cannot use an analog-to-digital adaptor.
10	**Power On/Off**.
11	Plug 100~240 VAC, 50/60 Hz.

Calculating the Number of Panels per MVP™ Driver

The MVP™ Driver provides two signal output connections: U (Main) and D (Backup). The number of panels will differ based on whether you are using the U output as the Main and the D output as a backup, or alternately using both outputs separately to increase the screen resolution.

The default resolution for the MVP™ Video Wall is 1280 x 1024. The following provides the calculation and diagram for determining the number of panels that can be supported by one MVP™ Driver for each scenario.

The MVP™ 18 will be used for each scenario. That panel has a pixel ratio of 32 x 32.
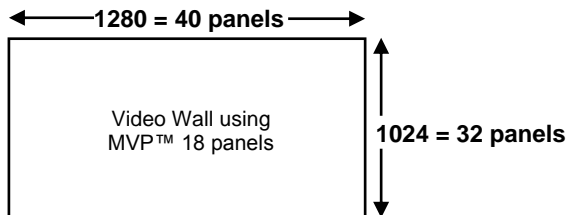
Refer to the *MVP™ Series (12, 18, 37.5) Getting Started User Manual* for pixel and other panel information.

Using U as Main and D as Backup

Using the pixel ratio of the panel(s), calculate the number of panels as follows.

MVP 18 (32 x 32): 1280/32 = 40 panels
1024/32 = 32 panels

The MVP™ Driver can support a video wall that is 32 x 16 panels, or 1,280 panels in total. Refer to the following example:

◄——— 1280 = 40 panels ———►

Video Wall using MVP™ 18 panels

1024 = 32 panels

Backup Connection

The MVP™ Driver provides two signal output connections: U (Main) and D (Backup). If the Main connection is broken, the D will automatically kick in if a Backup connection has been used.

Connect the MVP™ Signal Distributor between the panels and Main output connection.

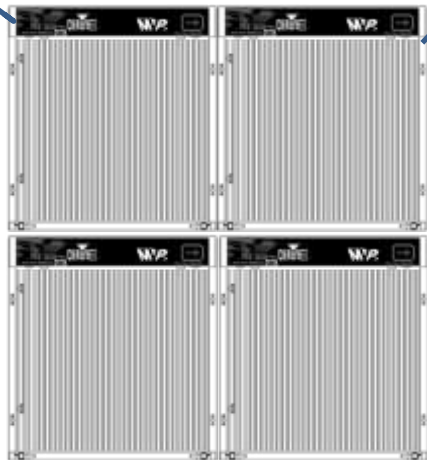**Note: The Autolink function in the addressing software must be disabled for the Backup to operate properly.**

MVP™ Driver Back Panel

Video Wall System-to-Backup connection

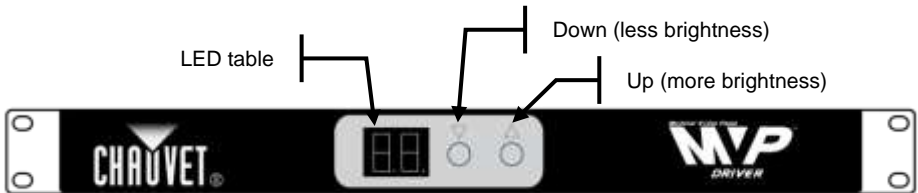**Main-to-Video Wall System connection**

MVP™ Video Wall System

Manually Adjusting Brightness

The front panel enables you to adjust the brightness of your video panels. Initially, brightness is defined in LED Studio. The brightness default value range is 1–16. You can change the brightness range in LED Studio, and manually adjust.

Use the Up and Down buttons on the front panel to manually override the brightness setting defined in LED Studio. The brightness value will display on the LED table.

Refer to the *LED Studio User Manual* for more information and instructions.

Down (less brightness)

LED table

Up (more brightness)

The range of brightness variations that can be defined are:

Range	Description
1–16	Provides 16 brightness variations
1–32	Provides 32 brightness variations
1–64	Provides 64 brightness variations

Powering Up the MVP™ Driver

This product supports AC from 100 to 240 VAC, 50-60 Hz. Once plugged in, push the Power Switch on the back panel to **ON**.

Note: Make sure the power is turned off when connecting equipment to the MVP™ Driver.

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