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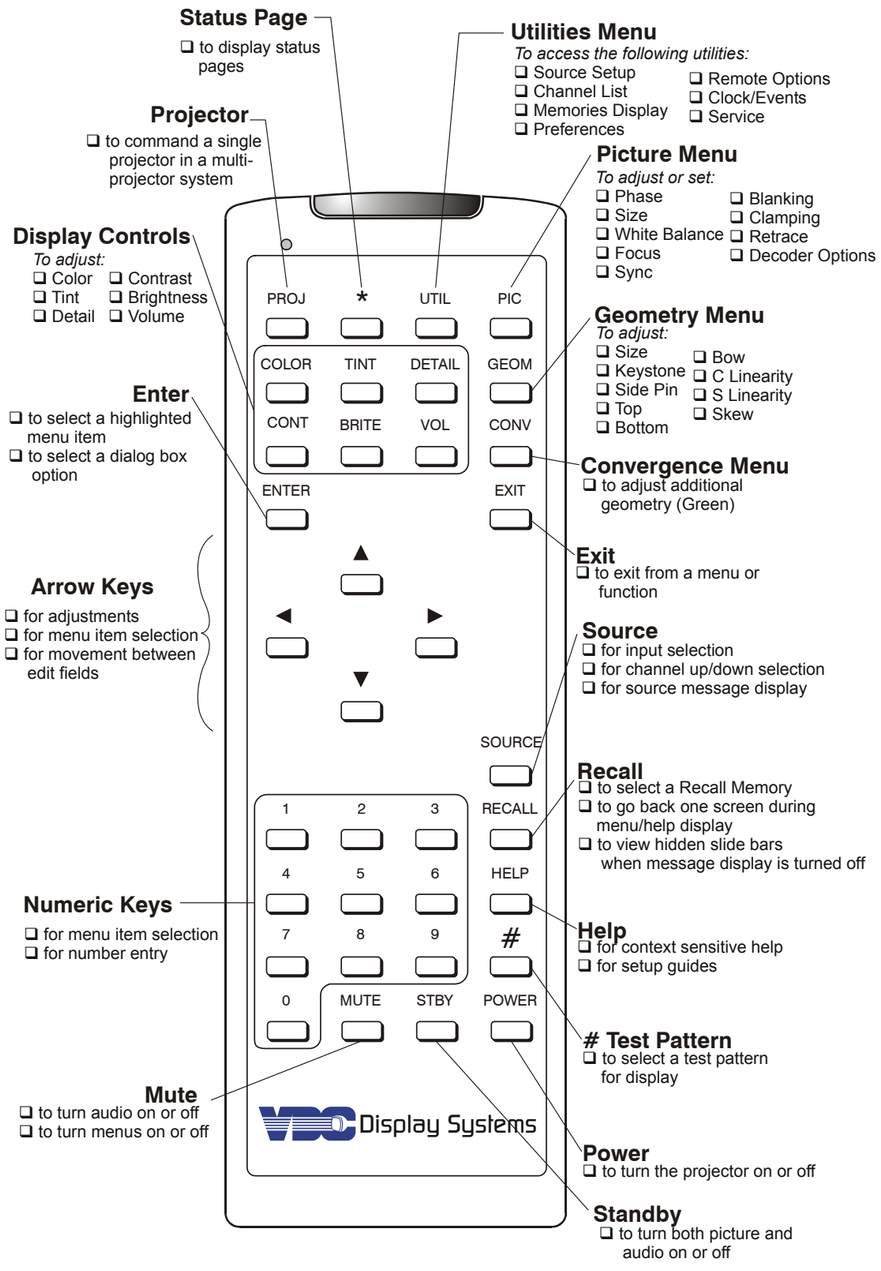
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MARQUEE® 8521 Quick Start Guide

This document is intended to provide a quick-start guideline on the Marquee® 8521 Green (HUD) projector. For detailed information refer to the User's Manual (VDCDS P/N 71180-02) on the accompanying CD.

1.1 Quick Setup

Follow these 5 steps for quick set up of the projector:

Step 1. Position the Projector

- To perform a quick setup, the projector must be positioned so that the throw distance is the same as that used during the most recent optical alignment; otherwise a detailed setup is required. The throw distance is the distance between the center lens on the projector and the center of the projection screen.
  Note: If an optical lens alignment is required, refer to Section 2.5, Optical Alignment on the accompanying CD.

Step 2. Connect the Power Cord

- Plug the AC line cord into the line input unit on the electronic chassis. Plug the three prong end of the line cord in a grounded AC outlet.
  Note: Input voltage must be between 90 VAC and 264 VAC.
  Note: Ensure the line cord is the proper type for the AC receptacle.

Step 3. Connect a Source

- Connect a source to the projector's built-in RGB input (slot 1). Ensure the source is on and properly connected. Refer to Section 1.2 and Figure 1 below.

Step 4. Turn the Projector On

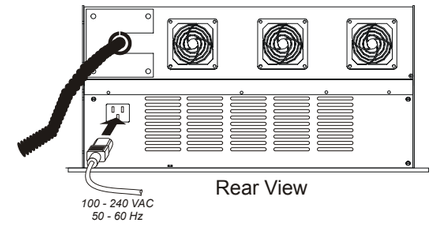
- Hold down the [**POWER**] on the keypad for one second to turn the projector on.
  Note: If the keypad has been configured for IR remote operation, point it towards the screen or the front of the electronic chassis.

Step 5. Select the Input

- Press [**SOURCE**] [**0**] [**1**] to select the source connected to the built-in RGB input.
- Adjust the Display; Press [**HELP**] [**1**] to select the Guided Source Setup tutorial.

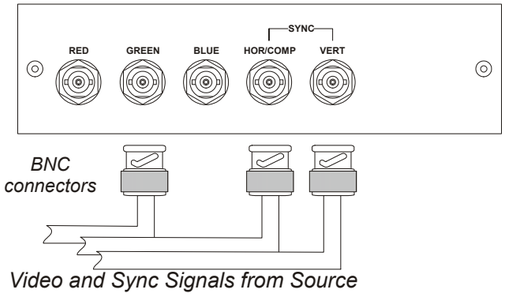
1.2 Source Connections

To apply power to the projector, plug the AC line cord into the line input socket located at the rear panel of the electronic chassis. Plug the three prong end of the line cord in a grounded AC outlet. Input voltage to the projector must be between 90 and 264 VAC, 50 or 60 Hz. The power source must supply 650 watts of power to the projector.



The projector includes a built-in RGB input interface (Video Input Module) for connection of external RGB sources. This input interface is shown in Figure 1. The built-in interface is required for normal operation.

The standard RGB interface is typically used for connection of a **R**ed**G**reen**B**lue source having one of the following sync types: sync on green (3-wire), composite sync (4-wire), or separate H & V sync (5-wire).



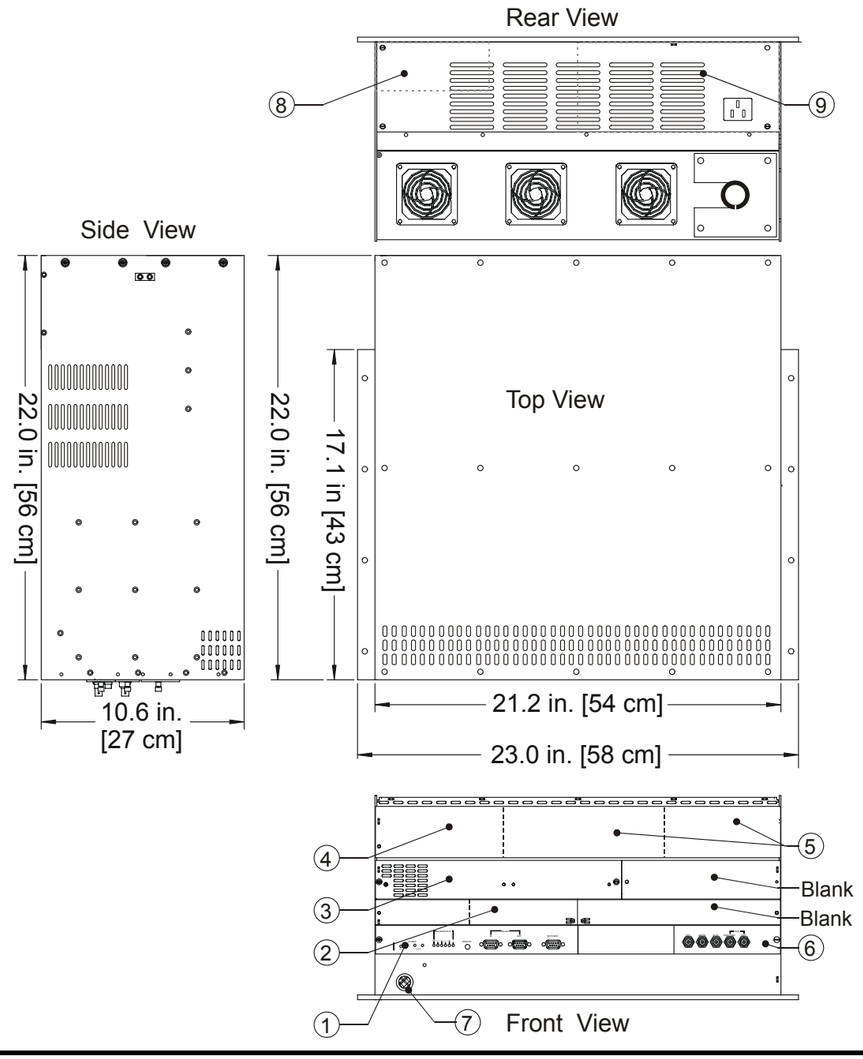
The Marquee® HUD Series is a specialized projector utilizing a single input or color. In this case, connect the source to the GREEN input on the interface. If the source uses sync on green, no additional cables are required. If the source provides a composite sync output, connect it to the HOR/COMP input. If the source provides separate horizontal and vertical sync outputs, connect the horizontal sync signal to the HOR/COMP input, and connect the vertical sync input to the VERT input. Interconnection cables must be terminated with BNC connectors. Figure 1 shows the source connections for the built-in interface.

Figure 1. AC and Source (Green) Input Connections.

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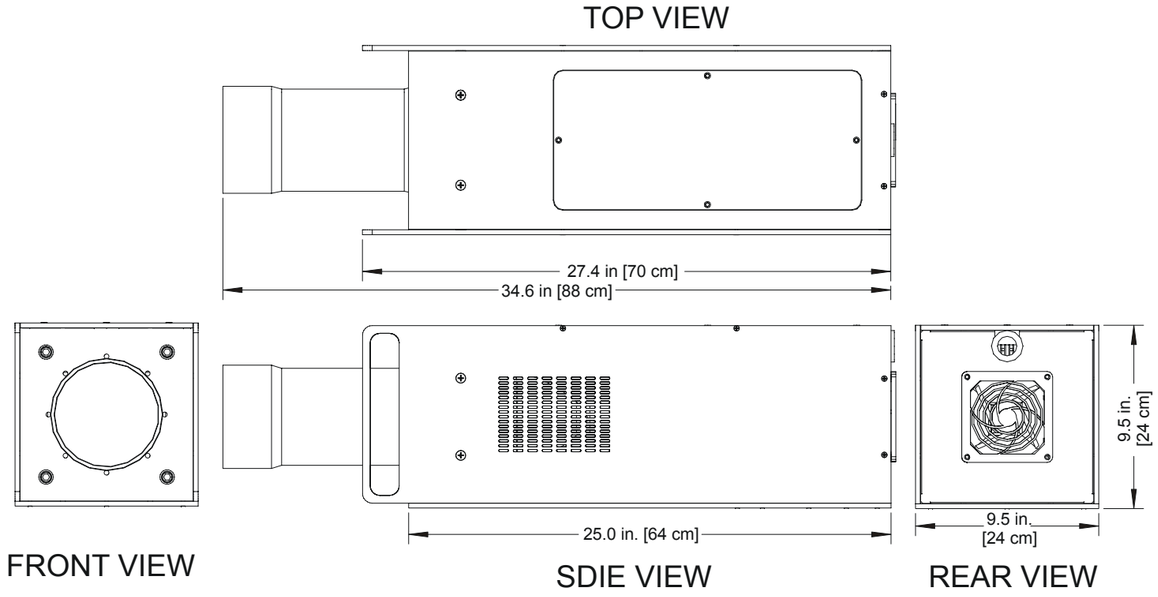
1.3 Electronic Chassis Main Assemblies and Dimensions

#	VDCDS P/N	DESCRIPTION	QTY
1	03-280336-07P	Control/DPB/Stig-Waveform	1
2	81722-01	Marquee Contrast Modulation	1
3	03-270354-04P	Module Focus & Geometry	1
4	03-271330-02P	Stigmator Module	1
5	03-270350-01P	Convergence Amp/Vertical Deflection Module	1
6	03-270335-05P	Video Input Module	1
7	03-000250-02P	IR Sensor	1
8	03-000310-02P	HVPS	1
9	03-000229-05P	LVPS	1
Ref	81721-01	Conv/Stig/Vert Adaptor, PCB	1
Ref	81730-01	HUD Mother Board, Elec. Chassis	1
Ref	81741-01	Vertical Load	2



1.4 CRT Head Main Assemblies and Dimensions

VDCDS P/N	DESCRIPTION	QTY
03-007062-03P	Green CRT 8" MAG Focus	1
03-270338-02P	Video Neck Module	1
21-000687-04	Stigmator Ring	1
21-000691-01	Yoke Deflection 8"	1
21-000692-01	Coil, Convergence 8"	1
21-000695-01	Focus MAG with Stigmator 8"	1
59874-01	Splitter, 1 IN, 1 OUT	1
59879-01	Lens, Low MAG, Hud	1
81731-01	HUD Mother Board, Head	1
81732-01	HUD Horizontal. Deflection Module	1



Examine the lens and hardware as shown in Figure 2. The lens consists of a single focus barrel. The lens is secured in place with a lens locking ring. Additionally, the lens consists of a metal lens cover which is screwed in-place. To remove the lens cover, rotate the cover counterclockwise (CCW) and place in a secure location for reuse. To focus the lens, loosen the lens locking ring. Note; the lens locking ring employs fine threads and requires multiple turns. Once loosen, rotate the lens barrel until the desired focus is achieved.

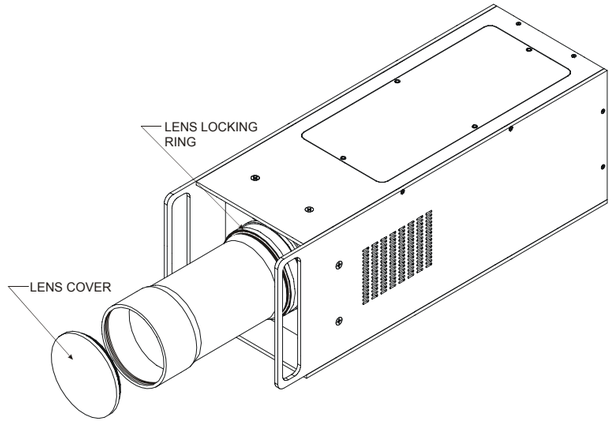


Figure 2. 8521 Lens Assembly

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