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MARQUEE 8510LC Ultra Supplement User's Guide

Section 1 Specifications/Warranty / Dimensions and Layout



This document is used as a supplement to the standard MARQUEE Ultra User's Manual (VDCDS P/N; 54-017094-01P). This supplement explains the differences in the setup and operation of the 8510LC versus the standard MARQUEE Ultra Series.

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1.1 MARQUEE 8510LC Ultra Specifications

Optics
- High definition hybrid lens
- Optical resolution: 10 line pairs/mm
- HD117-12 or HD117-24 lens
- 8" electromagnetic focus liquid-coupled CRTs
- Variable Scheimpflug focal plane adjustment for top, bottom, and side to side focus

Resolution
- 2048 x 1536 pixels
- Adjustable 6-pole magnets for improved spot shape and reduced flare

Brightness
- 225 ANSI lumens

Display
- Electronic geometry circuits separately correct top, bottom and sides for flat or curved screens up to 25 feet diagonal
- Keystone circuitry to correct pictures for angles up to ±15° vertically from screen axis
- Color temperature adjustment for precise setup
- S and C vertical and horizontal linearity controls
- Adjustable four sided blanking
- Independent 9-zone contrast modulation reference for optimal color and intensity uniformity
- Master white intensity modulation aiding uniform brightness between multiple screens
- Independent R, G and B sub-brite controls via remote control or RS-232.
- Preset CIE Color Coordinates

	X	y
Red	0.644 ± 0.020	0.347 ± 0.020
Green	0.337 ± 0.020	0.575 ± 0.020
Blue	0.148 ± 0.020	0.059 ± 0.020

Input Signals
- Video Input Level: 0.5 to 1.0 volts p-p, 75Ω ±1% terminated
- Sync Input Level: 0.5 to 5.0 volts p-p, 75Ω terminated
- Automatically switches to separate sync, composite sync, or sync on green
- Separate and composite sync are automatically accepted in either polarity
- Audio Input Level: 1.0 volts nominal

Gamma Correction (optional)
- Gamma correction circuitry provided for enhanced low-level detail for night training simulation and gray-scale tracking

Frequency Response
- 150 MHz bandwidth (-3 dB)
- Accommodates < 2.5 nanosecond pixels and digital clock rates over 250 MHz
- DC Restoration
- Keyed clamp, better than 1% accuracy

Geometry
- Individual Red, Green and Blue keystone and pincushion geometric functions minimizing “banding” effects at extreme geometric alignments
- Rectilinear Accuracy: 1.0% of picture height maximum
- Horizontal Linearity: 2.0% maximum (keypad adjustable)
- Vertical Linearity: 1.0% maximum (keypad adjustable)

Deflection Circuits
- Smartlock™ circuitry for quick lock-in and ultra steady images

Vertical Deflection
- Frequency Range: 38 Hz to 180 Hz autolock
- Size automatically regulated over frequency range and adjustable to 15% of nominal
- Retrace Time: less than 300 microseconds

Inputs
- Built-in RGBHV interface, with stereo audio inputs. Optional inputs include a RGB Input
- Module, a RGB Loop-Thru Module, a Multi-Standard Video Decoder and a HDTV Module
- Built-in RS-232 for computer control, with loop-thru for connection of multiple projectors

Horizontal Deflection
- 15 kHz to 152 kHz autolock
- Size automatically regulated over frequency range and adjustable to 15% of nominal.

Frequency Range (kHz)	Retrace Time (µs)	Blanking Time (µs)
15-30	5.5 (short)	6.5 µs (short)
30-60	3.3 (short)	3.6 µs (short)
60-130	1.6 (short)	1.8 µs (short)
30-45	5.0 (long)	5.6 µs (long)
60-100	2.5 (long)	3.2 µs (long)

High Voltage
- 34.9 kV regulated to better than 0.01%

Power Requirements
- 90 VAC to 264 VAC universal input
- Line Frequency: 50 to 60 Hz nominal
- Power: 650 watts maximum
- Power Factor Corrected (CE Compliant)

Optional Source Expansion
- The Marquee Signal Switcher allows use of up to nine additional input modules.
- Up to nine switchers can be connected.
- Maximum Number of Inputs: 78

Control Features
- Multi-language software (user selectable)
- Menu driven interface with on-screen help
- Built-in set up tutorials
- Auto power up after power interruption
- Internal frequency generator with 5 built-in test patterns
- Programmable events and real time clock
- Optional IR AMP Distribution Box, for precise control of multiple projectors.

Servicing
- Removable, sliding front or rear, one-piece top cover
- Modular design provides ease of servicing
- Most service adjustments are made using the keypad

Environment
MAXIMUM OPERATING RANGE
- Temperature: 0 to 35C
- Humidity: 0 to 90% non-condensing
- Altitude: 0 to 3000m (0-10,000 ft.)

STORAGE
- Temperature: -30C to 65C

HEAT DISSIPATION
- 2450 BTU/Hr (approximate)

Mounting
- Can be ceiling mounted or placed on a cart for portable applications

Weight
- 144 lbs (65 kg) / 194 lbs (88 kg) shipping weight

Accessories Included
- 1 IR remote multi-use, backlit, full function keypad
- Tool Kit
- User's manual
- Line cord

Regulatory Approvals
- FCC Class A, DHHS and HWC requirements, EN55022 Class B
- CSA/UL/EN 60 950
- EU Directives 73/23/EEC, 89/336/EEC (CE marked)

Warranty
- Three years parts (1 year CRTs) and One year labor (see user's manual)
- Extended warranties available

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1.2 VDC Display Systems Limited Warranty Policy

VDC Display Systems (hereinafter VDCDS) warrants this product to be free from defects in material and workmanship under normal use, subject to the limitations provided below.

Product Warranties

Product	Parts	[3]Labor
[1]MARQUEE® CRT Series	3-years (1-year for CRTs)	1-year
[1]MARQUEE® SIM 1500 Series	3-years (90-days for Lamps)	3-year
[2]Spare/Refurbished Parts	90-days	n/a
Accessories	90-days	n/a
Refurbished Projectors	90-days	90-days

[1]This applies to projectors purchased under the standard reseller agreement. May vary from reseller-to-reseller and purchase agreements.

[2] Warranty for replacement parts is 90-days or the remainder of the projector warranty, whichever is greater.

[3] Labor warranties are valid only if the defective product is returned to VDCDS or an authorized Service Depot. Does not cover travel and living expenses for on-site service.

Warranty Period (CRT/SIM 1500 Series):

The warranty period as stated in the above Product Warranties, will start after the date of installation, but limited to a maximum of thirty-nine (39) months (CRT Series-parts only / SIM 1500 Series-parts & labor) from date of shipment from the factory, whichever occurs first. VDCDS will repair or replace any defective part, without charge for parts or labor as stated above. Replacement parts will be covered by this limited warranty for the remainder of the warranty period. This Limited Warranty applies only to parts supplied or designed by VDCDS.

Date of Installation:

To establish the date of installation, the VDCDS Certificate of Registration should be completed, signed and returned to VDCDS postmarked no later than thirty (30) days from the date of installation and no later than ninety (90) days from date of shipment. If the VDCDS Certificate of Registration is not returned within such time, VDCDS will use the date that the system was shipped from the factory as the date of installation.

Original Purchaser:

This Limited Warranty is limited to the original purchaser (end-user) of this product from either VDCDS or VDCDS authorized service depot or reseller.

Reseller Obligation:

- The reseller is expected to evaluate the product upon receipt, to insure that it is in proper working condition. Additionally, the reseller is responsible for making any minor set-up at no cost to VDCDS or the customer.
- The reseller must advise the customer that the Certificate of Registration be filled-out and returned within thirty (30) days from the date of installation. See Date of Installation.

Warranty Service:

It is the responsibility of the reseller to provide technical assistance and/or warranty service to the customer.

In cases where the reseller can not provide technical assistance or perform the warranty service required;

- It is the resellers' responsibility to contact VDCDS or its closet service depot for technical assistance;
- In the event that the reseller can not perform the warranty service required and the product must be returned, it is the responsibility of the reseller to insure that the product is properly packed, and obtain the required Return Authorization Number, see Product Return/Shipping

Product Return/Shipping:

Prior to returning this product or any sub-assembly to VDCDS,

- An RA Request form must be completely filled-out and submitted to VDCDS or an authorized service depot.
- A Return Authorization Number (RA#) must be obtained from the VDCDS Technical Service Department.
- The product must be shipped in the manufacturer's original shipping carton or other VDCDS approved packaging.
- All freight and shipping charges to VDCDS must be prepaid by the customer. The return shipping of the product under warranty will be the responsibility of VDCDS.
- Damage resulting from abuse in shipment of this product is not covered by this Limited Warranty.
- VDCDS approved shipping cartons are available from VDCDS for a nominal charge.

Environmental Damage:

This Limited Warranty does not cover damage or repairs that are necessary due to floods, winds, fires, lightning, accidents, corrosive atmosphere, and excessive exposure to water (moisture), heat, or any condition beyond the control of VDCDS.

Serial Number Defacement:

This Limited Warranty is void for the product if the serial number has been changed, removed or defaced.

Limitations

This Limited Warranty does not cover:

- incorrect installation;
- voltage conditions, blown fuses, open circuit breakers or any other inadequacy or interruption of properly grounded electrical service;
- any condition outside the operating specifications of the projector;
- misapplication, abuse, improper servicing, or any other improper operation, including mis-adjustments of any control;
- defects in or caused by associated equipment;
- repair and/or modification of the product or any sub-assembly performed by other than VDCDS factory personnel;
- phosphor degradation of the picture tube (CRT); example, visible burns or patterns on phosphor screen during normal use

System Maintenance:

Normal maintenance as outlined in the installation and servicing instructions of the respective Operator's Manual will be the responsibility of the purchaser.

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Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you. This Limited Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state or country. NO other person is authorized to assume for VDCDS any additional obligations beyond those provided herein

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1.3 System Dimension and Module Layout

The MARQUEE 8510LC features include; Easy to access and service, smaller profile for restrictive installations, rugged construction and stable performance.

1.3.1 System Dimensions

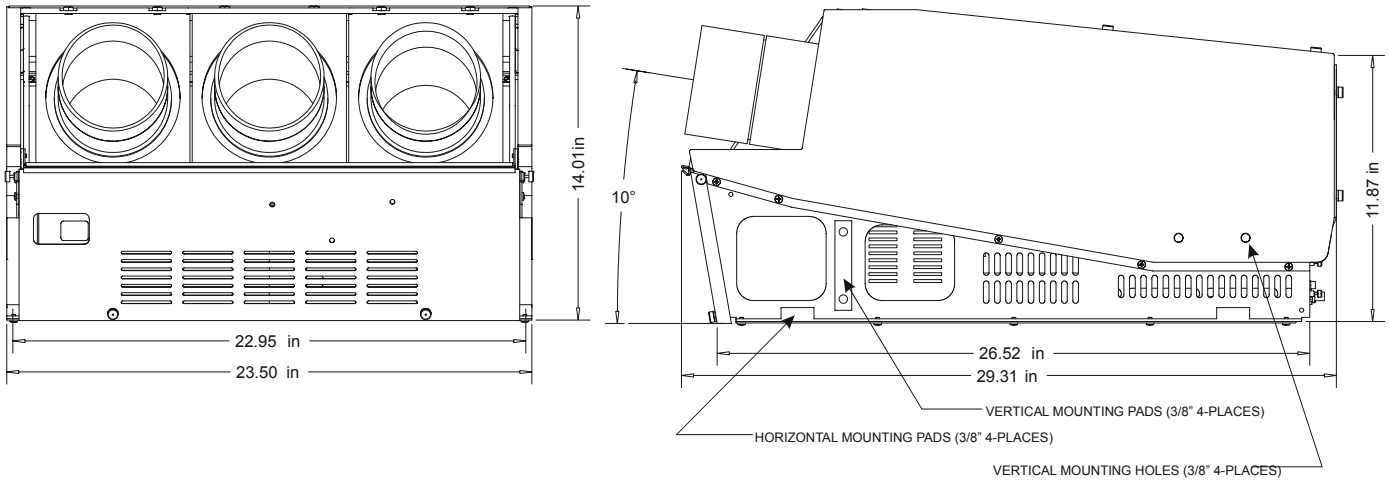
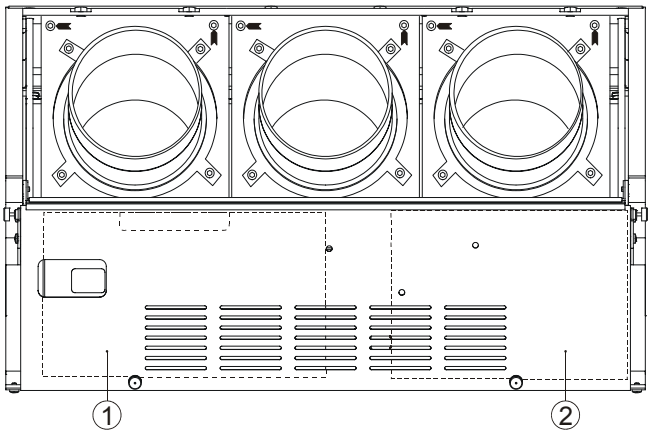


Figure 1-1. Dimensions

1.3.2 Module Layout and Parts List

Front View



Rear View

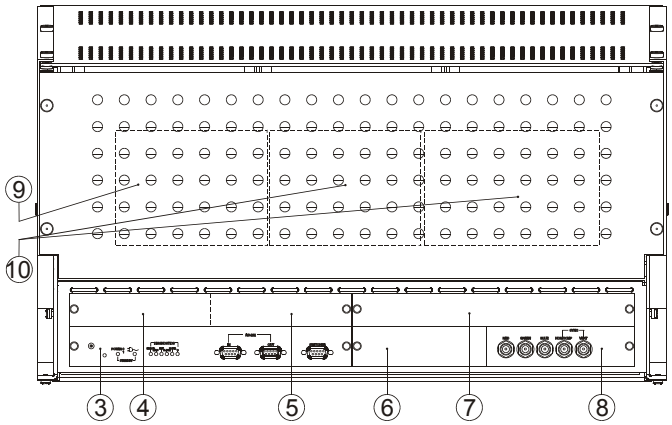


Figure 1-2. Module Locations

MARQUEE 8510LC Major Component Parts List

Item	VDCDS P/N	Description	Qty
1	03-000229-05	LVPS Assembly	1
2	03-000310-02	HVPS Assembly	1
3	03-280336-08	Control/DPB/Stig-Waveform	1
4	N/A	ACON Control Bd. (Optional)	1
5	81722-01	Marquee Contrast Modulation	1
6	N/A	Option Slot	1
7	N/A	Option Slot (Quad Decoder)	1
8	03-270335-05	Video Input Module, Black	1
9	03-271330-02	Stigmator Module	1
10	03-270350-01	Convergence Amp/Vertical Defl.	1
Ref	03-260315-04	Mother 34kv Backplane	1
Ref	03-260358-02	Upper Mother	1
Ref	03-270303-09	Horizontal Deflection Module	1
Ref	03-270338-01	Video Neck Module	3
Ref	03-270354-02	Module Focus & Geometry	1
Ref	34-001359-01	HV Splitter	1
Ref	81729-04	Red 8" LC CRT w/Mags	1
Ref	81729-05	Green 8" LC CRT w/Mags	1
Ref	81729-06	Blue 8" LC CRT w/Mags	1

"Ref" denotes internal components not shown or indicated.

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2.1 Optical Alignment

Optical alignment is required when the throw distance changes or the projector cannot be focused using the focus controls. The projector is optically aligned at the factory at a fixed screen size and a fixed projector-to-screen distance. If the projector throw distance has changed since the last setup, proceed as follows:

Note: The projector must be warmed up for 30-45 minutes prior to performing optical alignment.

Note: Optical alignment is both a mechanical and electrical adjustment. Electrical adjustments are stored in the current setup memory. After alignment is complete, setup memories which were previously set up (if any) must be set up again.

Note: Factory alignment is preformed using the internal crosshatch with a 61.8 kHz signal applied.

It is recommended that optical alignment be performed using the projector's Guided Mechanical Setup tutorial. This tutorial displays step-by-step instructions during the alignment. The instructions in this section require use of the Guided Mechanical Setup tutorial.

Examine the lenses and hardware as shown in Figure 2-1. Each lens consists of a rear section and a front section. The rear section sets the optical focus at the center of the image and is secured to the lens body by a focus knob at the top rear of the lens assembly. The front section sets the focus at the corners and is secured to the rear section by a focus knob at the top front of the lens assembly.

For the 8510LC, the lenses are secured to the projector frame by a top plate and individual mounting plates as shown in Figure 2-1. During optical alignment, loosen the top plate securing bolts (2-places/labeled **A**) and Phillips screws (2-places-labeled **A**), and the top lens pivot bolts (labeled **B** **C** **D**) using a 7/16 wrench (supplied). Loosen the lower lens pivot bolts using the 3/16 ball nose driver also supplied. Adjust the mounting plate securing bolts using either the ball nose screwdriver or the projector wrench, as necessary.

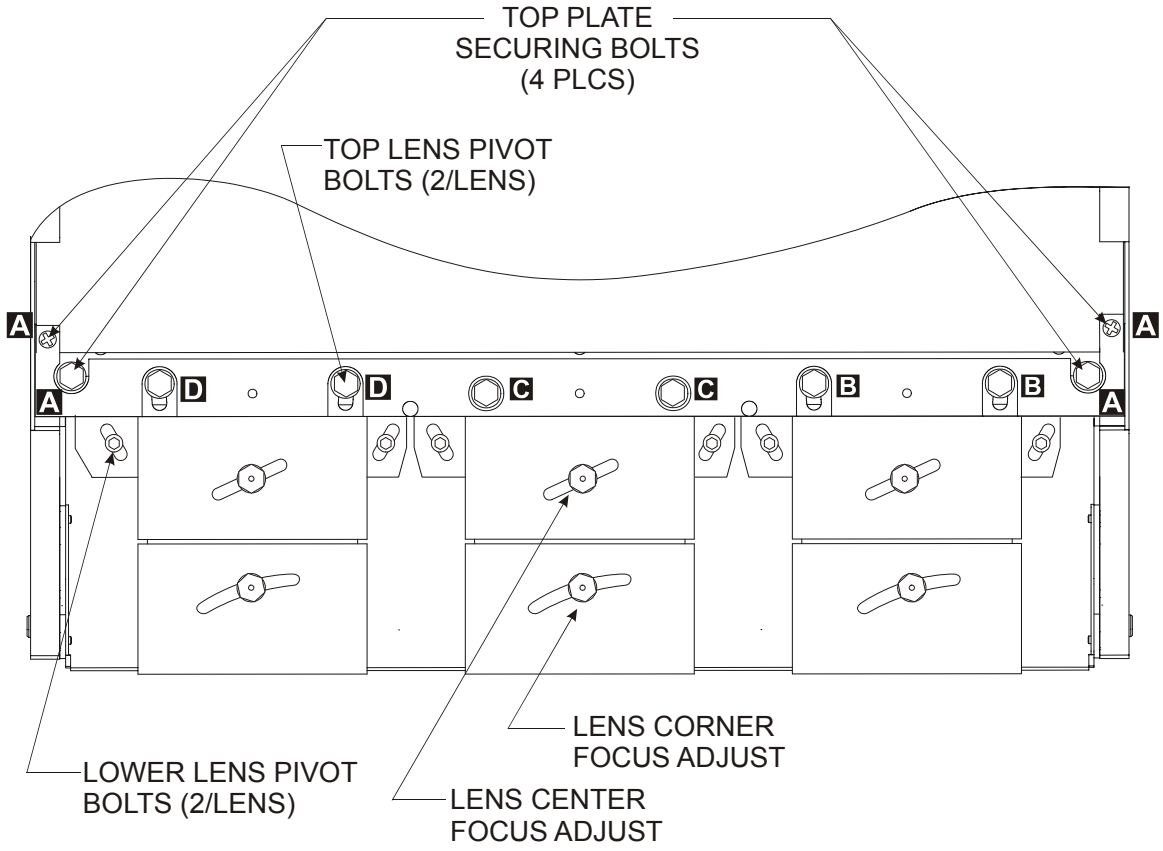


Figure 2-1 8510LC Lens Assembly – Top View

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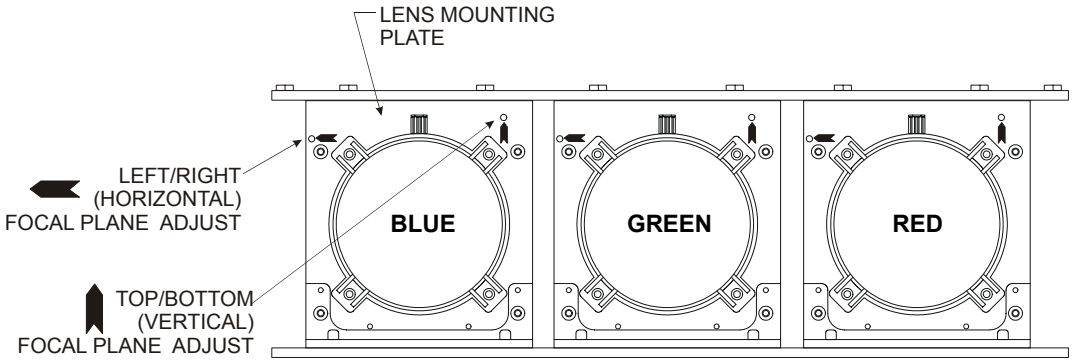


Figure 2-2. 8510LC Lens Assembly-Front View

Each CRT is attached to its lens by socket head Allen screws located at each lens mounting plate. For each lens, the upper left screws (when facing the lens) adjust the focus between the left and right sides of the picture and the upper right screws adjust the focus between the top and bottom of the picture as indicated by the directional arrows on each lens mounting plate. Use the supplied 1/8" ball nose screw driver for these adjustments.

Step 1. Loosen the rear focus knob on the green lens. Rotate the lens using the focus knob until the picture is focused in the center. Tighten the rear focus knob.

Step 2. Loosen the front focus knob on the green lens. Rotate the front lens barrel until the picture is focused in the corners. Tighten the front focus knob.

Step 3. Step 4 - Step 6 require that you look directly into the lenses for adjustment. Before you continue, press [▼] to reduce contrast to a low level (less than 10%).

! WARNING: DO NOT LOOK INTO THE LENSES IF CONTRAST IS SET TO NORMAL VIEWING LEVEL.

Step 4. Look directly into the red lens. Press [▲], [▼], [◄] or [►] to center the displayed crosshatch on the face of the picture tube.

Step 5. Look directly into the green lens. Press [▲], [▼], [◄] or [►] to center the displayed crosshatch on the face of the picture tube.

Step 6. Look directly into the blue lens. Press [▲], [▼], [◄] or [►] to center the displayed crosshatch on the face of the picture tube.

Step 7. Press [▲] to increase contrast to a normal viewing level.

Step 8. Pivot the projector and move it side to side as necessary to display a symmetrical crosshatch centered left-to-right on the screen. The pivot point should be at the rear focus knob of the green lens to avoid changing the throw distance.

Step 9. Tilt the projector until the center horizontal line is level and centered with the screen.

Step 10. A red image is displayed. Loosen the rear focus knob on the red lens. Rotate the lens using the focus knob until the picture is focused in the center. Tighten the rear focus knob.

Step 11. Loosen the front focus knob on the red lens. Rotate the front lens barrel until the picture is focused in the corners. Tighten the front focus knob.

Step 12. A blue image is displayed. Loosen the rear focus knob on the blue lens. Rotate the lens using the focus knob until the picture is focused in the center. Tighten the rear focus knob.

Step 13. Loosen the front focus knob on the blue lens. Rotate the front lens barrel until the picture is focused in the corners. Tighten the front focus knob.

Step 14. Press [▲] or [▼] to adjust for best electrical focus at the center of the picture.

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Note: It may be necessary to loosen the two top plate securing bolts prior to performing the lens pivot procedure that follows.

Step 15. On the red CRT, loosen the top (1/4" hex bolt - **B**) and bottom (3/16 socket) lens pivot bolts.

Step 16. A red and green crosshatch is displayed. Move the red lens so that the left and right edges of the red crosshatch match the green.

Step 17. Tighten the lens pivoting bolts.

Step 18. On the blue CRT, loosen the top (1/4" hex bolt - **D**) and bottom (3/16 socket) lens pivot bolts.

Step 19. A blue and green crosshatch is displayed. Move the blue lens so that the left and right edges of the blue crosshatch match the green.

Step 20. A green image is displayed. Loosen the rear focus knob on the green lens and slightly defocus the center of the picture.

Step 21. Locate the focal plane adjustment bolt in the upper right corner of the green lens mounting plate (viewed from the front). Adjust the 1/8" Allen head bolt located at the upper right corner of the green lens mounting plate until the top and bottom areas of the picture are equally defocused.

Note: It may be necessary to readjust the lens' rear focus knob to keep the center defocused.

Step 22. Rotate the green lens using the rear focus knob until the picture is focused in the center. Tighten the rear wing nut. If necessary, loosen the front focus knob, rotate the front lens barrel to readjust the focus in the corners, and then re-tighten the knob.

Step 23. A red image is displayed. Loosen the rear focus knob on the red lens and slightly defocus the center of the picture.

Step 24. Adjust the 1/8" Allen head bolt located at the upper right corner of the red lens mounting plate. Turn the bolt head until the top and bottom areas of the picture are equally defocused.

Note: It may be necessary to readjust the lens' rear focus knob to keep the center defocused.

Step 25. Adjust the 1/8" Allen head bolt located at the upper left corner of the red lens mounting plate. Turn the bolt head until the left and right sides of the picture are equally defocused.

Note: It may be necessary to readjust the lens' rear focus knob to keep the center defocused.

Step 26. Rotate the red lens using the rear focus knob until the picture is focused in the center. Tighten the rear knob. If necessary, loosen the front focus knob, rotate the front lens barrel to readjust the focus in the corners, and then re-tighten the knob.

Step 27. Blue image is displayed. Loosen the rear focus knob on the blue lens and slightly defocus the center of the picture.

Step 28. Adjust the 1/8" Allen head bolt located at the upper right corner of the blue lens mounting plate. Turn the bolt head until the top and bottom areas of the picture are equally defocused.

Note: It may be necessary to readjust the lens' rear focus knob to keep the center defocused.

Step 29. Adjust the 1/8" Allen head bolt located at the upper left corner of the blue lens mounting plate. Turn the bolt head until the left and right sides of the picture are equally defocused.

Step 30. Rotate the blue lens using the rear focus knob until the picture is focused in the center. Tighten the rear knob. If necessary, loosen the front focus knob, rotate the front lens barrel to readjust the focus in the corners, and then re-tighten the knob.

Step 31. Tighten all previously loosen hardware.

Note: ***For the remaining setup and convergence requirements, refer to the accompanying MARQUEE Ultra User's Manual (VDCDS P/N: 54-017094-01P).***

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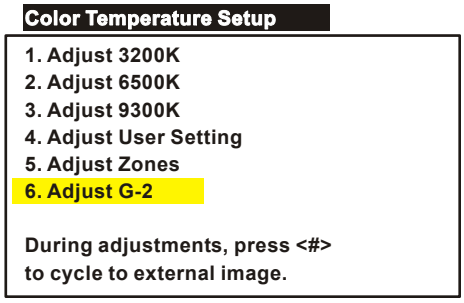
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Appendix A Updates

This section of the Supplement is used for updates to the product as they are available.

A.1 Update-Firmware Revision



A.1.1 Date: 5/2003

Version From: 4.5 To: 4.7

Update: Firmware revision change to add or correct the following;

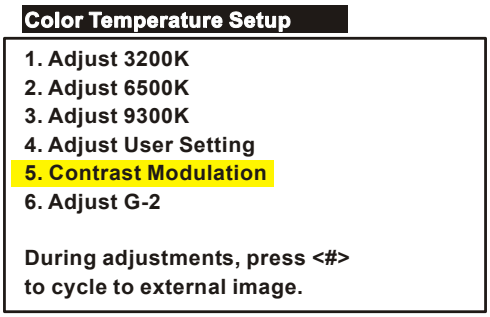
1. Color Temperature Setup; [**UTIL**] [**9**] [**SERVICE**] [**1**].
    a) Under items 1-4, Adjust.....the G-2 adjustment functionality has been replaced with the Red and Blue Sub-brite adjustments. The G-2 adjustments have been added as a separate menu item [**6**].

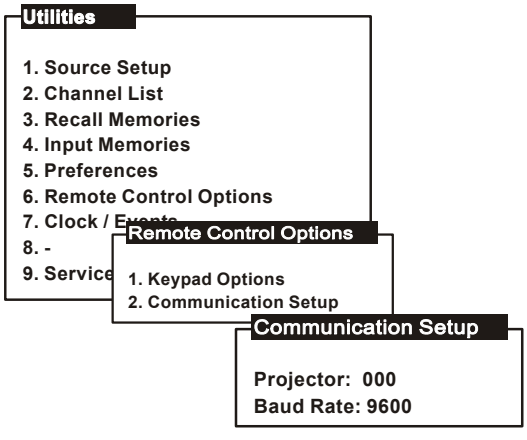
A.1.2 Date Stamp: 5/2003

Version From: 4.7 To: 4.8

Update: Firmware revision change to add or correct the following;

2. Service Password; [**UTIL**] [**9**]
    a) The condition for re-entering the required service password every time the user leaves the Utilities Service section of the menus has been removed. The only time a user is required to re-enter the password is when the projector has been powered down.
3. Menus (on-screen display) On/Off; [**UTIL**] [**5**] [**PREFERENCES**] [**2**]
    a) Under the old scheme, once the on screen messages were turned off, they could be reactivated by the selection of any menu key. Once that occurred, the command would have to be re-entered to disable the on-screen display. The new routine allows the user to turn off the on-screen display and temporarily reactivate the on-screen display by pressing [**RECALL**] and any menu button. To revert back to the on-screen display "off" condition, the user simply needs to press [**EXIT**] from a menu.
4. Color Temperature Menu;
    a) Item 5 has been reworded from; Adjust Zones, to; Contrast Modulation
5. Context Sensitive Help;
    a) The internal help text has been corrected to indicate proper Optical Adjustment procedure.
6. Test Pattern Sequence;
    a) The test pattern sequence has been changed to where the fist test pattern available is the external image.





A.1.3 Date Stamp: 7/2003

Version From: 4.8 To: 4.9

1. Fixed Standby function that can talk to projector between projectors that are in Standby (Sleeping mode).
2. Add Menu function, user can move menu screen location by selecting projector number. This is based on an install system of 7-8510 projectors and 1 HUD (Green) Projector. Menu re-location is based on projector number and screen configuration.
3. To change the projector number, select [**UTIL**] [**6**] [**2**]

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Display Systems

7177 N. Atlantic Avenue, Cape Canaveral, Florida 32920-3719 USA
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