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Technical Bulletin

Marquee Software Main 68k V3.3 Release Notes

About the Main processor

The Control Module (CLM) of the Marquee series projectors is a complex electronic system. Its correct operation is critical to the performance of a Marquee. The key to the system is a Motorola 68000 or 68EC000 16-bit microprocessor (U27). The programming for this microprocessor is stored in an EPROM (U35). Here, UXX refers to the component designations on the CLM. U35 is the main software for the Marquee and is identified by its version number in the form VX.X, for example V3.3. The software version of any Marquee series projector can be determined either by examining the label on U35 of the CLM directly or by simply pressing the "*" button on the keypad to show the projector status page from which the software version can be read.

Compatibility Issues

This software can be installed in most Marquee projectors. See the following table for limitations.

Compatibility by Control Board PCB number

	CLB (PCB 50-2006-02P)	CLB (PCB 50-2036-03P or higher)
Typical Marquee Model No.	8000, 9000,8110	8110+, 8500, 8500LC, 9500LC
IOP Software Version	I1.5 (or higher)	I2.4 (or higher)
Multiple Language Support	No	Yes
Maximum # of Setup Memories Allowed with V3.3	* 40 (was 80)	80

* If more than 40 setup memories are required, replace CLB with Service Assembly Part No. 03-2x0336-03P (or higher) or contact Electrohome.

CLM's with other main board PCB numbers are incompatible and must be replaced with Service Assembly Part No. 03-2x0336-03P (or higher).

Upgrade Issues

1. **Warning**: Version V3.0 of all foreign languages MUST be loaded into the projector before they can be used. Use of old versions (V1.0) of the languages (as were loaded during initial production process) may result in "Complete Projector Initialization".

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The languages are loaded using Marquee Librarian V1.8 software on a PC (supplied in the upgrade kit).

2. Whenever this software or a future version of this software is installed, the date and time must be set.
3. If using Marquee Librarian to restore parameters, check for the desired keypad protocol settings after the restore process and before powering down the projector. (<UTIL><6><1>)

About the changes from V3.1 to V3.3

V3.1 is the previous production release.

There are several new features supported by this version of software:
- Real-time Clock and Programmable Events (<UTIL><7>)
- Software-adjustable Horizontal Linearity (<GEOM><7> & <GEOM><8>)
- Improved ACON reliability and accuracy.

In addition, this improvement has been made:
- The text for the default for Auto Clamp shows as "Off" only in version V3.1. In V2.0 and V3.3 the text correctly shows "On". Only the text was incorrect.

Application Notes

1. If Channel UP or Channel DOWN programmable event is enabled, it stops cycling on entry into Standby and restarts cycling on leaving Standby.
2. If using ML to restore all values, ACON Learn Screen information is not restored. It must be redone.
3. Horizontal S and C Linearity are implemented using green convergence and use the same full range. If any adjustment uses most of the range, the other adjustments <u>may</u> have no effect in areas of the screen where the green convergence is already at maximum. This could result in vertical bars visible in a white field.

If you would like to obtain the U35 V3.3 software, contact an Electrohome Service Depot.
Order part number 03-2V03V3-01P for Marquee Models 8110, 8000 and 9000.
Order part number 03-3V13V3-01P for Marquee Models 8110 PLUS, 8500 and 9500LC.