MAC 600™

Software
Main CPU
2002-04-02
ID: 2110 User support

Version 2.4, 2000-12-27

- Pan/tilt position correction routine adapted for drive trains with adjustable belt tension. Motor speed is reduced while correcting step loss; there is no change to normal performance.
- Pan/tilt feedback is disabled if the position is not corrected after 10 seconds.

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Version 2.3, 2000-05-02

- Adds the menu item "SPEC->ETYP" to select the type of electronic ballast used. The default setting, "SCHI" (Schiederwerk ballast), works best for MAC 600 E´s after S/N 402070-0000. For earlier MAC 600 E´s, select "MITR" (Mitronic ballast) for proper operation.
- Only affects MAC 600 E. For standard MAC 600s with magnetic ballast, there is no change in performance.

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Version 2.2, 1999-12-21

- Tilt deceleration speed changed slightly in PTSP FAST mode.
- Bug fix: A programmed pan position could vary slightly from time to time in PTSP FAST mode.

Version 2.1, 1999-05-31

- Fixes a bug in version 2.0 that caused irregular pan movement in tracking mode.

Version 2.0, 1999-05-10

- Implements version 3 of the DMX protocol.
- On MAC 600 E´s the reduced lamp power mode (400 W) can be selected (DMX 116 - 122) on the shutter channel.
- Improved studio mode.
- Studio mode can be disabled (240 - 242) or enabled (243 - 245) on the effect speed channel.
- Maximum pan/tilt speed in FAST mode reduced to eliminate step-loss on some fixtures.
- Pan and tilt tracking improved at low speed.
- If PSET is changed to "MART" via MPBB1 in DMX-mode, the "MART" command is now stored but it doesn´t take effect before the fixture has been powered off.

Version 1.9, 1998-07-31

- Fixes the memory error problem described elsewhere.
- After upload of software ver. 1.7 or 1.8 on fixtures with PCB´s produced before 97-06-20 the display could read "ALL" and the fixture went into factory adjustment mode. Adjustment mode is now achieved by mounting a jumper on PL101 instead of PL253/254.
- New menu item "TRAC" with the submenus "MOdE" and "CAL" for adjusting the pan and tilt tracking algorithm. Under "MOdE" two different tracking modes "MOd1" and "MOd2" can be selected. In most cases "MOd1" is the best choice, but when using controllers with a very irregular DMX-update, "MOd2" could give better performance. Under "CAL" the smoothness level can be selected between 1 and 10. Experiment for best results.
- Lamp check implemented. If the lamp explodes, lamp feedback disappears and pan/tilt are disabled to prevent hot glass fragments from being flung from the fixture.
- Bug fix: Bump from fixed color values (161 - 185) to color scroll values (0 - 160) in DMX tracking mode could cause slow movement on both color wheels.
- Bug fixed: When a "lamp on" command was transmitted from the 3032, the command was ignored until another command was transmitted to the fixture.
- Boot-sector bug fixed: If a software upload was interrupted at 1 specific point in the process by turning off the fixture, it could not be set to upload mode again and a hard boot was necessary. To install the new boot sector, the jumper on the motherboard at PL121 must be moved to the INIT position.

Version 1.8, 1998-03-24

- Implements an automatic delay when attempting to restrike a hot lamp to ensure that the lamp does in fact strike that is necessary with the electronic ballast model.
- Improves pan and tilt bump response over short distances in DMX tracking mode.

- Makes it possible to disable the magnetic sensors on the effects wheels by setting the effect feedback (EFFb) setting under the SPEC menu to "off."
- Fixes a bug that occurred when resetting the fixture from the MAN menu: when doing a reset via the menu interface and immediately pressing MENU, the reset slowed down substantially, which could be seen on pan movement and caused a pan error.
- Adjusts strobe speed 7 in Martin protocol to prevent loss of step on the shutter due to a harmonic vibration.

Version 1.7, 1997-10-17

- DMX protocol version 2 implemented.
- Change menu settings via Martin protocol with MPBB1.
- Pan/tilt tracking speed smoother when changing direction..
- New menu SPEC->dRES, DMX reset disable. When OFF, reset via DMX is only possible if all CMY channels are between 230 and 232, inclusive.
- Pan/tilt norm/fast speed setting can now be overridden on the DMX pan/tilt speed channel.
- Shortcuts (SPEC->SCUT) on/off can now be overridden on the DMX effects speed channel.
- SPEC->DFSE now has submenus FACT, CUS1, CUS2 and CUS3. Under CUS1 - CUS3, one may save custom "default" settings. FACT contains the factory default settings.
- New menu SPEC->ALON, auto lamp on. If this is ON, the fixture will automatically strike the lamp after a 0 - 90 second delay determined by fixture address.
- New menu SPEC->FTST->STST, sensor test, with submenus dIM, CYAN, MAG, YEL, COL, bS1 and bS2 for factory testing of hall sensors.
- SPEC->TEST renamed SPEC->PCbT.

Version 1.6, 1997-08-15

- Fixes a bug in which the DMX signal on a random channel is misinterpreted for a fraction of a second. This results in unpredictable behavior for a brief instant, after which normal control returns. This is most noticeable when it affects the shutter, as it reacts the fastest. The problem occurs at an interval of several minutes and only in connection with certain DMX desks, for example, the Compulite Animator.
- Prepares for the electronic ballast. The electronic ballast reduces power to the lamp from 575 W to 400 W when the shutter is closed for more than 10 seconds.

Version 1.5, 1997-08-08

- New shutter position in ADJ/HEAd/ALL. Note: The shutter position in ADJ/HEAd/SHUT in version 1.4 may be used for shutter adjustment.

Version 1.4, 1997-07-04

- Smoother color tracking at slow fade rates.

Version 1.3, 1997-06-28

- Corrections regarding data reception on Martin RS-485 protocol (i.e. via 3032). In version 1.2 the fixture may respond incorrectly on CMY, colors and movement at certain combinations of speed parameters.
- Prepared for reconfiguration of all menu settings through the serial data link.
- Only DMX packets with start code "0" accepted. Start codes "139", 187", "203" and "237" are used for other purposes.
- New menu: SPEC->SCUT (shortcut). Allows disabling of shortcuts on the dimmer and CMY wheels.
- CMY linearity improved at low values.
- Smoother dimmer tracking at slow fade rates.
- More accurate fan regulation.
- If there is more than one error message, they are all displayed at 2 seconds intervals.
- Shutter always closes during serial fixture reset.
- Adjust programs changed.
- New menu: SPEC->FTST (Factory Test) with the sub-menus WTST (Wheel Test) and MTST (Movement Test). This menu is for factory testing only.

Version 1.2, 1997-05-28

- Automatic fan-regulation.
- Temperature readouts.
- If the dimmer is bumped to its closed position, the shutter will close to provide a faster blackout. Can be disabled.
- New menu for special PCB test purposes.
- Speed increased on all the wheels if EFSP->"FAST" is selected.
- Split colors.
- Readout number of lamp strikes.
- Position feedback on the effects wheels corrects position.

Version 1.1, 1997-04-28

- Readout software versions.
- Pan and tilt reset disable. Useful when the MAC is in the flightcase.
- New error-messages "bTER" base temperature meassurement circuit error and "HTER" head temperature measurement circuit error.
- New menu MOdE: "STUd" (studio mode) or "NORM " (normal mode). In studio mode, current to the step motors is reduced for quieter operation.

Version 1.0, 1997-03-01

- Shortcuts on dimmer, CMY, color and beam shaper 2.
- Protocol autodetect.
- Pan/tilt fast mode.