

Mmdisp (G-Lec control software)  
Version 3.5.1.9  
Changelog

	Short	Description
Installer-Related		
1	Updated USB driver	Version 2.04.16 of march 2009; now WHQL-certified; one driver for 32Bit and 64Bit systems
2	Cable calculator	Version 1.1 of august 2008
3	Serial updater	Version 0.71 of may 2008. Is called directly upon installation, to ensure you have the most current serial file right from the beginning.
4	Test animations	Animations now come as quicktime movies, and live in a subfolder of the program. Shortcuts are automatically created in the program menu
5	Windows version dependend installation path	To circumvent Vista/Windows 7-UAC difficulties, the installer suggests to install the program not to %program folders% on those systems
6	Serial_solaris.dat included	For the people who have the old solaris system, the specific solaris_serial.dat is included.
7	Project file extension registered with mmdisp	This was already the case since fall 2008: now, the file extension .md is registered to be opened with mmdisp. Just double-click any project (or right-click, OPEN)
Program Changes		
8	Video playback list cancelled	The previously existent playback functionality has been dropped (was not stable, and everyone has several media players on the computer installed anyway)
9	Second monitor not occupied any more	Since mmdisp doesn't work as media player, the secondary computer monitor is not occupied any more.
10	Unneeded buttons/selects removed	Some unneeded buttons and selects have been dropped (select frequency, select video source...)
11	Gamma upload	In the Upload dialog, you can select 'global gamma' in order to set gamma and colour values. These can be stored as defaults if you want to. Furthermore, since the gamma upload takes its time, you can select 'keep gamma' in order to upload brightness/positions only. If neither gamma nor keep_gamma is selected, frames automatically reset to gamma = 1. <b>Note that older panels (Phantom II-60, Phantom 30-1) do not understand those commands, and will not work properly if global gamma or keep_gamma is selected.</b>
12	Panel selection	In the properties menu, now you can select which panel to use. This is a project-wide setting (if you plan to mix panels of different types in one project, simply select Phantom 60 – and use multiples of it for Phantom 30). This setting is not yet stored in the project file. If this is changed after a group has already been created, simply open one group for editing, and close it again (or: zoom in, and zoom out)
13	Group naming	Groups can be given names now.
14	Group-wise brightness/colour	In the group-edit dialog, brightness and colour/gamma can be set per group individually. Be careful with per-group-gamma/colour: if this is used, gamma will <b>always</b> be uploaded (upload will take very long)
15	MaxBB removed	Hm, well, not exactly, but not needed anymore. All panels (except old Solaris) now feature the MSB of the brightness channel, hence, even Phantom 30-1 (64 brightness steps) understands the full scale
16	Group edit: add/remove columns/rows	Quite easy: in the group-edit-dialog, right-click a field to add or remove a column or row
17	Group edit: move panels/areas	Use the buttons at the bottom (click the second one to activate this mode, then use the arrows). Needs a little playing-around, but one might find it useful
18	Create groups: enter numbers	Now, in the create-group dialog, one can enter the numbers manually (into the two fields at the bottom)
19	Group moving	Now, the selected groups can also be moved with the keyboard arrow keys (there is still a little issue if the group is at the very left or top edge; see \$\$\$known issues)
20	Group moving	To move all groups together hit <code>Strg+A</code> (to select all), and use the arrows, or arrow keys. If you hold down <code>Shift</code> whilst working the arrows, the setup is moved by panel-width (e.g. 32px per click, if a Phantom 30 project). Hit <code>Strg+A</code> again to resume normal operation.
21	Group centering	Now, left to the arrow buttons at the top, there is the centering button, which automatically centers the selected group relatively to the entire screen.
22	Upload without return	The long-awaited feature: now, in the Show_Serial dialog, and in the Upload dialog, you can select or de-select Wait Answer – and both functions work without return line connected (if that option is de-selected in the Show_Serial dialog, it's inactive in the Upload dialog)
23	Project portability	Now, project files can be freely copied to any other computer/location, without weird error messages.
24	Selective upload	For minor changes in a complex setup, in the Upload dialog, you can select individual groups to be uploaded.
25	Colour changes	For better usability, some colours were changed (the text in the top is now black, and successfully uploaded panels in Group_Edit are light-green)
26	Close dialogs with ESC	For better usability, dialogs can be closed with ESC
27	Upload terminate	Upload – as well as Show_Serial – can be safely closed now.
28	Get Serial Number	A feature none needs except from us in the service dept.: now, this gives us 100 sec time to press the button...
29	Show serial range	The serial.dat is growing and growing... In order to make this more handy, simply type in the string ID of your set in the Show_Serial dialog

30	Minimize to taskbar	Now, the minimize button (top-right) works as like most people would expect. (Before, instead of minimizing the program to the taskbar, it toggled to a smaller interface, offering basic upload functionality.) However, the system alternatives are always present (e.g. Alt + Tab, or Win + D) to toggle to other programs or to your desktop.
31	End detect	Not exactly new, but I am sure almost none knew what this button does (neither me) – and by now, everything is re-checked: so far, after 'Show Serial Number', there were only two (known) ways to toggle the displays back to 'video' mode: uploading valid data (thus, you needed to define your project), or a power reset. Now, simply try 'End detect' (in the 'Show Serial' dialog): this will toggle all frames back to video mode, without uploading any data.
S-Drive 2 – Variable Cropping		
32	Set screen resolution	In Properties, now you can define the screen resolution (the size of the 'black rectangle' in mmdisp), either numerically, or from a drop-down-list. This is required for accurate center calculation.
33	Variable Cropping	This is required for all S-Drive 2, to program the cropping area. Simply click the 'Cropping' button (right to the 'Zoom' drop-down-list), and the cropping area will be calculated, displayed, and uploaded
34	1 px shift/border problem	Not exactly software-related, but worth mentioning here: the new S-Drive 2 also solves the problem of the unusable leftmost and rightmost pixel (resulting in both: only 638 px usable, and 'center' button not working accurately). Please note that this is fixed now <b>for S-Drive 2 only</b>
Known Issues		
<p>Like in any other software, there might always happen unexpected things. In any case, any feedback to <a href="mailto:Sebastian.beutel@g-lec.com">Sebastian.beutel@g-lec.com</a> is highly appreciated.</p> <p>Furthermore, there are some minor things already known, but either too complicated to fix on short notice, or requiring more testing. We're convinced the software now is the best so far, more stable and usable than any version in the past, and again appreciate all comments.</p>		
35	Group move with keyboard	Actually, only every third keystroke works. Nasty thing...
36	Gamma upload with apple computers and virtualized Windows	Users reported problems when uploading gamma values from apple computers. For this issue, any feedback is highly appreciated!!! So far we know: <ul style="list-style-type: none"> <li>- it's an issue with USB, i.e. how USB is forwarded to the virtual windows box</li> <li>- maybe, or maybe not, the updated USB driver fixes this</li> <li>- problems occur only with virtualized windows (VMWare Fusion, Parallels Desktop); when Windows is running natively (Bootcamp), it's reported to work correctly</li> </ul> Anyone who uses G-Lec mmdisp and Apple computers is highly encouraged to help us finding a solution for this.
37	Windows UAC	See item 5. We're working on the entire program structure, to finally solve this. At the moment we cannot recommend to install mmdisp into the %program files% folder on Windows Vista/Windows 7 machines. The program will work – but location of the used properties (mmdisp.ini), serial.dat, and projects, will be somewhere in the 'compatibility files'. Really weird.
38	Program skin	In the rare condition that you changed your display settings, DPI settings, to 120dpi or more (usually on small hi-res display), the program looks a bit strange, but functions anyway. This will take a little longer to fix (re-design the surface structure)
39	Groups stuck when placed to -1 (H/V)	It's possible to move groups to -1 horizontally (left) or vertically (top). In that case, the group can be re-positioned only by dragging with the mouse. The arrows don't work. This will be fixed soon.
40	VC on/off not yet stored in project	Actually, the information whether an S-Drive 2 is used (and thus Variable Cropping selected) is not yet stored in the project file.
41	Device selection not yet stored in project	The information which device (which panel) was selected is not yet stored in the project, which might cause confusion in the rare condition of operating a couple of different setups simultaneously. We will change this in the future.