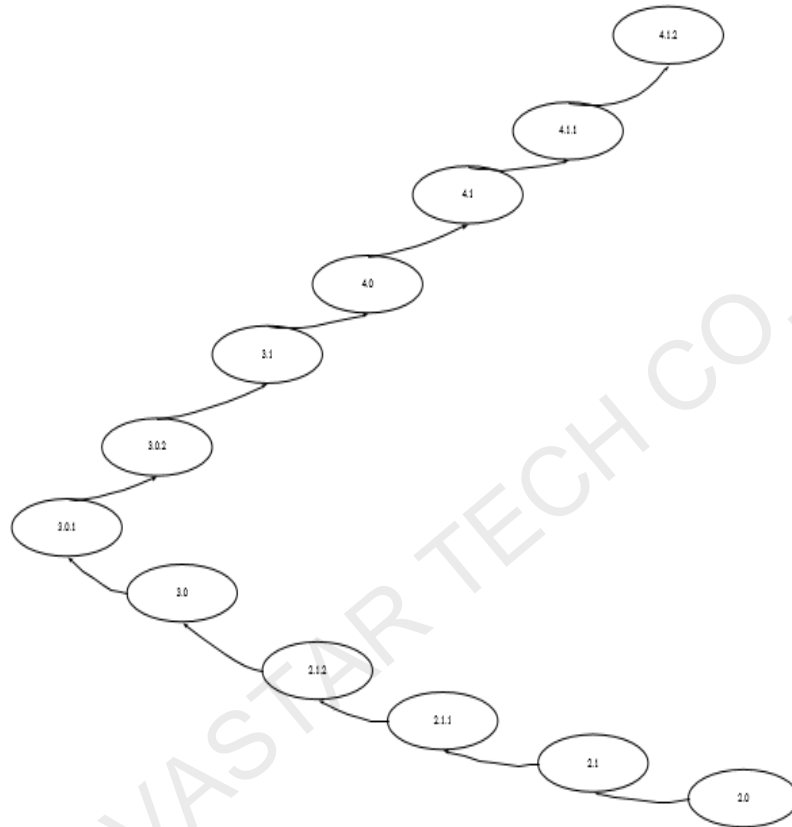# Update Description

NovaCLB-Cabinet

Rev4.1.2   NS140100016

1 Roadmap

2 Main updates of every version (compared with previous version)

Version & Release Date	V4.1.2 2019-12-13	
Updates	New Features	1. Optimized the calibration process to improve the overall calibration efficiency (working with NovaLCT V5.2.1 and later).
		2. Optimized the phenomena that the software gets stuck during operation after a large project file is imported.
		3. Improved the efficiency of saving database during calibration.
	Bug Fixes	1. The images at the edges are brighter after calibration.

		2. The images at the edges are discontinuously brighter after calibration.
		3. The calibration coefficients are lost occasionally after power off and then power on if **Save module ID** is selected.
		4. The calibration software cannot be opened after the .net framework is updated.
Written By	Li Yang	
Version & Release Date	V4.1.1　2018-11-16	
Updates	New Features	1. Optimized the saturation adjustment module for the C1200.
		2. Increased the resolution of the image that can be collected by the C1200 each time to 480×330 (W×H).
	Bug Fixes	1. Fixed the problem that simulation becomes abnormal after the NovaCLB-CabSolver generated the common parameters again.
Written By	Hui Huahua	
Version & Release Date	V4.1　2018-08-03	
Updates	New Features	1. Add the absolute calibration function (C1200 camera) which improves the calibration effect of cabinets with obvious brightness and chroma difference;
		2. Support calibration of irregular cabinets (triangle, circular, fan-shaped, hollow, etc.);
		3. Add the function of uploading coefficients stably;
		4. Support statistics of cabinet calibration time.
	Bug Fixes	1. Solve the problem of unreasonable edge correction factors;
		2. Solve the problem that there is no response after the NovaCLB-CabSolver is started or it cannot be started.
Written By	Zhang Ze	
Version & Release Date	V4.0　2016-11-11	
Updates	New Features	1. Supporting calibration with industrial camera Caliris;
		2. Supporting writing module ID into module flash;
		3. Supporting colorimeter CS150 online calibration.
	Bug Fixes	1. Solving the problem that the simulation diagram is not updated after the ID modification on the tool 'NovaCLB-CabSolver'.
Written By	Ruitao Zheng	
Version & Release Date	V3.1　2016-06-02	
Updates	New Features	1. New function of calibrating new modules which have replaced the old or broken ones;
		2. Supporting automatic calibration of one cabinet with multiple cards;
		3. New function of solidifying receiving card parameters;
		4. New function of audio prompt while setting abnormal cabinets;

		5. Supporting writing ID of receiving card into receiving card.
		6. Optimization of part of the functions;
	Bug Fixes	1. Solving the problem of unable to quickly preview calibration results
Written By	Yin Lei	
Version & Release date	V3.0.2　2016-03-03	
Updates	New Features	1. Supports Korean
	Bug Fixes	
Written By	Yin Lei	
Version & Release date	V3.0.1　2015-11-20	
Updates	New Features	
	Bug Fixes	1. Amend the problem that targets may change after the first cabinet correction when in supplementary order mode;
		2. Modify the target set limit method, the brightness can be set to a high value;
		3. Solve the problem of database is not compatible;
		4. Solve the software exception when change the location of the colorimeter if the computer has no E disk.
Written By	Yin Lei	
Version & Release date	V3.0　2015-05-20	
Updates	New Features	1. Support mixed assembling cabinet calibration;
		2. Support check the whole color distribution on the color gamut graph after data collection;
		3. Add checking the calibration effect quickly without upload the coefficients to the scan boards.
		4. Optimizing the calibration targets setting process;
		5. Optimizing the sorting way of cabinet number on the 'Calibration Record' page.
		6. Add automatically numbering cabinets when calibrating;
		7. Support choose collected images' save address;
		8. Data analysis and processing tool support change correct mode to recomputed coefficients;
		9. Data analysis and processing tool support modify coefficients;
		10. Add the tool that change cabinet database into full screen database.
	Bug Fixes	1. Individual camera connection exception;
		2. Cannot find the authorized dog after using a third-party software to clear the memory.
Written By	Yin Lei	
Version & Release date	V2.1.2　2015-04-17	

Updates	New Features	1. Support modify basic unit rows or columns manually, when calibrate high resolution box.
	Bug Fixes	1. Amend the gradient-phenomenon of the sixth box when tipsily correct or the box's brightness has gradient-phenomenon. 2. Amend the phenomenon that it cannot save the data properly after generating forcibly public parameters.
Written By	Yin Lei	
Version & Release date	V2.1.1 2014-12-23	
Updates	New Features	
	Bug Fixes	1. Amend the phenomenon of notice that target color gamut cannot be achieved when loaded target file and start correct; 2. Amend the phenomenon of unsatisfactory correction effect when using the public parameters; 3. Amend the phenomenon of the software stuck when saving to database and start correct; 4. Amend the phenomenon of load large database slow; 5. Amend capture the display after correction may occur when correct.
Written By	Yin Lei	
Version & Release date	V2.1 2014-11-12	
Updates	New Features	1. Support high resolution cabinet calibration; 2. Support the 70D camera online calibration; 3. Using new type database whose speed of reading and writing increases by 90 percent; 4. Support more than one authorization; 5. Optimize the saturation automatic analysis function, when the analysis result is normal, assurance the calibration effect better; 6. New function of database backup, preventing data loss caused by interruption of power supply or exception of operation system; 7. New function of forced generation of common parameters, preventing no generation of common parameters caused by cabinet problem; 8. New function of writing the cabinet ID into the cabinet receiving card; 9. New function of calibration target evaluation, checking the reasonability of target set up; 10. Common color gamut tool can delete information of all batches; 11. Other functions are adjusted to improve the usability of software.
	Bug Fixes	1. Amend the phenomenon of the measurement stuck by color exchange during light gun online measurement; 2. Amend the phenomenon of the target change caused by function interface switch after the original value of light gun online

		measurement;
		3. Amend the phenomenon of the color temperature not updating after enabling color temperature, adjusting target value and clicking apply;
		4. Amend the phenomenon of the software stuck when common parameter repairing isn't completed and calibration is enabled.
		5. The problem of unable to export data caused by no Office installed is solved;
Written By	Yin Lei	
Version & Release date	V2.0.0 2014-07-02	
Updates	New Features	1. CS100A and CS2000 online correction is available; 2. Bar code gun is newly added to scan box ID and automatic start correction; 3. Correction coefficient can be written in lamp panel flash and verified for its correctness; 4. Before modification, the database is created for establishment of the new project, to avoid the users covering the previous box database when they are establishing the new one; 5. Color temperature adjusting function is newly added for the target value setting function; 6. Tools for computing color gamut are newly added; 7. Integrated database management platform; 8. User can manually modify edge parameters of the box and adjust the bright and dark lines for box splicing; 9. After correcting the 10 boxes, original value, target value, edge correction parameters cannot be modified to avoid abnormality of correction effect of boxes of the same batch caused by modification during the correction process; 10. Display screen will show a blank screen after the correction coefficient is adjusted and uploaded to avoid undesirability of correction effect due to the inconsistency of lighting-up time of the boxes; 11. Information of original chroma, target chroma can be imported into the documents of multiple batches exported by the LCT software; 12. The screen brightness can be adjusted manually during colorimeter online correction; 13. Reasons for re-correction of boxes required are more specifically indicated; 14. Blank screen is added in the screen testing function; 15. The current correction if necessary re-calibration, the software will prompt the notice; 16. Decimals can be entered by adjusting the light point spacing;

		17. Other functions are adjusted to improve the usability of software.
	Bug Fixes	1. Amend the phenomenon that the software is stuck during the correction resulted from using USB extension cord to connect with the camera; 2. Amend the phenomenon that the "Image capture colors do not match" indicated when images are captured by cameras on some of the XP computers; 3. Amend the phenomenon that blue points appear on the display screen when brightness is being corrected; 4. Amend the phenomenon that the number of dead lamps are not correctly indicated; 5. Amend the phenomenon that software gets a little stuck when the correction is activated.
Written By	Yin Lei	

3 Compatibility

Lamp panel flash	Synchronizing system NovaLCT-Mars	Supported version: V4.3.1 or above V3.2.2 CTM8.0.0
		Unsupported version: Others
Write in cabinet ID	Synchronizing system NovaLCT-Mars	Supported version: V4.2.2 or above
		Unsupported version: Others
Upload Coefficients use NovaLCT-Mars	Synchronizing system NovaLCT-Mars	Supported version: V4.2.4 V4.3.2 or above
		Unsupported version: Others
Automatic calibration of one cabinet with multiple cards; Solidification of receiving card parameters	Synchronizing system NovaLCT-Mars	Supported version :Above V4.5 Writing module ID is supported by the cabinet with only 1 receiving card.
		Unsupported version: Others