

NovaLCT

V5.6.1



Release Notes

Contents

Contents	i
1 Update Instructions	1
1.1 Online Update	1
1.2 Local Update	1
2 Newly Supported Chips	1
3 New Features	1
3.1 Newly Supported Device	1
3.2 Screen Configuration	2
3.2.1 Smart Matching of Firmware Package from the Cloud and Updating Receiving Card	2
4 Improvements	4
4.1 Screen Configuration	4
4.1.1 6-LED Mode Option for Virtual Mode	4
4.2 Program Update	4
4.3 Multimedia Player Login	5
5 Bug Fixes	6
5.1 Smart settings	6
5.2 Gamma Adjustment	6
5.3 Calibration	6
5.4 Test Tool	6

1 Update Instructions

1.1 Online Update

Step 1 From the menu bar, choose Help > Online Update.

0 NovaLCT V5.6.0.D4	-(Demonstration Mod	e)				_		×
System(S) Settings	s (C) Tools(T) F	lug-in (P)	User(U) Lan	guage(L)	Help(H)			
Cloud Monitoring S Local System Informat Control System	Screen Configuration tion	Brightness Dther Device	Calibration	Screen C	User Manual(D) Update Log (U) About(A) Online Update Online Support Export Log		•	F
Service Status: Service	eversion:test							

Step 2 Click OK.

A new version is available. Update now?
OK Close

1.2 Local Update

- Step 1 Visit the "Downloads" page on the NovaStar website and download the NovaLCT V5.6.1 installation package.
- Step 2 Double-click to open the package and proceed with the installation.

2 Newly Supported Chips

The following chips are now supported: SM16208, ICND1065L, CFD655, C8365, DP3367S, HX8932.

3 New Features

3.1 Newly Supported Device

The AD20 multimedia player is now supported. Users can log in through Media Player Login to access its features



3.2 Screen Configuration

3.2.1 Smart Matching of Firmware Package from the Cloud and Updating Receiving Card

Reason for Change

To ensure optimal display performance, update the appropriate firmware based on the receiving card configuration. This ensures that the receiving card settings and firmware are properly matched.

Function Descriptions

Two update methods are available: cloud update and local update:

	Beesiving Coord	0 0 1			
ending Card	Receiving Card	Screen Connection			
Module Inf	ormation	0	40145-011	0 T 4/0	
Chip:	MBI503	36 Size:	16W×8H	Scanning lype 1/2 scan	
Direction:	Horizor	ntal Data Group	is 2	Adjust RG	Спеск м
Cabinet Inf	formation				Set Potation
O Regula	ar				Gerrotation
O regule				() megular	
Width	(Pixel)	<=256		Width: ?? Height: ??	
Height	(Pixel)	<=128	- 11- 1-1-		
Module	e Casc Fro	m Right to Left	n Update	abinet	
		Choose	e an upd		
Performan	ce Settings				
Data G	Froup E	lore Settings	ud Update the receivi	ng card based o	Send Perform
Refresh I	Rate 960	~			^
Grayscal	e Level Norm	nal 4096 🗸			
Grayscal Shift Cloc	e Level Norm ck Fre 12.5	nal 4096 ~	al Update Load firmwa	re package locall)%	
Grayscal Shift Cloc Phase P	e Level Norm ck Fre 12.5 osition 2	al 4096 ~	al Vpdate Load firmwa	re package locall	
Grayscal Shift Cloo Phase Po Row Blar	e Level Norm ck Fre 12.5 osition 2 nking 25	ual 4096 ✓ ✓ ✓	al Update Load firmwa	re package locall)%	
Grayscal Shift Cloo Phase Pe Row Blar Line Cha	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3	hal 4096 ∨ ∨ ÷ (0~1)	al Update Load firmwa	re package locall)%	
Grayscal Shift Cloo Phase Po Row Blar Line Cha Minimum	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3 1 OE w 328 r	aal 4096 ✓ ✓ ♦ ♦ (0~1/)	al Update Load firmwa	re package locall)%	
Grayscal Shift Cloo Phase Po Row Blar Line Cha Minimum Brightnes	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3 n OE w 328 r ss Effi 69.01	al 4096 ↓ ↓ ↓ ↓ ↓ (0~1/) 15 1%	al Update Load firmwa	re package locall)%	Ť
Grayscal Shift Cloo Phase Po Row Blar Line Cha Minimum Brightnes	e Level Norm ck Fre 12.5 osition 2 nking 25 in OE W 328 r ss Effi 69.01	al 4096 ↓ ↓ ↓ ↓ ↓ ↓ (0~1/) 15 1%	al Update Load firmwa	re package locall)%	v
Grayscal Shift Cloo Phase Po Row Blar Line Cha Minimum Brightnes	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3 n OE W 328 r ss Effi 69.01	aal 4096 ∨	al Update Load firmwa	re package locall)%	×
Grayscal Shift Cloc Phase Pi Row Blar Line Cha Minimum Brightnes	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3 n OE w 328 r ss Effi 69.01 ss Effi 69.01	aal 4096 ↓ ↓ ↓ ↓ ↓ ↓ (0~1/) 15 1%	al Update Load firmwa	re package locall) %	m Re. Send to Recei.
Grayscal Shift Cloc Phase Pr Row Blar Line Cha Minimum Brightnes	e Level Norm ck Fre 12.5 osition 2 nking 25 inging 3 1 OE W 328 r ss Effi 69.01 iettings Select	aal 4096 ↓ ↓ ↓ ↓ (0~1/) 15 1%	al Update Load firmwa	re package locall) %	m Re Send to Recei.
Grayscal Shift Cloo Phase Pr Row Blar Line Cha Brightnes Smart S Current	e Level Norm ck Fre 12.5 osition 2 nking 25 anging 3 a OE W 328 r ss Effi 69.01 iettings Select Receiving Select	aal 4096 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	al Update Load firmwa	re package locall) %	m Re., Send to Recei. Restore Facto

1. Cloud Update: Automatically matches the firmware package from the cloud based on the current configuration and updates the receiving card accordingly.

Screen Configuration-USB@Port_#	0004.Hub_#0001		- 🗆 ×
Sending Card Receiving Card Screen	Connection		
Module Information			
Chip: Common C	Size: 128W×64H	Scanning Type 1/32 scan	
Direction: Horizontal	Data Groups 2	Adjust RG	Check M
Cabinet Information			
			Set Rotation
Regular		O Irregular	
Width (Pixel) 128	=262	Width: ?? Height: ??	
Height (Pixel) 64	Lindate Notification	ust pe	
Module Casc From Right to	L	net	
Performance Settings	The receiving card fi	rmware does not matc	
Data Group E More Settin	The firmware package	has been matched for	Send Perform
Refresh Rate 240			^
Grayscale Level Normal 4096	DATA_A8s-N_V4. 8. 1.	D. zip Mainline Version	
Shift Clock Fre 25.0	O DATA_A8s-N_V4. 8. 0.	D. zip Custom Version	
Phase Position 2			
Row Blanking 25	Not Now	Update Now	
Line Changing 3	÷ (0~23)		
Minimum OE w., 80 ps			
Brightness Effi 68 75%			
			•
Smart Settings Select Program		Load from. Load from. Save to File Read from	Re Send to Recei
Current Receiving A8S-N_\	/4.7.0.0		Restore Facto
NCP Manage	Restore Syste Back Up Sys	te Export Screen M Save System Co	Close

2. Local Update: Loads local firmware package and updates the receiving card.

<u> </u>						
rogram loading						
Select the communicatio	n port for operation					
Communication port for the current operati	USB@Port_#0011.Hub_#0	001	✓ Device q	1	Reconne	ct
Program updating				_		
Program Pat					Browse	
Advanced				1	Update	
Extend the operation item						_
Read-back of recei				/		
read-back of recent.						
			/			
ardware Program Version	Information					
ardware Program Version	Information	Dutp 1 🚖 Recei.		Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 🔶 (Dutp 1 💽 Recei.	1 🗲 [Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 🔶 (Dutp 1 💽 Recei.	1 👘 [] Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 🔶 (Dutp 1 💽 Recei.	1 🚔 [Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 🔶 (Dutp 1 💽 Recei.	1 🚔 [] Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 🔶 (Dutp 1 💽 Recei.	1 💼 [] Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 💽 (Dutp 1 💽 Recei.	1 💼 [] Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1	Dutp 1 💽 Recei.	1 💽 [Refres	Refrest	h
ardware Program Version Refres O Refres	Information Sendi 1 文	Dutp 1 文 Recei.	1 💽 [Refres	Refrest	h
ardware Program Version Refres () Refres	Information Sendi 1 💓	Dutp 1 💽 Recei.	1 💽 [Refres	Refrest	h
ardware Program Version Refres () Refres	Information Sendi 1 🔹	Dutp 1 🔹 Recei.	1 💽 [] Refres	Refrest	h
ardware Program Version Refres Refres	Information Sendi 1 🔹	Dutp 1 🐳 Recei.	1 💽 [] Refres	Refrest	h
ardware Program Version Refres O Refres formation Console	Information Sendi 1 ਦ (Dutp 1 🕂 Recei.	1 💽 [] Refres	Refrest	h
ardware Program Version Refres O Refres formation Console	Information Sendi 1 🔹 (Dutp 1 🔅 Recei.	1 💽 🕻] Refres	Refrest	'n
ardware Program Version Refres O Refres Formation Console	Information Sendi 1 ਦ (Dutp 1 🕂 Recei.	1 💼 [] Refres	Refrest	h
ardware Program Version Refres O Refres formation Console	Information Sendi 1 💽 (Dutp 1 文 Recei.	1 💽 [Refres	Refrest	n

4 Improvements

- 4.1 Screen Configuration
- 4.1.1 6-LED Mode Option for Virtual Mode

Reason for Optimization

To accommodate 6-LED sub-pixel modules, supports virtual mode settings.

Function Descriptions

Provides four directional options for the 6-LED mode (including vertical right, vertical left, horizontal up, and horizontal down), with support for drag-and-drop layout adjustments.



4.2 Program Update

Reason for Optimization

An integrated firmware package for HUB type receiving cards (DH and MRV series) has been released. It includes the programs for various models of receiving cards. Users can now use a single package to update multiple receiving card models, simplifying the process and improving efficiency.

Function Descriptions

When the integrated package for receiving cards is loaded, NovaLCT automatically matches the program package based on the receiving card model and the chip type selected by the user. As shown in the screenshot below, the match is successful:

odate Program		
Integrated Package		
Integrated Group_HUB75E_V1.2.1.0. zip		
Select Chip		
Driver IC: C8325 🗸 Browse	Decodin 🖁 for decodi	ng 🗸 Browse
Program P DATA_MRV416_V4.9.0.0		🗹 Au
		ta Caral
	Upda	Cancel

If the automatic match is not successful, users can manually select any program package and update the receiving card accordingly.

Integrated Group_HVB3	20_V1.0.0.0. rip	🛃 Select a send mode
elect Chip		All Receiving Cards
Driver IC: Please select	Browse Decodin Flease select V	Specified Receiving Card
ogram P DATA_NV3210_V1.0.	0.0	Sending Card
	Integrated Package	Etharpot Dart
	DATA_NV3210_V1. 0. 0. 0	
	DATA_MRV532_V1. 0. 0. 0	Dessition Cord
	DATA_NV3210_V1.0.0.17.B2	Receming Card
	DATA_MRV532_V1.0.0.17.B2	
	DATA_NV3210_V1.0.0.16.B2	OK Cancel
	DATA_NV3210_V1. 0. 0. 15. B2 🗸 🗸	
<	>	Specified broadcast data operating tips:
		Broadcast corrsponding values: sending card(256); Et

4.3 Multimedia Player Login

Function Descriptions

The multimedia player login process has been improved to automatically reconnect to the service when refreshing the terminal, ensuring devices are discovered and connected properly.

💋 NovaLCT V5.6.	Terminal List	×	-	\times
System(S) Set	Sort by name in descending O Sort by name in ascending			
Cloud Monitoring	Name			
-Local System Infor				
Control System				
- Monitor Informatior				
Consise Status: Cor	Refresh Connect System			 9
Service status. Ser				

5 Bug Fixes

5.1 Smart settings

Fixed the issue where NovaLCT would freeze after modifying the chip registers for the CFD555B chip in the smart settings and then opening the configuration file.

5.2 Gamma Adjustment

Fixed display abnormalities caused by the new gamma algorithm on screens using ICND1063, CNS7263, and DP3368 ICs.

5.3 Calibration

Fixed the issue where the option **Auto Upload Module Calibration Coef** was not selectable in the following two interfaces:

en Configuration-COM99	- 🗆 ×		
ting Card Receiving Card Screen Connection			
odule information			
Chip: MBI5036 Size: 16W×8H Scanning Typ	e 1/2 scan		
Direction: Horizontal Data G Additional Function	× Check M.	Screen Calibration	- U
Isolated Pixel Afterglow		Current Operation	Online Calibration Office Calibration Nativage Controlation Double Calibration Coefficients
Indicator Light of Rec Close	Set Rotation	Communication Part	Connect Survey Standing complicate Will Will Standing 1989
Begular Shorten the synchroni Enable		Current Screen	Current screen Starting containates of T-O Sinesiave ason
Brightness becomes Enable		(#) Screen 1	Full Select by pix Select by Topology Select aperat
Width (Pixel)	ight: ??		
Height (Pixel)			
Module Casc From Right to Left Auto Upload Module C Fina	ew Cabinet		
Calibrati Enable			
erformance Settings			
Data Group E. More Settings R: 0 0 R Coer 1.000 0	Send Perform		
Refresh Rate 960 Hz G: 0 0 G Coer 1.000 0	^		
B: 0 + B Coef 1.000 +		Settings of Displaying Image	Operate all pixels.
Shift Clock Fre. 125 MH	5-75194	Position to Display image:	
Note: some chips support		Device Response Time	
Delay Time of ABCDE Signals		100 🔅 ms	
ine Changing 2 (0.4 Delay of ABC signals: () Enable	~24)	Mandware Test Pattern	
leave of Using and the second se			
Minimum OE w		Enable/Disable Calibration	
anghtness Em 69.01% Delay time: 0 0 ns	~	O Brightnes. Low Gra.	
Apply		O Chroma	Flash Check Save Calibration Coeffic
Smart Settings	e to File Read from Re. Send to Recei	O Full-Grayse	Coef Tipe: Briedmans / v SPI Bit Rate L 3 v Rate Upload Module Save to Hit
		Dark er	
	Contract of the second s		

5.4 Test Tool

- 1. Fixed the issue where the Test Tool would show a completely white screen when extending the display.
- 2. Fixed the issue where the Test Tool could not display test patterns when logging in as



multimedia player.

When logging in as multimedia player, NovaLCT will default to the old version of the Test Tool to ensure the test pattern displays correctly.

💌 Test	Tool of LED	Screen-Novasta	r				_		×
Window	Pure Color	Gradual Change	Grid Orientation	Help					
C	🕽 Red	🔵 Green	• Blue	🔿 White	<mark>0 ¥ell</mark>	ow O Cyar	n P	uple	
۲) Manual	Grayscale	<	2	255 🔹				
C) Automatic	Speed	<	>	86 C	urrent Gr 0	÷	Start	
	10.01								



Copyright © 2024 Xi'an NovaStar Tech Co., Ltd. All Rights Reserved.

No part of this document may be copied, reproduced, extracted or transmitted in any form or by any means without the prior written consent of Xi'an NovaStar Tech Co., Ltd.

Trademark

NOVASTAR is a trademark of Xi'an NovaStar Tech Co., Ltd.

Statement

Thank you for choosing NovaStar's product. This document is intended to help you understand and use the product. For accuracy and reliability, NovaStar may make improvements and/or changes to this document at any time and without notice. If you experience any problems in use or have any suggestions, please contact us via the contact information given in this document. We will do our best to solve any issues, as well as evaluate and implement any suggestions.

Official website www.novastar.tech

Technical support support@novastar.tech