Version Upgrade Instructions on the Pluto System

Instructions:

The major version is the released unified version, including four minor versions, which give priority to the PlutoManager version.

Upgraded Version	Publishing Time	Revision and Addition	Compatibility with Previous Versions
Major Version: V5.1.0 Minor Versions: PlutoManager: V5.1.0 PlutoSite: V5.1.0 NovaLCT-Pluto: V5.1.0 Versions of PlutoSystem PlutoSystem(PSD100) V5.1.0 PlutoSystem(X65) V5.1.0 PlutoSystem(PBOX150) V5.1.0 PlutoSystem(PSD80) V5.0.1	2017.7.18	**1. Revision** 1) The problem of unable to play the weather of China. 2) Fix the problem that the playback is lagging after playing the playlists with multiple pages for a period of time. 3) Fix the problem that the green light of FPGA is off after X65 or X60 is started.	
Major Version:V5.0.3 Minor Versions: Version of PlutoManager:V5.0.3	2017.4.12	**1. Revision** （1）Remove the restriction on file size while upgrading font library of the PlutoManager.	

Version of PlutoSite:　V5.0.3 Version of NovaLCT-Pluto: V5.0.2 Version of PlutoSystem: PlutoSystem(PSD100) V5.0.1 PlutoSystem(X65) V5.0.1 PlutoSystem(PBOX150) V5.0.1 PlutoSystem(PSD80) V5.0.1			
Major Version: V5.0.2 Minor Versions: Version of PlutoManager: V5.0.2 Version of NovaLCT-Pluto: V5.0.2 Version of PlutoSite: V5.0.2 Version of PlutoSystem: PlutoSystem(PSD100) V5.0.1 PlutoSystem(X65) V5.0.1 PlutoSystem(PBOX150) V5.0.1	**2017.4.1**	**1. Revision** 1）Solve the problem including terminals reboot and parameters loss caused by setting brightness adjustment parameters on NovaCloud. 2）NovaLCT-Pluto solves the problem that modules of ICN2038 chips cannot display normally. 3）NovaLCT-Pluto solves the problem that modules of ICN2053 chips cannot display normally. 4）PlutoManager solved the problem that symbol "&" cannot be entered on the **Sign** list editing page.	

PlutoSystem(PSD80) V5.0.1			
Major Versions:V5.0.1 **Minor Versions**: PlutoManager Version:V5.0.1 NovaLCT-Pluto Version:V5.0.1 PlutoSite Version:V5.0.1 PlutoSystem: PlutoSystem(PSD100) V5.0.1 PlutoSystem(X65) V5.0.1 PlutoSystem(PBOX150) V5.0.1 PlutoSystem(PSD80) V5.0.1	**2017.2.13**	**1.Revision** (1)Reboot terminals after they are registered to the server of NovaiCare, then terminals on the server of NovaiCare are always offline;	
Major Versions:V5.0.0 **Minor Versions**: PlutoManager Version:V5.0.0 NovaLCT-Pluto Version:V5.0.0 PlutoSite Version:V5.0.0 PlutoSystem: PlutoSystem(PSD100) V5.0.1 PlutoSystem(X65) V5.0.1 PlutoSystem(PBOX150) V5.0.1 PlutoSystem(PSD80) V5.0.1	**2017.1.10**	**1. Additions** (1) Sign list interface supports both Korean and Hindi; (2) PlutoManager supports the operation to select the NovaiCare server IP addresses; (3) PlutoManager supports Dutch; (4) PlutoManager supports single network card-to-multiple IP addresses; (5) PBOX150 supports the button-controlled switching; **2. Optimizing** (1) Optimize the display network connection; **3. Revision** (1) Revise the problem that weather information cannot be displayed; (2) Revise the problem that the PSD100 main board cannot display; (3) Revise the problem related to NovaiCloud supporting; (4) Revise the problem related to NovaiCare supporting； (5) Revise the problem about asynchronous card reboot	

		occurred in the process of character display; (6) Revise the problem about the LED display blackout in case of emergency insert play; (7) Revise the problem about the failed asynchronous card caused by test pattern modification in the process of video playing; (8) Revise the problem that only one transparent window is available while two are required after X65 reboot; (9) Revise the problem that the scrolling text play speed of PSD100 and that of both X65 and PBOX150 are not the same; (10) Revise the problem that NovaLCT-Pluto and PlutoManager are available by searching but cannot be connected; (11) Revise the problem that the asynchronous card cannot communicate with the screen after a long-term running; (12) Revise the problem that PSD100 main board loading and receiving card loading are not synchronous; **4. Deleted Contents** (1) Delete the automatic IP changing function of the asynchronous card; (2) Delete NovaiCloud and NovaiCare server parameter configuration function of NovaLCT-Pluto.	
Major Versions:V4.6.0 **Minor Versions**: PlutoManager Version:V4.6.0	**2016.3.22**	**1. Additions** (1) Support X130; (2) Support PBOX110; (3) Support PSD80; (4) Support the synchronic	

NovaLCT-Pluto Version:V4.6.0 PlutoSite Version: V4.6.0 PlutoSystem : PlutoSystem(PSD100)V4.5.2 PlutoSystem(X65) V4.5.2 PlutoSystem(X130)V4.5.4 PlutoSystem(PBOX110) V4.6.0 PlutoSystem(PSD80)V4.6.0		switching between audio and video of X65; (5) Support search configuration: when the terminal receives the search command for the first time, whether IP can achieve self-adaptation; (6) Support the running with administrator privileges by default after double clicking PlutoManager; (7) Support the running with administrator privileges by default after double clicking NovaLCT-Pluto; **2.Optimizing** (1) Sign interface text display; (2) Network search automatic connection mechanism; (3) HDMI recognition mechanism for optimizing X65. **3.Revision** Problems that China's weather would not be displayed;	
Major Version:V4.5.3 **Minor Versions**: PlutoManager Version:V4.5.3 NovaLCT-Pluto Version:V4.5.3 PlutoSite Version: V4.5.3 Android Phone APP: NovaSign V1.0 PlutoSystem Version: PlutoSystem(PSD100)V4.5.2 PlutoSystem(X65) V4.5.2	2015.12.10	**1: Additions** (1) Support smart brightness adjustment; (2) Support advanced settings of automatic brightness; (3) Add count up and count down to the timer media in edit playlist; (4) Add Canada to the weather media; (5) Add "Delete" key to the character editor in Sign list; **2: Optimizing** (1) The translation of character strings in the software; (2) The mechanism of search automatic connection;	

		3: Revision (1) The characters can not be fully displayed in some types of fonts; (2) Some RSS web pages can not be played;	
Major Version:V4.5.2 **Minor Versions**: PlutoManager Version:V4.5.2 NovaLCT-Pluto Version:V4.5.2 PlutoSite Version: V4.5.2 Android Phone APP: NovaSign V1.0 PlutoSystem Version: PlutoSystem(PSD100)V4.5.2 PlutoSystem(X65) V4.5.2	**2015.9.2**	**1: Optimizing** (1) Optimized English translation for software; **2: Revision** (2) Display will can not communicate with Cloud server, afer configuring the address of Cloud server when the language is non-chinese;	
Major Version:V4.5.1 **Minor Versions**: PlutoManager Version:V4.5.1 NovaLCT-Pluto Version:V4.5.1 PlutoSite Version: V4.5.1 Android Phone APP: NovaSign V1.0 PlutoSystem Version: PlutoSystem(PSD100)V4.5.2 PlutoSystem(X65) V4.5.2	**2015.8.17**	**1: Additions** (1) Support configuration input source of X65/60 Box; **2：Optimizing** (1) Optimized English translation for software; **3：Revision** (1) Revise the problem that point detect exception when the chip is 5036; (2) Revise the problem that NovaLCT-Pluto search successful, but the connection failed; (3) Revise the problem that NovaLCT-Pluto search failed; (4) The word in editing area will be lost when the height of window and font size of	

		combine text are identical; (5) Sign list will be exception when the media is picture with overlay text; (6) The combine text will be not transparent when you open the sign list with transparent combine text;	
Major Version:V4.5.0 **Minor Versions**: PlutoManager Version:V4.5.0 NovaLCT-Pluto Version:V4.5.0 PlutoSite Version: V4.5.0 Android Phone APP: NovaSign V1.0 PlutoSystem Version: PlutoSystem(PSD100)V4.5.0 PlutoSystem(PCC80) V4.5.0	**2015.6.17**	**1: Additions** （1） Support Program production and transmission on the Android phone APP （2） PlutoManager and NovaLCT-Pluto support upgrading online; （3） Support some media background transparent; （4） Support GIF file playing; （5） Support Network messages (RSS); （6） Support Daylight Saving Time (DST); （7） Support NovaCloud and NovaiCare; （8） Sign media support the customized border; （9） Flash increase the broadcast time; （10） When program being sent, it support upgrading the unsupported fonts automatically; （11） Transparent text overlaying pictures and video support the alignment （12） Temperature and humidity media support decimal displayed and temperature compensation; （13） Digital clock and analog clock support Jet lag;	**Compatibility** (It suggests supporting the use of software，otherwise, this version added some new functions can't be used normally.)

		（14） The temperature support Fahrenheit and Celsius switch;	
		（15） Static Text support Vertical Alignment;	
		（16） Media support more effect;	
		（17） Sign support adding media with dragging;	
		（18） Sign support adding multiple Files;	
		（19） Sign support customized window layout;	
		（20） PlutoManager support Controlling LED screen regular boot and shutdown	
		（21） PlutoManager support changing the default background of displays;	
		（22） PlutoManager support the program lists with media;	
		（23） PlutoManager support Spanish language and Traditional Chinese source;	
		（24） NovaLCT-Pluto support row line detection within 20 groups of data;	
		（25） New additional Driver IC: MBI5122 、 MBI5124 、 MBI5151、 MBI5152 、 MBI5153 、 MBI5155、 MBI5166 、 MBI5266 、 MBI6023、 MBI6030 、 MY9163 、 MY9221、 MY9262、MY9868、RT5924、	

		SM16136 、 SM16158 、 SUM2028、 SUM2032 、 TLC5929 、 TLC5958	
		（26） NovaLCT-Pluto calibration: support SQlite data library;	
		（27） Support more resolution: 1120*500 ， 704*800 ， 904*640	

2：Optimizing

（1） Optimize the procedure of which

program edited converted and

sent;

（2） Optimize the interface layout of Sign;

（3） Optimize the parameters sent

When single card selected of NovaLCT-Pluto

（4） Optimize the networking of asynchronism card,IP configuration is needless;

（5） Optimize the main interface layout of PlutoManager;

（6） Optimize the schedule scan of Sign.

3：Revision

（1） Revise the problem that time of controller is reset to 2006.

（2） Revise the problem that media of controller lost.

（3） Revise the problem that files of controller damaged.

（4） Revise the problem that controller being slow in boot-up when not connected to the Internet.

（5） Revise the problem

		software connected abnormally affected by firewall. （6） Revise the problem that Weather Forecast acquisition failure. （7） Revise the problem that to get the network time according Net failure.	
Major version:V4.4.0 Sub-software versions**:** PlutoManagerversion: V4.4.0 NovaLCT-Pluto version: V4.4.0 PlutoSite version:V4.4.0 PlutoSystem version: PlutoSystem(PSD100)V4.4.1	**2014.6.30**	**1:Additions:** (1) Add an editing window for Sign program (2 Add media border effects (3) Add simplified text media (4) Play the onboard temperature and humidity sensor (5) Support online upgrading of multi-font files (6) The PCC80 supports online upgrading hardware program (7) Add the whole installation package. It contains the NovaLCT-Pluto and the PlutoManager (8) Add choices of the module color function on the point detect window (9) PlutoManager supports resources in Japanese **2: Optimizing:** (1) Optimize program editing, conversion and sending (2) Optimize the play effect of temperature and humidity (3) Optimize the view function of the desktop screenshot (4) Optimize network connections of the asynchronous cards (5) Optimize the play effect of analog clock (6) Optimize the software language in English (7) Optimize the problem of abnormal identification of USB disk	**Compatible** (You are recommended to use the sub-software in the versions listed in the **Upgraded Version** column. Otherwise, some new functions of the version cannot be normally used.)

		(8) Optimize PSD100 loading area	
		3:Revision: (1) Revise the problem of failure in media conversion among different countries (2) Revise the problem of failure in media conversion among different countries (3) Revise the problem of appearing desktop backgrounds in a long-term playing of the asynchronous cards (4) Revise the problem of gaining a wrong time after starting daylight saving time (5) Revise the problem of abnormal saving of the correction data (6) Revise the problem of jump every 5 minutes in playing when the network cable is not connected (7) Revise the problem of abnormal play by the screen when the temperature is a negative value	
Major version:V4.3 Sub-software versions: PlutoManagerversion: V4.3 NovaLCT-Pluto version: V4.3 PlutoSite version:V4.3.0 PlutoSystem version: WE60_101105_V4.3.0	2014.2.22	**1:Additions:** (1) Video, picture superimposed transparent static text (2) Manual, timing, automatic brightness adjustment (3) Asynchronous cards onboard wifi configuration (4) Synchronous play configuration (5)Asynchronous card connection parameters, authorization password, time synchronization mode configuration. (6) Set network time or computer time to asynchronous cards. **2: Optimizing:** (1) Optimize the single window, double window of video play quality. (2) support more video formats (3) Optimize the scrolling text play speed and play quality (4) Optimize media published	**Compatible** (You are recommended to use the sub-software in the versions listed in the **Upgraded Version** column. Otherwise, some new functions of the version cannot be normally used.)

		transmission speed and security	
		3:Revision::	
		(1) When editing text font size is calculated by pixels.	
		(2) The issue of Static text cannot be played in different countries.	
		(3) The issue of screen display red when the asynchronous card restarts.	
		(4) The time losing issue of asynchronous card.	
		(5) The left and right sound channel is played error issue for the asynchronous card.	
		(6) The issue of lacking storage space for the asynchronous cards	
		(7)The issue of camera collects image failed when correcting problems.	
Major version: V4.2 Sub-software versions: PlutoManagerversion: V4.2 PlutoSite version: V4.2 NovaLCT-Pluto version: V4.0.4	2013.10.15	**1. Addition:** (1) Remote restart; (2) PlutoManagersetting the IP addressof asynchronous card ; (3) Font library upgrade; (4) Service pack upgrade; (5) Language update; (6) Support of the PSD100 cascade receiving card to 28 arrays; (7) Support of the PSD100 cascade receiving card to serial lamp panel; (8) Multi-screen configuration; (9) Power management of PSD100 board card **2. Revision:** (1) In the PlutoMbroadcasting management window, the acquisition time of page information does not change after the currently played information is successfully read. (2) The asynchronous card is set to the sending mode or relay. The window size changes to 0 after the	**Compatible** (You are recommended to use the sub-software in the versions listed in the **Upgraded Version** column. Otherwise, some new functions of the version cannot be normally used.)

		hardware program is updated, and the terminal becomes abnormal after the broadcasting scheme is sent.	
Major version: V4.0 Sub-software versions: PlutoManager version: V4.0 PlutoSite version: V4.0 NovaLCT-Plutoversion: V4.0.3	**2013.6.19**	**1. Addition:** (1) Media display of temperature and humidity; (2) Firmware upgrade; (3) Sending card mode; (4) The PSD100 card supports data array exchange, special-shaped box and color rendition; (5) The server building scheme is added. **2. Revision:** (1) The software becomes abnormal when an incorrect license file is imported; (2) The problem that parameters cannot be saved when the box load is heavy has been resolved; (3) The screen goes blank when images are being captured during video playing.	**Compatible** (You are recommended to use the sub-software in the versions listed in the **Upgraded Version** column. Otherwise, some new functions of the version cannot be normally used.)