2015

NovaPro HD User Manual

V1.2.0

XI'AN NOVASTAR TECH CO., LTD 2015/1/29



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Safety statement

Please use this equipment according to the stipulations to avoid possible dangers. In the case of any damage, non-professionals shall not open and repair it without authorization and you shall timely contact after-sales department of this company.

High voltage

Processor has high voltage and non-professional maintenance personnel shall not open the rear cover to avoid danger.

Warning

- 1) Water is strictly prohibited to drop or splash on this equipment and any object containing liquid is strictly prohibited to be placed on this equipment;
- 2) Keep this equipment away from fire sources to prevent fires;
- 3) When this equipment has abnormal sound, smoke or abnormal smell, power plug shall be immediately pulled out;

Notice

- 1) Please carefully read this instruction before use and properly keep it for use later;
- 2) If there is lightning or it is not used for a long time, please pull out the power plug;
- 3) This equipment is not suitable for operation and debugging by non-professionals and users must accept guidance from professionals;
- Do not inset any object from vent hole of this equipment to avoid equipment damage or electric shock;
- 5) This equipment shall not be placed in the places near water or other wet places

for use;

- This equipment shall not be placed on cooling fins or in other places with high temperature for use;
- 7) Please properly tidy and place power lines to avoid damage;
- 8) In the case of occurrence of the following circumstance, power plug of this equipment shall be pulled out and repairing shall be entrusted:
 - a) When liquid splashes into this equipment;
 - b) When this equipment falls or the case is damaged;
 - c) When this equipment obviously has abnormal function or change of performance.

Please carefully read the above precautions. If personal safety problem or product damage is caused due to misoperation because you do not follow this instruction, this company will assume no liability!

1 General

The NovaPro HD is a professional LED display controller. Besides the function of display control, it also features in powerful front end processing, so an external scalar is no longer needed. With professional interfaces integrated, NovaPro HD meets the requirements of broadcast industry, in image quality and in control.

- 1) The inputs of the NovaPro HD include CVBS, VGA, SDI, DVI, HDMI and DP. They support input resolution up to 1080p@60Hz. Highest pixel clock is 165MHz. Output bandwidth is up to 4GBit. Advanced de-interlacing motion adaptive processing technology is adopted so that images are clear and fine. And with HDMI, the gray scale depth can be up to 12bits. Each input can be fully configured with contrast, brightness, hue, saturation, and RGB gain. Inputs can be scaled up or down to fit the LED display resolution.
- 2) Computer software for system configuration is not necessary. The system can be configured using one wheel and one button. All can be done just by fingers. That's what we called Touch Track! You can also configure the system with browsers. This gives you the option of using a remote PC (Windows or Mac or Linux), a pad or even a smart phone to do the configuration. Real-time previews assist with system set-up and confirm source status.
- The NovaPro HD has DMX512 and GenLock interface. Professional control and synchronization are ready to go. Optical fiber outputs enable the confident long-distance data transmission.



4) The NovaPro HD is the flagship product of our new generation controllers, powerful in processing, professional in control, and friendly in user-interface. Having a display to work has never been as easier and more enjoyable as with NovaPro HD.

2 Port/button

2.1 Front panel



①: Red indicating light corresponds to power switch and green light corresponds to working state indicating light. When it works normally, green light normally blinks. When there is no video input signal, blinking is slow. When any internet port is in hot backup state in this equipment, breathing blinking is shown.

②: Six image input source buttons. There is the indicator light corresponding to input source signal at the bottom. It is blue in default when powered on and it is green after the current channel is selected. It is switched into input source of main picture by pressing input source button for a short time and it is switched into input source of picture in picture by pressing it for a long time. While setting, you can view operation result on the operation screen. As shown in the figure, Main (main



picture) is displayed on current operation screen: SDI, PIP (picture in picture): VGA.

③: Operation screen.

NOVASTAR		NovaPro HI
INPUT		
MAIN	SDI	1080i@60Hz
PIP	VGA	1024×768@60Hz
OUTPUT		
Scree	n	196×256@60Hz
Port		1 2 3 4
STATE		
Maste	r 🛛 🗰 1	00% 🌡 37°C 🚺 5.0 V 🛛
5 7 2 5	GLK	

> INPUI:

Input source of current Main (main picture) is SDI input and resolution and field frequency are 1080i @ 60Hz;

Input source of current PIP (picture in picture) is VGA input

and resolution and field

frequency are 1024x768@60Hz.

OUTPUT: Resolution and field frequency of current output are 196×256@60Hz;

internet port 1 output.

STATE:

Master: It shows that the current controller is in main control; when Backup is

displayed, it is backup.

* 100%: Current luminance of display screen is 100%.

37°C: When current temperature of NovaPro HD exceeds threshold value (can be

changed by users), temperature word is displayed in red and blinks.

^{♥ 5.0} [∨]: When current voltage of NovaPro HD exceeds threshold value (can be

changed by users), voltage word is displayed in red and blinks.





: Output picture is reduced picture.



Output picture is intercepted picture.



: Output picture is enlarged picture.



: Indicating there is GLK synchronous signal input.



Indicating the controller is not locked.



invalid at this time.

Locking: simultaneously press the knob and ESC button for more than three

seconds to lock the controller.

Unlocking: simultaneously press the knob and ESC button for more than three

seconds to unlock the controller.

④: Knob: enter by pressing the knob and select or adjust by turning the knob.

(5): **ESC**: Exit current operation or option.

(6): BLK: Display blank screen. Indicator light is blue in default when powered on and

it is displayed in green when enabled;

FRZ: Display screen picture freezing. Indicator light is blue in default when powered

on and it is displayed in green when enabled;

PIP: Display picture in picture. Indicator light is blue in default when powered on



and it is displayed in green when enabled;

⑦: USB interface, configuration file or updating program can be imported.

(8): USB interface, Connected with PC for communication.

2.2 Rear panel



Ethernet: Internet port can be connected with PC for communication through			
standard TCP/I	P protocol.		
LISE Control	IN: Connected with PC for communication.		
OSB CONTO	OUT: Cascaded with the next NovaPro HD.		
DMX Control: Connect all consoles that support DMX512 interface protocol.			
Input	Audio input: Audio.		
input	Video input: DP/HDMI/VGA/DVI/ CVBS /SDI.		
SDI LOOP SDI input signal looping out port.			
	IN: Genlock synchronizing signal guarantees display picture on big		
Genlock	screen is synchronous with external Genlock source.		
	LOOP: Looping out port of Genlock.		



DVI LOOP	VI LOOP DVI input signal looping out port.		
Montior	DVI output, monitor can be connected for monitoring.		
Montion	HDMI output , monitor can be connected for monitoring.		
LED Output: 4-way Internet port output.			
OPT Output: 4-way optical fiber output.			
AC Power: AC power interface.			

3 Description of operation action

All interface operations of NovaPro HD are finished through keys and knob.

Knob: press the knob and enter into menu, adjust value or select submenu through turning the knob. At this time, enter into the submenu or confirm adjusted value by pressing the knob.

Return key [ESC]: exit current menu or operation.

Switching of 6 input sources: it is switched into main picture input source by pressing for a short time and it is switched into picture in picture input source by pressing for a long time.

Picture control key: indicator light is blue in default and it is displayed in green when enabled;

4 Operation Instruction

NovaPro HD has powerful functions and easy operation. All operations can be finished through one knob and one return key.



Please see the following chapters for detailed operation.

4.1 Step 1 Hardware connection



4.2 Step 2 Quick touching screen (simple rule screen)

Precondition of quick touching screen is:

1) Number of load-carrying cabinetes at each internet port must be the same (if number of cabinetes is not integer multiples of internet ports, the remaining

cabinetes will be borne on the last internet port);

2) Screen and cabinet are regular and sizes of cabinetes are the same.

Operation steps of quick touching screen:

Step 1 The screen being power-on, if the cabinet is in normal display, enter into step

2; if the cabinet is in abnormal display, first load the cabinet file, and fix it to the receiving card; see detailed operation in <u>4.7 Advanced Setting</u>.

Step 2 Return to the "Screen Setting" submenu. Rotate the button to switch to submenus of other options respectively to perform configurations, as shown in

the following figures:



- a) Set **Cabinet Row Num** and **Cabinet Col Num** according to the actual situation of the screen.
- b) Set **Cabinet Out1 Num**. The device has some limitations on the cabinet quantity of network interfaces. For details, see precautions for screen setting **i**).
- c) Set the alignment of the screen. Pay attention to precautions for screen setting iii), iv) and v) below.





Precautions for screen setting:

i. Example: If the number of network interfaces with loads is n ($n \le 4$), the first n-1 network interfaces must have the same number of cabinets, (if number of load-carrying cabinetes at all internet different, access is advanced touching screen can be selected: See 4.7.2 advanced screen for operation) which must also be an integral multiple of the number of cabinet rows or columns and be greater than or equal to the number of cabinets

For example, if network interface 1, network interface 2, network interface 3 have loads, network interface 1 and network interface 2 must have the same number of cabinets, which must also be an integral multiple of the number of cabinet rows or columns. Therefore, you need only to set **cabinet out1 num** according to the actual situation when setting the screen. The number of receiving cards for network interface 3 must be smaller than or equal to **cabinet out1 num**



for the nth network interface.

ii. In the case of special-shaped cabinets, different cabinet sizes and special-shaped screen, the NovaLCT-Mars software is required to be connected to configure the screen.

ii. During connection setting, you can rotate the button to see the effects of different connections on the screen in real time. If you are satisfied with the connection, you must press the button to save the setting. You can press the return key to exit from the current operation.

- **iv.** During connection setting, you must ensure that the connection of each network interface is downward in the same direction.
- v. During connection setting, you must ensure that network interface 1 is the start position of the whole connection.

4.3 Step 3 Input setting (input resolution setting)

Set resolution of input source signal. Resolution can be directly set and changed for digital input interfaces DVI, HDMI and DP on Pro. Resolution can only be modified for other input methods on input devices.

Input resolution can be set in two ways:



Method one: Preset resolution setting

Selection is made in preset resolution of the controller. If there is no preset resolution,

you can select the second method and customize resolution.



Method two: User-defined resolution setting

Set user-defined width, height and refresh rate and then turn and rotate and select "apply" and press the knob for application. If the application is not confirmed, user-defined resolution is invalid.





4.4 Step 4 Brightness control

Return to main menu interface, press the knob and select the corresponding value. At

this time, the knob can be turned to adjust brightness value.



4.5 Step 5 Output setting (picture zoom setting)

Output setting is classified into three situations of use:

> The first type: Point to point display, namely zoom is disabled. Size of output image is the same as input image and it is output at original proportion.

Horizontal and vertical shifts of picture are set as required and operation steps



are shown in the figure below.

Output Setting		Output Settin	g	
🔲 Zoom	Disable	📃 Zoom		Disable
🔼 Auto Fit To Screen	Disable	Auto		
📕 Custom Zoom	Enable	L Custor		
🖵 Image Offset		🛄 Image	Offset	
Image Offset ■ Horizontal X	0			
Vertical Y	0			
		b		
		5		
· · · · · · · · · · · · · · · · · · ·				

The second type: Output picture is adjusted to the size of the display screen, namely it is adaptive to the size of display screen.

Operation: enable zoom and automatic full screen zoom.





> The third type: User-defined zoom effect.

Operation: enable Zoom and disable Auto Fit To Screen for customized zoom.



Operation steps of user-defined zoom:

a) Set input capture, namely part of picture after the starting point is only intercepted and displayed on the display screen. Horizontal width (less than or equal to horizontal width of input source), vertical height (less than or equal to height of vertical source), horizontal and vertical starting points need to be set.



b) Set output window. Size of the window is equal to the size of the display screen. After the window is set, image can only be displayed within the scope of the window through self-adaption.



4.6 Display control

Main		Image Control	
🔅 Brightness	100%	No rma l	
Screen Setting		Freeze	Off
🔜 Input Setting		🔲 Black Out	Quick SW
📑 Ouput Setting		RGB Test Pattern	Fade I/O
🎼 Display Control		🎼 Image Quality	Pop-up
🔅 Advanced Setting		🔤 Channel Effect	Quick SW
🏠 Communication Setting			
💮 Language			

- Normal display
- > Picture freezing: it is the same as the role of FRZ button.
- > Picture blank screen: it is the same as the role of BLK button.
- Test picture:

Test Pattern	
👇 Pure Color	
Gradual Change	
🇰 Grid	
- Orientation	0~0 1-0 1-1
🔅 Brightness	2
E Space	4
🖓 Speed	2

Picture quality adjustment

Contrast, Saturation, hue, color temperature, red luminance, green luminance, blue luminance and Gamma value are set according to the requirements. After they are adjusted to satisfaction, Contrast, Saturation and Hue are saved automatically, the others of the parameters should be fixed into receiving card.

Image Quality		Image Quality
🛑 Contrast	50%	🛄 Save On HW
🔺 Saturation	50%	
🌌 Hue	0	
🚓 Color Temperature	Custom	
🕟 Red	255	
🕝 Green	255	
📵 Blue	255	
Gama Gamma	2.8	

Channel Effect

Right now we support three effects on switch sources, Quick switch, Fade in fade out

and pop-up, if off is being selected that means there is no effects on source switch.





4.7 Advanced setting

Several setting options of main functions are included in advanced setting, as shown in the figure below, including double picture setting, advanced touching screen and splicing load-carrying setting, etc. Operation of each function will be detailed for users in the following text.







4.7.1 Picture in picture

Set switch, opening and closing of picture in picture, input sources of main picture and picture in picture, size, position and transparency of picture in picture and intercepting position of picture in picture.

PIP Setting		PIP Setti	ng			
DIP	On	PIP	Cut	Setting		
💒 Main Source	DVI					
💒 PIP Source	HDMI					
+w+ Horizontal	128					
🙀 Vertical	128					
💻 Horizontal X	0					
🍽 Vertical Y	0					
📝 Transparency	1					
1						
Picture in picture	Opening and	l closing	settin	g of picture	in picture is th	າຍ
	same as the	role of PI	P but	ton and sync	hronous with	it
Main picture/picture in	Input source	switchir	ig of	main picture	and picture	in
picture input source	picture is the	same as	the ro	ole of input s	ource switchin	١g
	on the main	panel				

Horizontal width	Horizontal width of picture in picture
Vertical height	Vertical height of picture in picture
Horizontal position	Horizontal coordinate of picture in picture
Vertical position	Vertical coordinate of picture in picture
Transparency	Transparency of picture in picture



Setting of double picture	Picture is intercepted from the set starting position and
intercepting	is displayed on picture in picture and its size is set
	horizontal width and vertical height.
	Enable this function and then set horizontal width,
	vertical height, horizontal and vertical starting points

4.7.2 Advanced Config (Complex rule screen)

If number of load-carrying cabinets is different and precondition of quick mapping

screen is not met, advanced mapping screen can be used at this time,

Operation steps of advanced mapping screen are shown as follows:



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Main		Advanced Setting	
🔅 Brightness	100%	PIP	
Screen Setting		🗰 Advanced Config	
📃 Input Setting		📕 Montage Load	
📑 Ouput Setting		芦 Load Cabinet Files	
🃑 Display Control		🔜 Monitor Threshold	
🔅 Advanced Setting		🔅 Advanced Attr	
🏠 Communication Setting		🏬 Save On HW	
🊱 Language		🏭 Redundancy	Master
Warnin een ne ss OK	g: Advcane eds specia to proceed	ed configure scr al training, pre H, ESC to exit!	

1) Enable advanced mapping screen function.

Pro advanced point is disabled in default and this function needs to be enabled.



2) Internet port setting

Number of lines and columns, horizontal and vertical deviation and wiring method of

load-carrying cabinets at each port are set based on actual configuration of cabinets.



Advanced Config		Port1 Load	
Advanced Config	Enable	Cabinet Row QTY	1
🕋 Port1 Setting		Cabinet Col QTY	1
🕋 Port2 Setting		💻 Horizontal X 🛛 🔅	0
🕋 Port3 Setting		I∎ Vertical Y (D
🕋 Port4 Setting		🚺 Data Flow (Front View) 🛛 📩	ב
Apply			
		승규님 화물 물건이 있는 것 모습니까요?	
			_

Precautions of advanced mapping screen:

- a) If they are various shapes of cabinets, sizes of cabinets are different and screens are different, software NovaLCT-Mars needs to be connected to configure display screen;
- b) When wiring method is set, real-time effect of different wirings can be displayed on the display screen by turning the knob. If you are satisfied, you must press the knob once to save the setting and press return key to exit the current operation;

After finishing each port setting , select "Apply", and click the knob to apply the current settings, if you want to give up the current setting, choose "Return".



Advanced Config	
Advanced Config	Enable
🕋 Port1 Setting	
ing Port2 Setting	
🛅 Port3 Setting	
🛅 Port4 Setting	
Apply	₽ Return

4.7.3 Splicing load-carrying

When the display screen is huge, two or more NovaPro HD needs to be cascaded for load-carrying; so splicing load-carrying of each NovaPro HD needs to be set respectively.



Fig. 4-1 4K Resolution large load-carrying scheme

Firstly enable splicing load-carrying function and then set total number of points of big screen, and lastly set size of load-carrying area of this NovaPro HD and starting position of load-carrying area.



Total number of points is the sum of sizes of load-carrying areas of all cascaded

NovaPro HD.

Advanced Setting		Montage Load	
		Montage Load	Off
Advanced Config		🌐 H Total Load	128
		(IIII) V Total Load	128
着 Load Cabinet Files		🏧 Load Area Width	64
🚧 Monitor Threshold		🚺 Load Area Height	64
🔅 Advanced Attr		💻 Load Area X	0
🏬 Save On Hw		🍽 Load Area Y	0
🏭 Redundancy	Master		

4.7.4 Load cabinet files

NovaPro HD is connected with PC, NovaLCT-Mars runs on PC and cabinet setting file

saved previously is imported into controller.

1) Save cabinet configuration file

After receiving card is configured, click and save cabinet configuration file (.rcfg) to

local file on PC.



	M4				
ending Board Scan B	oard Screen Connection				
Chip: (Common C	32W×32H	Scan Type:	1/4 scan	
Direction: H	lorizontal Decode	Type: 74HC138 Decod	ling Data Group:	4	>>
Cabinet Info			-		
Cabinet into					
Regular		in in	equiar		
Pixel Width:	96 🗧 <=265	Please 🔺 W	idth: ?? Heiah	t ??	Please 🔺
Pixel Height:	64 🚔 <=128	the width	ading error. Please adi	ust perform	make sure
Module Casc	Right to Left	and height	Construct	/iew Cabinet	and height 💂
Performance Settin	3]
Group Swap	More Setting				
Refresh Rate:	480 - Hz	Accelerate R	4		
Crav Scale:		Orașe Mandare	Petroph Data Simt		
Gray Scale.	Normal 4096 👻	Gray Mode:	Refresh Rate First 👻		
Data CIOCK:	12.5 • MHz	Data Duty.	50 🗸	(25~75) %	
Clock Phase:	2 🔻	Low Gray Co	0		
Blanking Time:	25 (=2.0	IOus) Ghost Contro	20	(1~24)	
Line Change T	3 🔶 (0~1	9)			
Brightness Effi	69.01%	Min OE:	328 ns		
Smart Setting		Load File	Save File Re	ad From HW	Send To HW
			Save Config File	Save	Close
另存为	And Income Support the	X			×
			- 4	物本 计松	
	F V XIA V	2	• • • • • • • • • • • • • • • • • • • •	接杀 又归	P
组织 ▼ 新建文	[件夹				nu - 🔞
숨 收藏夹	↑ 文档库			北河亡	t. \\ //+=±-▼
🚺 下载	包括: 2个位置	Ē		34673733	
📃 桌面					
🗐 最近访问的位	置			1	-
	Tencent	我的图片 Noval	.CT Download	收藏夹	我的视频
肩库	Files	201:	2 s		
■ 限止				III	
■ 閏万 副 →総					
	77.10首乐	iencent 狸窠	NovaPluto	WC-go	NovaCLB- Screen
	-			110	
❷' 目示					
♂/目示 文件名(N):	config file 1				•
♂/目示 文件名(N): 保存类型(T):	config file 1 Scan Board File(*.rcfg)			•





2) Cabinet configuration file is imported into NovaPro HD

Operation steps are shown in the figure below:

System(S) T	ools(C) Plug-in Tool(P) User(U) L	anguage(Lang)(L) Help(H)
Screen Conf	Screen Config(S) Bightness(B) Calibration(C) Display Control(P)	trol Monitor Function Card
Control Sv	Monitor(M) Function Card(F) Hardware Information(H)	0 View Detail
	Multiple Screen Management(A) Point Detect(T) Prestore Picture(R)	8 5 3 2
	Color Restore(O) Light Panel Flash(U)	
Server Status:	Receive Card relay(I) MultiBatch of Adgustment(M)	::.
	Load configuration file(E)	

🖳 Load configuration file	🖳 Load configuration file
Select COM port: COM3	Select COM port: COM3 💌
Move Up Move Down	Config file 1 Move Up Move Down
Add File Delete File Rename File Save to HW	Add File Delete File Rename File Save to HW

3) Load Cabinet Files





4.7.5 Setting of monitoring threshold value

Set threshold values of temperature and voltage. When temperature or voltage of NovaPro HD exceeds the threshold value, temperature or voltage word is displayed on the home page of the screen in red and blinks.



4.7.6 Advanced attribute



Including setting time of returning to main interface and the following functions:

VGA automatic adjustment: sampling parameters of VGA input signal are automatically adjusted so that VGA picture is clear and complete. Select this menu and then press the knob once and perform VGA automatic adjustment once.

ADC calibration: when analog signal accesses, processors that ADC calibration is not made may have defects such as color cast or picture dark. NovaPro HD can automatically make ADC calibration based on input analog signal (including CVBS and VGA) to solve the above problems. Select this menu and then press the knob once and perform ADC calibration once.

3D noise reduction: main picture input port is valid when it is not VGA and there are five modes of noise reduction: "off", "automatic", "low", "medium" and "high".

4.7.7 Fixed into receiving card

All current configurations of NovaPro HD are fixed into receiving card and will not be lost after power fault.





4.7.8 Redundancy

Set this controller as master control or backup. Master or Backup will be displayed on

operation main interface.

Advanced Setting		
DIP PIP		
🗰 Advanced Config		
📕 Montage Load		
着 Load Cabinet Files	\$	
👯 Monitor Threshold		
🔅 Advanced Attr	Maste	r
📺 Save On Hw	Slave	
📲 Redundancy		Slave

4.7.9 DMX512 channel setting

Set the starting channel of DMX512. NovaPro HD currently selects 16 attribute channels, of which 8 attributes are defined and the rest is not temporarily defined. For example, if starting channel is set as 1, the controller will take 16 channels from the 1st channel as the channels with effective attributes.





Attribute definitions of channels are shown in the table below:

Channel serial number	Attribute definition
0	Globle Brightness
1	Contrast
2	Saturation
3	Hue
4	Color temperature
5	Red component luminance
6	Green component luminance
7	Blue component luminance
8	Gamma
9	Undefined
10	Undefined
11	Undefined
12	Undefined



13	Undefined
14	Undefined
15	Undefined

4.7.10 Factory reset

NovaPro HD is reset to factory setting.

4.7.11 Hardware version

View hardware version of NovaPro HD.

4.8 Communication Setting

Set Communication Mode and Network parameters of NovaPro HD.

There are two methods for communication , one is USB, the other is LAN. The system will automatically identify the current communication mode, if both are inserted, there are two options: USB preferred and LAN preferred. That means the system will use USB/LAN mode for communication if you choose USB/LAN preferred when the system detected both are active.

Network mode includes manual and automatic modes. You shall pay attention to that IP address cannot conflict with other devices upon manual setting. It is obtained through DHCP upon automatic setting.



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4.9 Language setting

NovaPro HD currently supports Chinese and English.

Main		Main	
🔆 Brightness	100%	🔅 Brightness	100%
Screen Setting		Screen Setting	
🔜 Input Setting		🔜 Input Setting	
📑 Ouput Setting		📑 Ouput Setting	
🃑 Display Control		🎼 Display Control	
🔅 Advanced Setting		🔅 Advanced Setting	
🏠 Communication Setting		🎇 Communication Setting	
🍪 Language		🍪 Language	



