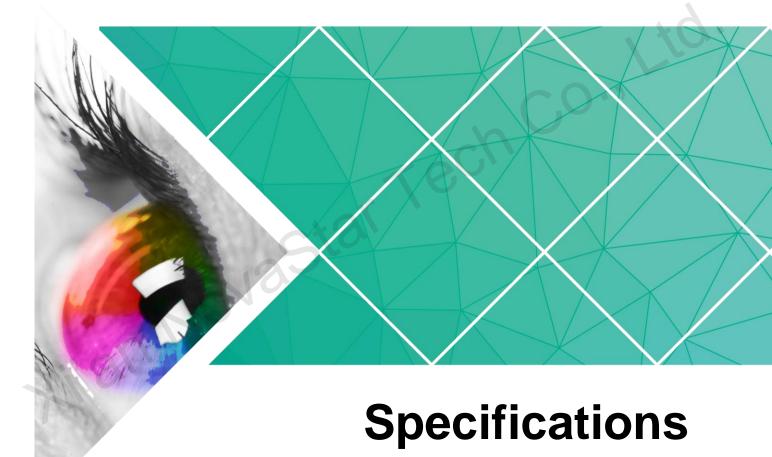


# N9 Multi-Screen Splicing Video Processor



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The N9 is a high-performance multi-screen splicing video processor independently developed by NovaStar. Using high-performance video processing technologies, it is capable of processing and outputting ultra-high quality images. The N9 also provides powerful video signal receiving capability. It can support 9 inputs and 4 DVI outputs at the same time. A single N9 can load up to an 8KK screen, and multiple N9 units can be cascaded for output.

The N9 can work with NovaStar's desktop console C1 and make the operation of N9 on stage more convenient. It is also equipped with brand-new smart management software V-Can from NovaStar to provide richer image mosaic effects.

Thanks to the powerful capabilities of receiving and processing a variety of video signals, the N9 can be widely used in various scenarios, such as intermediate and high-end rental, stage control, media centers, big conference sites, exhibition sites and concert control centers.



- Up to 9 inputs, including 1 × dual-link DP 1.1 (can be replaced by HDMI 1.4, DP 1.1 or dual-link DVI), 2 × HDMI 1.3 (can be replaced by DVI/VGA/CVBS), 4 × DVI, 1 × DP 1.2 and 1 × 3G-SDI.
- Up to 7 layers supported at the same time. Max. resolution of each layer: 3840x2160, 7680x1080 or 1920x4320.
- Customized BKG settings You can load an image file from the control computer or capture an input source image displayed on the screen as the BKG image.
- Shaped layer, layer mask and color keying supported
- Layer cloning and Z-order layer sorting supported
- Input source image cropping supported
- Quick mosaic and custom mosaic
- EDID management supported Supports custom EDID and standard EDID.
- 4 x DVI mosaic output, 4 x DVI backup output, 1 x HDMI preview output, and 2 x Aux output
- Output resolution settable. The mosaic width of 4 outputs can be up to 15360x600.
- 4 × single-link mosaic output, or 2 × dual-link mosaic output
- Input, PVW, PGM and prompter monitoring supported by MVR connector
- Layer position and size adjustable
  - Layers can be added with borders of custom widths and colors.
- 32 presets

A total of 32 user presets can be created and saved as templates which can be used directly and conveniently.

- Intuitive color LCD screen and clear button indicator prompt on the front panel, simplifying system control and operation.
- Genlock synchronization and synchronization with any input source supported, achieving output vertical synchronization.



## Front Panel

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No.	Button	Function	
1 Input sourc	Input source	Indicate input source status.	
	buttons	<ul> <li>On, dark: Signal source is accessed but not in use.</li> </ul>	
		<ul> <li>On, bright: Signal source is accessed and in use.</li> </ul>	
		<ul> <li>Off: No signal source is accessed or the accessed source is abnormal.</li> </ul>	
2	LCD screen	Display the current device status and settings menu.	
	Knob	• On the home screen, press the knob to enter the operation menu screen.	
		• On the operation menu screen, rotate the knob to select a menu item, and press the knob to confirm the selection or enter the submenu.	
		• When a menu item with parameters is selected, you can rotate the knob to adjust the parameters. Please note that after adjustment, you need to press the knob again to confirm the adjustment.	
	BACK	Press the button to exit the current menu or operation.	

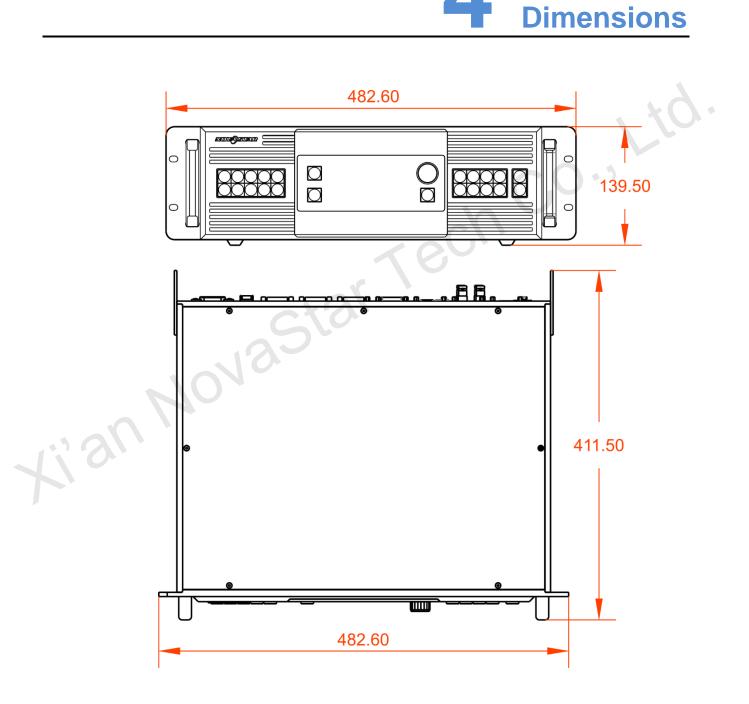
No.	Button	Function			
	button				
	TAKE button	Switch PVW to PGM.			
	TEST button	Enter the test patterns menu.			
3	Layer shortcut	Press a button to enter the corresponding layer property menu for quick settings.			
	buttons	• On: Layer is open.			
		<ul> <li>Flashing: Property menu of the corresponding layer is opened and being edited.</li> </ul>			
		Off: Layer is closed.			
		• On the home screen, hold down a layer button to close the layer.			
		BKG: Open or close the BKG.			
4	Preset	Press it to enter the preset menu. A total of 32 presets can			
	button	be loaded, saved and deleted, etc.			
	Fn button	A custom function button			

### **Rear Panel**



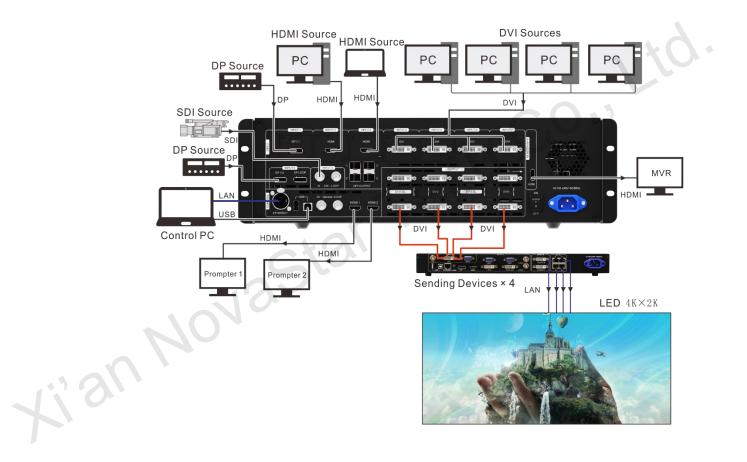
Input				
	Dual-link DP 1.1 input, 3840×1080@60Hz and downward compatible			
INPUT-1	This connector can be replaced by an HDMI 1.4, DP 1.1 or dual link DVI connector based on user requirement.			
INPUT-2 HDMI 1.3, 1920x1080@60Hz and downward compatible				
INPUT-3	This connector can be replaced by DVI, VGA or CVBS connector based on user requirement to accept different video sources.			
INPUT-4				
INPUT-5	DVI1–DVI4, VESA standard compliant, 1920x1080@60Hz and downward compatible			
INPUT-6				
INPUT-7				

INPUT-8	DP 1.2, 3840x2160@60Hz and downward compatible	
	DP1.2 LOOP	
INPUT-9	3G-SDI, 1920x1080@60Hz and downward compatible	
	SDI LOOP	
Output		
HDMI	HDMI output connector, capable of monitoring 9 input sources, PVW and PGM.	
DVI1-DL/PGM1	DVI1 output If the output mode is set to dual link, this connector is DuallinkOut1.	
DVI2/PGM2	DVI2 output If the output mode is set to dual link, this connector is invalid.	
DVI3-DL/PVW1	DVI3 output If the output mode is set to dual link, this connector is DuallinkOut2.	
DVI4/PVW2	DVI4 output If the output mode is set to dual link, this connector is invalid.	
HDMI1/HDMI2	2 Aux output connectors	
Control		
ETHERNET (RJ45)	A control connector	
USB USB (Type-B)	For the connection with control computer	
USB USB (Type-A)	For cascading N9 units	
IN–Genlock– LOOP	For synchronizing cascaded devices	



Unit: mm

# **5** Applications



# 6 Specifications

Connector Sp	Connector Specifications	
Connector	Resolution	
	800x600@24/25/30/48/50/60/72/85/100/120Hz	
	1024X768@24/25/30/48/50/60/72/85/100/120Hz	
	1280X720@24/25/30/48/50/60/72/85/100/120Hz	
	1280x768@24/25/30/48/50/60/72/85/100/120Hz	
	1280X800@24/25/30/48/50/60/72/85/100/120Hz	
	1280X1024@24/25/30/48/50/60/72/85/100/120Hz	
	1366X768@24/25/30/48/50/60/72/85/100/120Hz	
	1440X900@24/25/30/48/50/60/72/85/100/120Hz	
	1600X1200@24/25/30/48/50/60/72/85/100/120Hz	
19	1680X1050@24/25/30/48/50/60/72/85/100/120Hz	
DP 1.1	1920X1080@24/25/30/48/50/60/72/85/100/120Hz	
	1920x1200@24/25/30/48/50/60/72/85/100Hz	
	1920×2160@24/25/30/48/50/60Hz	
	2048×640@24/25/30/48/50/60/72/85/100/120Hz	
	2048×1152@24/25/30/48/50/60/72/85/100Hz	
	2048×1536@24/25/30/48/50/60/72/85Hz	
	2304×1125@24/25/30/48/50/60/72/85/100Hz	
	2560×816@24/25/30/48/50/60/72/85/100/120Hz	
	2560×960@24/25/30/48/50/60/72/85/100Hz	
	2560×1600@24/25/30/48/50/60Hz	
	3840x1080@24/25/30/48/50/60Hz	
	3840x2160@24/25/30Hz	
	800x600@24/25/30/48/50/60/72/85/100/120Hz	
	1024X768@24/25/30/48/50/60/72/85/100/120Hz	
DP 1.2	1280X720@24/25/30/48/50/60/72/85/100/120Hz	
	1280x768@24/25/30/48/50/60/72/85/100/120Hz	
	1280X800@24/25/30/48/50/60/72/85/100/120Hz	

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1280X102	24@24/25/30/48/50/60/72/85/100/120Hz
1440X900	0@24/25/30/48/50/60/72/85/100/120Hz
1600X120	00@24/25/30/48/50/60/72/85/100/120Hz
1680X105	50@24/25/30/48/50/60/72/85/100/120Hz
1920X108	30@24/25/30/48/50/60/72/85/100/120Hz
1920x120	0@24/25/30/48/50/60/72/85/100/120Hz
1920×216	60@24/25/30/48/50/60/72/85/100/120Hz
2048×640	0@24/25/30/48/50/60/72/85/100/120Hz
2048×115	52@24/25/30/48/50/60/72/85/100/120Hz
2048×153	36@24/25/30/48/50/60/72/85/100/120Hz
2304×115	52@24/25/30/48/50/60/72/85/100/120Hz
2560×816	6@24/25/30/48/50/60/72/85/100/120Hz
2560×960	)@24/25/30/48/50/60/72/85/100/120Hz
2560×160	00@24/25/30/48/50/60/72/85/100/120Hz
3840×108	30@24/25/30/48/50/60/72/85/100/120Hz
3840×216	60@24/25/30/48/50/60Hz
800x600@	24/25/30/48/50/60/72/85/100/120Hz
1024X768	3@24/25/30/48/50/60/72/85/100/120Hz
1280X720	0@24/25/30/48/50/60/72/85/100/120Hz
1280x768	@24/25/30/48/50/60/72/85/100/120Hz
1280X800	0@24/25/30/48/50/60/72/85/100/120Hz
HDMI 1280X102	24@24/25/30/48/50/60/72/85Hz
1366X768	3@24/25/30/48/50/60/72/85/100/120Hz
1440X900	0@24/25/30/48/50/60/72/85/100Hz
1600X120	00@24/25/30/48/50/60Hz
1680X105	50@24/25/30/48/50/60/72Hz
1920X108	30@24/25/30/48/50/60Hz
DVI 800x600@	24/25/30/48/50/60/72/85/100/120Hz
1024X768	3@24/25/30/48/50/60/72/85/100/120Hz
1280X720	)@24/25/30/48/50/60/72/85/100/120Hz
1280x768	@24/25/30/48/50/60/72/85/100/120Hz
1280X800	)@24/25/30/48/50/60/72/85/100/120Hz
	24@24/25/30/48/50/60/72/85Hz
	3@24/25/30/48/50/60/72/85/100/120Hz
	)@24/25/30/48/50/60/72/85/100Hz
	00@24/25/30/48/50/60Hz
	50@24/25/30/48/50/60/72Hz
	30@24/25/30/48/50/60Hz
SDI 3G-SDI	
	@60Hz, 1024×768@60Hz, 1280×720@60Hz, 3@60Hz, 1280×800@60Hz, 1280×1024@60Hz,

		1366×768@60Hz, 1440×900@60Hz, 1600×900@60Hz, 1680×1050@60Hz, 1600×1200@60Hz, 1680×1050@60Hz, 1920×1080@60Hz	
	Overall Specifications		
	Connector	Description	
	Power connector	AC 100 V–240 V 50/60 Hz	
	Operating temperature	0°C–60°C	
	Dimensions	3U standard chassis 482.6 mm × 139.5 mm × 411.5 mm	
	Power consumption		
	Weight		
Kian		startech	