

T T

- User Manual

Overview

The VP10HD-J is a TWT new all-in-one controller that features excellent video processing capabilities, sending card functions and LED screen configurations. The VP10HD-J provides a variety of video input connectors, supporting full HD 4K×2K@60Hz image processing and sending capabilities. Besides, VP10HD-J supports 8K×1K@60Hz ultra-high resolution settings.

The VP10HD-J can send the processed video to the LED screen via Neutrik Ethernet ports and optical fiber ports. Thanks to its powerful video processing capabilities and sending functions, the VP10HD-J is well suited for stage control systems, conference sites, activities, exhibition sites and other high-end rental applications as well as fine-pitch LED displays.

Appearance

2.1 Front Panel



Button	Description		
Power button	 Power on: Press the button to power on the device. Power off: Hold down the button to pop up a dialog box, then rotate the knob to select Yes and press the knob to power off the device. 		
USB-B	For PC connection for debugging		
Input source buttons	 Input source switching buttons Press the button to switch the input source for the main layer, and hold down the button to switch the input source for the PIP. Button indicators are used to indicate the working status of the input source signal. White, always on: Input source is not used, and no input signal is accessed. Blue, fast flashing: Input source is used, but no input signal is accessed. Blue, slow flashing: Input source is not used, but input signal is accessed. Blue, always on: Input source is used, but input signal is accessed. 		

TFT 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. 	
ESC button	Press the button to exit the current menu or cancel the operation.	
Function buttons	 PIP: Enable/Disable PIP. SCALE: Enable/Disable full screen function for main layer. DVI MOSAIC: Switch to DVI mosaic input source. Press it to switch the input source of main layer, while hold it down to switch the input source of PIP. Main layer and PIP can be set according to your preference. FN: This is a custom function button. The function can be customized to Synchronization, Freeze, Black Out, Test Pattern, Quick Configuration, Image Quality and Preset Settings. It is Synchronization by default. 	

2.2 Rear Panel



Input			
Connector	Quantity	Description	
DVI	4	 Four DVIs are all single-link DVI connectors by default. 4 × DVI inputs Each DVI: Input resolution up to 1920×1200@60Hz, downward compatible 4 DVI input sources constitute 1 input source (DVI MOSAIC). 	

		 For supported standard resolutions, please see Table 5-2. In dual-link mode DVI 1 and DVI 3 are dual-link DVI connectors while DVI 2 and DVI 4 are unavailable. DVI 1/DVI 3: Input resolution up to 3840×1080@60Hz, downward compatible For supported standard resolutions, please see Table 5-2.
12G-SDI	2	 Input resolution up to 4096×2160@60Hz, downward compatible Standard resolutions unsupported
DP 1.2	1	 Input resolution up to 3840×2160 @60Hz, downward compatible HDCP 1.3 compliant Standard resolutions supported. For supported standard resolutions, please see Table 5-2.
HDMI 2.0	1	 Input resolution up to 3840×2160 @60Hz, downward compatible HDCP 1.4 EDID management Standard resolutions supported. For supported standard resolutions, please see Table 5-2.
Output		
Connector	Quantity	Description
Ethernet port	16	 16 × Neutrik Gigabit Ethernet output connectors, allowing for a loading capacity of up to 10,400,000 pixels Maximum loading capacity: Max. width: 16K, max. height: 8K Maximum loading capacity of a single Ethernet port: - 8-bit input source: 650,000 pixels 10-bit/12-bit input source: 320,000 pixels

OPT 1-4	4	10G optical connectors	
		• OPT 1 transmits data of Ethernet ports 1–8.	
		• OPT 2 transmits data of Ethernet ports 9–16.	
		• OPT 3 serves as the hot backup for OPT 1.	
		• OPT 4 serves as the hot backup for OPT 2.	
HDMI 2.0 LOOP	1	HDMI loop output connector	
		Only 1 level of device cascading supported	

		HDCP 1.4 EDID management
12G-SDI LOOP	2	SDI loop output connectors
MONITOR	1	 HDMI connector for output monitoring Resolution up to 1920×1080@60Hz
Control		
Connector	Quantity	Description
ETHERNET	1	Connect to the PC for communication, or connect to the Web for device control.
USB (Type-B)	1	 Connect to the PC for device control. Used as the input connector to connect a VP10HD-J unit for image mosaic
USB (Type-A)	1	Used as the output connector to connect a VP10HD-J unit for image mosaic
GENLOCK IN- LOOP	1	Connect to a synchronization signal to synchronize all the connected VP10HD-J units.
RS232	1	Connect to the control device.





4 Home Screen

Figure 4-1 Home screen



Area	lcon	Description
A	B-DP 1920x1080@29.99	Denotes the layer is active and displays the layer input source name and resolution.
	Inactive	Denotes the layer is inactive.
В	Screen 1920x1080@60	Displays the resolution and frame rate of the configured screen.
С		Displays the screen brightness.
D	1	The device is in video controller mode and this Ethernet port is connected.
	1	This Ethernet port is not connected.
		The device is in fiber converter mode and this Ethernet port is connected.
	1	This Ethernet port is connected and serves as the output backup port.

	Hot Backup 1 3 2 4 Hot Backup		The OPT mode is set to Hot Backup, optical fiber ports 3/4 backup the data of optical fiber ports 1/2.
E	Copy — 1 3 2 4 Copy —		The OPT mode is set to Copy, optical fiber ports 3/4 copy the data of optical fiber ports 1/2.
	Synchronization	GEN	The Genlock function is turned on.
		GEN	The Genlock function is turned off.
		OEM	The Genlock function is waiting to be turned on.
		GEN	The Genlock function is not turned on successfully.
	Display control		The LED screen displays the black screen.
		TEST	The LED screen displays the selected test pattern.
			The LED screen displays the current input source normally.
F		FRZ	The output image is frozen.
	BKG	ВКО	The BKG function is turned on.
		вко	The BKG function is turned off.
	Communication	Ţ	The current device communication mode is USB Preferred.
		Ľ	The current device communication mode is LAN Preferred.
		•	The current device is not connected to the control PC.

5 Menu Operations

Button descriptions:

Knob

- On the home screen, pressing the knob enters 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.

ESC: Press the button to exit the current menu or cancel the operation.

5.1 Screen Brightness

You can adjust the screen brightness in an eye-friendly way according to the current ambient brightness. Besides, appropriate adjustment of screen brightness can extend the service life of the LED screen.

Figure 5-1 Screen brightness

enu	
Screen Brightness	60%
Screen Settings	>
Layer Settings	>
Input Settings	>
Image Mosaic	>
Preset Settings	>
Display Control	>
Advanced Functions	>

- Step 1 Press the knob to enter the device menu.
- Step 2 Select Screen Brightness and press the knob to confirm the selection.
- Step 3 Rotate the knob to adjust the brightness value, and the LED screen will display the effect in real-time. Then press the knob to apply the set brightness when you are satisfied with it.

5.2 Screen Settings

You can configure the screen to make it display the whole image correctly.

The options are **Quick Configuration** and **Advance Configuration**.

5.2.1 Quick Configuration

Preconditions

LED screen must be a regular screen.

- Cabinets of the screen must be regular cabinets with the same resolution.
- The following data flow settings are supported. During data flow settings, you must ensure that the physical connection of each port is along the same direction and downward to next one.



• During data flow settings, you must ensure that the Ethernet Port 1 is at the beginning position of the whole physical connection.

Procedure

- Step 1 Power on the LED screen.
- Step 2 Rotate the knob to choose **Screen Settings** > **Quick Configuration**, and press it to enter its submenu.

Figure 5-2 Quick configuration



- Step 3 Set **Cabinet Row Qty** and **Cabinet Column Qty** according to the actual row and column quantities of the cabinets.
- Step 4 Rotate the knob to **Port 1 Cabinet Qty** to set the quantity of the cabinets loaded by Ethernet port 1.

Step 5 Rotate the knob to Data Flow (Front View) and press it, then select an appropriate physical connection mode of the cabinets.
During data flow settings, you can view the real-time effects of different data flow settings on LED display by rotating the knob. When you are satisfied with the LED display image, press the knob to save the settings; when you are not satisfied, press ESC button to exit the current operation and the settings will not be saved.

5.2.2 Advanced Configuration

You can set the cabinet row and column quantities, horizontal offset, vertical offset and data flow of the cabinets loaded by a single Ethernet port.

Procedure

Step 1 Press the knob to enter the device menu.

- Step 2 Rotate the knob to choose **Screen Settings** > **Advanced Configuration**, and press it to enter its submenu.
- Step 3 Turn on the advanced configuration function, and then set the cabinet row and column quantities, horizontal offset, vertical offset and data flow for the target Ethernet port.

Figure 5-3 Advanced configuration



5.2.3 Save to RV Card

You can send and save the screen configuration to the receiving card. The configuration data will not be lost after the device is powered off.

5.2.4 More Settings

Step 1 Press the knob to enter the device menu.

Step 2 Rotate the knob to choose **Screen Settings** > **More Settings**, and press it to enter its submenu.

Mapping

You can turn on this function to display the sequence numbers of Ethernet ports and cabinets.

Figure 5-4 Mapping



Example: "P:05" stands for the Ethernet port number and "#001" stands for the cabinet number.

Note:

The receiving card employed by the system must support the Mapping function.

LED Screen Color

You can adjust the screen color and the LED screen will display the effect in real- time.

Table 5-1 Screen color parameters

Parameter	Description
Color temperature	You can set the color to Standard , Cool , Warm and Custom . Custom allows you to adjust individual R, G or B value.
Gamma	The range is 1.0–4.0 and the stepping is 0.1.

Figure 5-8 Color temperature effect

Standard



Cool







5.3 Layer Settings

Step 1 Press the knob to enter the device menu.

Step 2 Rotate the knob to select **Layer Settings** and press the knob to enter the layer settings screen where you can set the followings.

- Main layer
- PIP
- Layout
- BKG

5.3.1 Main Layer and PIP

Menu	Description
Status	The status of the selected layer: On and Off Note: Press the PIP button in FUNCTION area on the device front panel to enter the PIP settings screen and turn on the PIP.
Input Source	The input source of the layer Note: Press the input source button in SOURCE area on the device front panel to select the input source for the main layer, and hold down the button to select the input source for the PIP.

Scaling Mode	The options are Full Screen, Pixel to Pixel and Custom.
H Width	The horizontal width of the layer
	The default value for the main layer and PIP is 1920 and 800 respectively. The range is 64–32768.
V Height	The vertical height of the layer
	The default value for the main layer and PIP is 1080 and 600 respectively. The range is 64–32768.
Initial X	The initial horizontal coordinate of the layer
Initial Y	The initial vertical coordinate of the layer
Input Crop	The function of cropping the input source image and displaying it in full screen
	• Status: You can turn on or turn off this function for the selected layer.
	 H Width: The horizontal width of the current input source. If no input source is detected, the default value is 1920.
	 V Height: The vertical height of the current input source. If no input source is detected, the default value is 1080.
	 Initial X: The horizontal initial coordinate of the cropped part upon the current input source. The range is 0-horizontal width of input source and the default value is 0.
	• Initial Y: The vertical initial coordinate of the cropped part upon the current input source. The range is 0-vertical height of input source and the default value is 0.
Priority	The layer priority. The options are 1 and 2 .
	1: Send the layer to the back.2: Bring to the layer to the front.
Reset	Reset all the layer parameters to default settings.

Figure 5-9 Layer parameter descriptions





Figure 5-10 Input crop

5.3.2 Layout

The VP10HD-J supports 10 layer layouts.

- P: PIP
- M: Main layer

Layout	Description
O	Custom layout
P M	The PIP is located at the top left corner of the main layer.

Layout	Description
M	The PIP is located at the bottom left corner of the main layer.
MP	The PIP is located at the top right corner of the main layer.
M P	The PIP is located at the bottom right corner of the main layer.
M P	The PIP is located at the center of the main layer.
PM	The PIP is located at the left of the main layer.
MP	The PIP is located at the right of the main layer.
P M	The PIP is located at the top of the main layer.
M P	The PIP is located at the bottom of the main layer.

Note:

For \mathbf{PM} , \mathbf{MP} , \mathbf{PM} or \mathbf{PM} layout, the aspect ratio of the main layer and PIP is not kept. The main layer and PIP together fill the screen according to the selected layout.

5.3.3 BKG

You can set the background for the displayed image. The BKG is located at the back.

Menu	Description	
Status	The status of the BKG: On and Off (default)	
Туре	The options area Pure Color and Image .	
Pure Color BKG	You can adjust the individual R, G or B value to set a pure color BKG.	
Capture	 Source: Select an input source. Save To: Set the save location of the captured image. The options include BKG 1 / BKG 2 / BKG 3 / BKG 4. Apply: Save the captured image to the selected save location. At most 4 BKG images are supported. 	

Figure 5-11 Capturing input source image



5.4 Input Settings

5.4.1 Input Source

The VP10HD-J supports DP, HDMI, SDI-1, SDI-2 and DVI input connectors.

Rotate the knob to select the desired input source and press the knob to enter the input source resolution menu.

Input Settings	
DP	>
HDMI	>
SDI-1	>
SDI-2	>
DVI	>

Figure 5-12 Selecting input source

5.4.2 Setting Input Source Resolution

You can adjust the resolution and frame rate of the input source through the following two ways.

- Standard resolution
- Custom resolution

Figure 5-13 Setting input source resolution



Note:

SDI input source does not support resolution settings.

Standard Resolution

You can select a standard resolution and frame rate. Then rotate the knob to select **Apply** and press the knob to make the settings take effect.

Figure 5-14 Standard resolution



Table 5-2 Standard connector resolutions

Standard resolutions		HDMI 2.0	Dual-DVI	Single-DVI
1024×768@ (48/50/59.94/60/75/85) Hz	\checkmark	\checkmark	\checkmark	\checkmark
1280×720@ (23.98/24/25/29.97/30/48/50/59.94/60) Hz	V	\checkmark	\checkmark	\checkmark
1280×1024@ (48/50/59.94/60/75/85) Hz	√	\checkmark	\checkmark	\checkmark
1364×768@ (50/59.94/60) Hz		\checkmark		
1366×768@ (50/59.94/60) Hz	\checkmark		\checkmark	\checkmark
1440×900@ (60/75/85) Hz	\checkmark	\checkmark	\checkmark	\checkmark
1600×1200@ (48/50/59.94/60) Hz	\checkmark	\checkmark	\checkmark	\checkmark
1680×1050@60Hz	\checkmark	\checkmark	\checkmark	\checkmark
1920×1080@ (23.98/24/25/29.97/30/48/50/59.94/60) Hz	V	\checkmark	\checkmark	V
1920×1200@ (50/59.94/60) Hz	\checkmark	\checkmark	\checkmark	\checkmark

2048×1080@ (30/48/50/59.94/60) Hz	\checkmark	\checkmark	\checkmark	\checkmark
2048×1152@ (30/60) Hz	√	\checkmark	\checkmark	\checkmark
2560×1080@ (50/59.94/60) Hz	√	\checkmark	\checkmark	
2560×1600@ (50/59.94/60) Hz	\checkmark	\checkmark	\checkmark	
2560×1600@120Hz	√	\checkmark		
3840×1080@30Hz	\checkmark	\checkmark	\checkmark	\checkmark
3840×1080@ (50/59.94/60) Hz	\checkmark	\checkmark	\checkmark	
3840×1080@120Hz	\checkmark	\checkmark		
3840×2160@ (23.98/24/25/29.97/30) Hz	\checkmark	\checkmark	\checkmark	
3840×2160@ (50/59.94/60) Hz	\checkmark	\checkmark		

Custom Resolution

Rotate the knob to set a custom width, height and frame rate. Then rotate the knob to select **Apply** and press the knob to make the settings take effect. If you do not press the knob, the settings will not take effect.



5.4.3 DVI Mosaic

Step 1 Rotate the knob to choose **Input Settings** > **DVI**.

Step 2 Rotate the knob to set the DVI input mode as **Single Link** or **Dual Link**. The connector working mode is shown in below.

Figure 5-16 Single link mode



Figure 5-17 Dual link mode



- Step 3 In single link mode, the resolutions of DVI 1, 2, 3 and 4 are adjusted together. In dual link mode, the resolutions of DVI 1 and 3 are adjusted together. For resolution adjustment, please refer to 5.4.2 Setting Input Source Resolution.
- Step 4 Rotate the knob to select **DVI Mosaic** and press the knob to enter the DVI mosaic settings menu.

Menu	Description	
Layout	Set the mosaic layout for 4 DVI connectors.	
	 Single link mode supports 7 layouts: , , , , , , , , , , , , , , , , , , ,	
	• Dual link mode supports 2 layouts: and	
Width	Adjust the width of the individual mosaic area.Single link: The default width is 1920 and the range is 64– 2048.Dual link: The default width is 3840 and the range is 64– 4096.	
Height	 Adjust the height of the individual mosaic area. Single link: The default width is 1080 and the range is 64– 1200. Dual link: The default width is 1080and the range is 64– 2160. 	
Apply	Make the settings take effect.	

Note:

Only one interlaced SDI input is supported in DVI mosaic mode of four connectors.

5.5 Image Mosaic

When the pixel count of the LED screen is larger than the loading capacity of a single VP10HD-J unit, the image mosaic function is required. The total loading capacity of all cascaded VP10HD-J units equals to the total pixel count of the LED screen.

Figure 5-18 Image mosaic parameters

Image Mosaic			
Status	On		
Total H Pixels	7680		
Total V Pixels	4320		
Load Area Width	3840		
Load Area Height	2160		
Load Area Initial X	0		
Load Area Initial Y	0		

Example: If the pixel count of the LED screen is 7680×4320 which exceeds the loading capacity of a single VP10HD-J unit, 4 VP10HD-J units are used together for image mosaic. The connections are shown in the below figure.

Device No.	Load Area Width	Load Area	Load Area	Load Area Initial Y
1	3840	2160	3840	0
2	3840	2160	0	0
3	3840	2160	0	2160
4	3840	2160	3840	2160

Table 5-3 Parameter settings

5.6 Preset Settings

The VP10HD-J supports 10 user presets. User can save, load and clear the configured presets.

- Step 1 Rotate the knob to select **Preset Settings** and press the knob to enter the submenu.
- Step 2 Rotate the knob to select the desired preset and press the knob to pop up a dialog box. In the box, four preset operations are provided: Save, Load, Clear or Copy To.



Figure 5-20 Preset operations

- Save: Save the current layer layout and settings to the target preset.
- Load: Load the selected preset to current lay layout.
- Clear: Clear all the contents in the selected preset.
- Copy To: Copy the current preset to the target preset.

Note:

- If the target preset has data, **Copy To** operation will overwrite the existing data in the preset.
- You can also press the number button on the front panel to quickly load a preset. For example, press the button 1 to load 1-Preset 1 and press the button 2 to load 2-Preset 2, and so on.

5.7 Display Control

This function is used to control the display. You can set the display to go black, display a test pattern, or go to normal display. You can also set the transition effect and effect duration.

- Step 1 Press the knob to enter the device menu.
- Step 2 Rotate the knob to select **Display Control** and press the knob to enter the display control screen where you can set the followings.
 - Normal: Display the content of current input source normally.
 - Freeze: Freeze the current frame of the output image.
 - Black Out: Make the screen go black.
 - Test Pattern: Test the display effect and working status of the LED screen. Test patterns include **Pure Color**, **Gradient**, **Grid**, **Brightness**, **Spacing** and **Speed**.
 - Image Color: Adjust the color of the output image and the LED screen will display the effect in real-time.

Menu	Description	
Brightness	The range is 0–100 and the stepping is 1.	
Contrast	The range is 0–100 and the stepping is 1.	
Saturation	The range is 0–100 and the stepping is 1.	
Hue	The range is -180–180 and the stepping is 1.	

Table 5-4 Image color parameters

- Transition Effect: Set the transition effect when switching the input source.Fade effect is supported.
- Effect Duration: Set the duration of the transition effect. The range is 0.5s–2s and the default setting is 0.5s.

5.8 Advanced Functions

Advanced functions include HDR, low latency, OPT mode and self-test settings.

5.8.1 HDR

HDR is the abbreviation for High-Dynamic Range. HDR function can greatly enhance the display image quality, allowing for a clearer and vivid image when the device is used together with TWT receiving cards.

Figure 5-22 HDR effect



Step 1 Choose **Advanced Functions** > **HDR** > **Status** to enable the HDR function.

Step 2 Rotate the knob to adjust the value of each parameter to improve the image quality.

Menu	Description
Peak Screen Brightness	Adjust the screen brightness under normal operation. The range is 100–1000 and the default setting is 1000 .
Ambient Brightness	Display the ambient brightness. The range is 0–200 and the default setting is 30 .
Low Grayscale Mode	The range is 0–50 and the default setting is 15 .

Step 3 (Optional) Select **Reset** to reset all the parameters to default values.

Note:

- Only HDR10 input source is supported.
- When HDR function is enabled, the output loading capacity will be reduced by 50%.

5.8.2 Low Latency

Low latency reduces the input source signal latency from input to output image of the VP10HD-J. This function can reduce the latency from sending card to receiving card by 2 frames when the device is used together with TWT Armor series receiving cards.

Note:

- The loading width of a single Ethernet port should be no greater than 512 pixels when low latency function is used.
- The supported Armor series receiving cards include A8, A8s, A9s and A10s Plus.

5.8.3 OPT Mode

The VP10HD-J supports two OPT modes: Hot Backup (default) and Copy.

- Hot Backup: Optical fiber ports 3/4 backup the data of optical fiber ports 1/2.
- Copy: Optical fiber ports 3/4 copy the data of optical fiber ports 1/2.

Hot Backup

Step 1 Perform the hardware connections for hot backup mode.



Figure 5-23 Connections for hot backup mode

Step 2 Choose **Advanced Functions** > **OPT Mode** > **Hot Backup** to set the OPT mode as hot backup.

Сору

- Step 1 Perform the hardware connections for copy mode.
- Step 2 Choose **Advanced Functions** > **OPT Mode** > **Copy** to set the OPT mode as copy.

Figure 5-24 Code



5.8.4 Self-Test

You can test the device by yourself when the device fails, then feedback the result to TWT.

5.9 General Settings

Figure 5-25 General settings

len	eral Settings	
	Hot Backup	Set as Primary
	Synchronization	>
	Fn	Synchronization
	Output Frame Ra	ate 60Hz
	Return to Home	30s
	Factory Reset	
	About Us	>

5.9.1 Hot Backup

The VP10HD-J supports two hot backup modes: **Set as Primary** and **Set as Backup**. Figure 5-23 shows the application for this function.

- Set as Primary: The target Ethernet port on the home screen is highlighted. For example, 1.
- Set as Backup: The target Ethernet port on the home screen is highlighted and displayed with a small triangle icon at the bottom right. For example,

When the primary device fails, the backup device will take over the work in real time.

5.9.2 Synchronization

You can select a synchronization signal to synchronize the cascaded devices.

- Step 1 Rotate the knob to select **Synchronization** and press the knob to enter the submenu.
- Step 2 Rotate the knob to set the synchronization status and source respectively.
 - Status: Turn on or turn off this function. It is off bydefault.
 - Source: Select the target input source.

Note:

When the input source resolution is changed or the input source cable is replugged, you need to re-set the function. Please turn off the function and turn it on again.

5.9.3 Fn

The **Fn** button on the device front panel can be customized to a **Synchronization**, **Preset Settings**, **Freeze**, **Black Out**, **Test Pattern**, **Quick Configuration**, **Image Color**, **Main Layer** or **Priority** shortcut button.

5.9.4 Output Frame Rate

You can set the output frame rate of the image output by Ethernet port. The range is 23.98 Hz–120 Hz and the default setting is 60 Hz.

5.9.5 Return to Home

You can set the period of time during which the system stays at the current page before returning to the homepage automatically when there is no operation performed. The default setting is 60s and the maximum value is 3600s.

5.9.6 Factory Reset

You can reset all user data on the device to factory settings.

5.9.7 About Us

You can view the following information.

Device hardware version

5.10 Partial Reset

You can keep the saved parameters and reset the unsaved parameters to factory settings.

The unsaved parameters include renaming, loading RCFGx files, BKG image files, preset parameters, Fn button settings, IP & mask parameters and language settings.

5.11 Communication Settings

5.11.1 Communication Mode

The device is connected to the PC via both USB port and Ethernet port. The communication modes include **USB Preferred** and **LAN Preferred**.

Figure 5-26 Communication mode

Communication Settings				
Communication Mode	USB Preferred			
Network Settings	>			

- When USB Preferred is selected, the device communicates with the PC via USB port by preference.
- When LAN Preferred is selected, the device communicates with the PC via Ethernet port by preference.

5.11.2 Network Settings

The network setting modes include Manual and Auto.

- Manual: Set the device IP address and subnet mask manually.
- Auto: The device reads the network parameters automatically.
- Reset: Reset the parameters to defaults.

Figure 5-27 Network settings

Network Settings	
Mode	Auto
IP Address	192.0.0.0
Subnet Mask Reset	0.0.0.0

Note:

- 1. When communicating with the control PC, the device and control PC must be on the same LAN.
- 2. The IP address of current device cannot conflict with IP addresses of other devices.

5.12 Working Mode

The VP10HD-J can work as a Video Controller (default) or Fiber Converter.

Step 1 Press the knob to enter the device menu.

- Step 2 Rotate the knob to select **Working Mode** and press the knob to enter the working mode screen to select a desired mode.
 - Video Controller: Both Ethernet ports and optical fiber ports are used for output.
 - Fiber Converter: Optical fiber ports are used for input, and Ethernet ports are used for output.

Figure 5-28 Video controller mode



Figure 5-29 Fiber converter mode



Specifications

Overall Specifications				
Туре	Description			
Power connector	AC100-240V~, 50/60Hz			
Operating temperature	0°C-50°C			
Dimensions	482.6 mm × 396.5 mm × 139.0 mm			
Overall power consumption	70 W			
Net weight	6.3 kg			
Packing dimensions	615.0 mm × 290.0 mm × 525.0 mm			



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