



# ALL-IN-ONE CONTROL



Catalogue



# 1 Overview

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The TW6S is an all-in-one controller that integrates sending card functions with video processing. Designed with powerful video processing capability, it supports 7 video inputs and 6 Gigabit Ethernet outputs.

Based on the powerful FPGA processing platform, the TW6S supports multiple transition effects, such as quick seamless switching and fade, providing flexible display controlling and outstanding video presentations.

The TW6S is equipped with an expansion card which can connect a USB drive to play the media files stored in it. By connecting a mouse and monitor, the USB playback can be intuitively monitored in real-time.

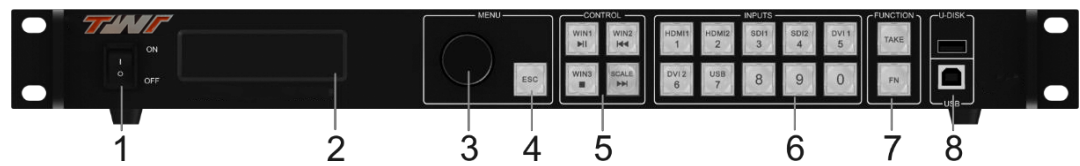
# 2 Features

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- Features 7 input connectors: 2 × 3G-SDI (or 2 × CVBS), 2 × HDMI 1.4 (or 1×DP, 1×HDMI), 2 × DVI, 1 × DVI+DVI LOOP and 1 × USB playback (media port).
- Supports 3 × windows.
- Supports quick and advanced screen configurations.
- Switches the PVW to PGM by pressing only the TAKE button in the switcher mode.
- Provide seamless high-speed switch and fade-in/ fade-out effect so as to strengthen and display picture demonstration of professional quality;
- 10bit/8bit HD video source; There are ports that support DVI, HDBT, SPDIF (via converter)
- Supports adjustment of input resolutions.
- Supports device redundancy settings.
- The maximum loading capacity of video output is 3.9 million pixels.
- Supports brightness adjustment of the screen loaded by the TW6S.
- Multiple TW6S units can be cascaded.
- Supports auto fit function of windows.
- The maximum video output width and height are both 4096 pixels.
- A total of 16 user presets can be created and saved as templates. The templates can be used directly and conveniently by pressing the number buttons on the front panel.
- Any HDMI or DVI input source can be used as the synchronization signal to achieve vertical synchronization of outputs of multiple devices.
- Minimum support features: NOC Supported, IPv6, AV Sync.
- Allow image mode in Picture In Picture mode.
- Ability to support color and color correction.
- Synthesis of software and Integrated virus scanning capabilities on USB.
- Support for various types of color calibration with software on PC and mobile applications.

# 3 Appearance

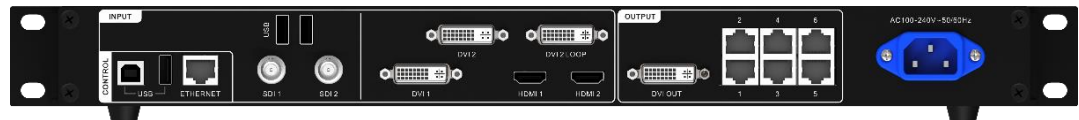
## Front Panel



No.	Button	Function
1	ON/OFF button	Power button
2	OLED screen	Displays the current status and setting menu of the device.
3	Knob	<ul style="list-style-type: none"> <li>On the home screen, pressing the knob enters the operation menu screen.</li> <li>On the operation menu screen, rotating the knob selects a menu item, and pressing the knob confirms the selection or enters the submenu.</li> <li>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.</li> </ul>
4	ESC button	Pressing the button exits the current menu or operation.
5	Window control buttons	Pressing a button enters the corresponding window property menu. Statuses of button indicators: <ul style="list-style-type: none"> <li>On: The window is open.</li> <li>Off: The window is closed.</li> <li>Flashing: The window is being edited.</li> <li>When a window is open, holding down the window button can close the window.</li> <li>In the USB playback mode, you can play, pause, play</li> </ul>

		<p>previous, play next or stop current playback.</p> <ul style="list-style-type: none"> <li>• <b>SCALE:</b> This is a shortcut button for auto fit function. You can press this button to make the window of the lowest priority fit the screen.</li> </ul>
6	Input source buttons	<p>Pressing the button switches the input source for the window. The button indicators indicate the statuses of the input source. Button indicator descriptions:</p> <ul style="list-style-type: none"> <li>• Always on: The signal source is accessed.</li> <li>• Flashing: The input source is in use, but no signal source is accessed.</li> <li>• Off: The input source is not in use and no signal source is accessed.</li> </ul>
7	Function buttons	<ul style="list-style-type: none"> <li>• <b>TAKE:</b> In the switcher mode, pressing the <b>TAKE</b> button can switch the PVW to PGM seamlessly with the transition effect set previously.</li> <li>• <b>FN:</b> A custom menu button. In USB playback mode, press the button to play the media files in USB drive.</li> </ul>
8	USB	<ul style="list-style-type: none"> <li>• USB (Type-B): Connects to the upper computer.</li> <li>• USB (Type-A): A reserved port</li> </ul>

## Rear Panel



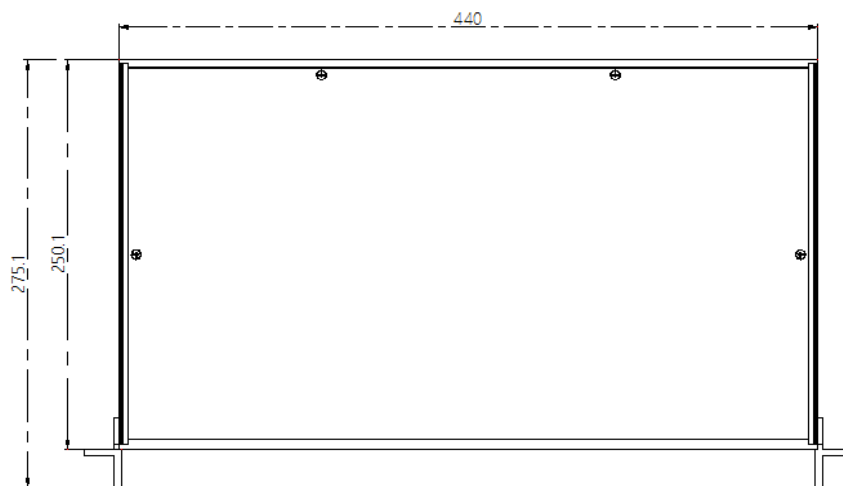
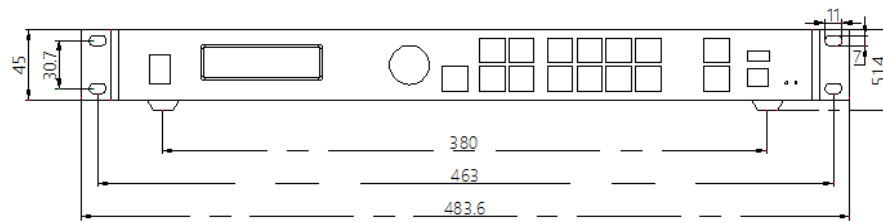
Input		
Connector	Quantity	Description
3G-SDI	2	<ul style="list-style-type: none"> <li>• Supports input resolutions up to 1920×1080@60Hz and downward compatibility.</li> <li>• Supports both progressive and interlaced signals.</li> <li>• SDI1 supports de-interlacing.</li> </ul>
USB 2.0	2	<p>Connects to a mouse/keyboard, or connects to a USB drive to play media files stored in the drive. The supported USB drives and the formats of the media files in it are described as follows.</p> <ul style="list-style-type: none"> <li>• USB drive (media port): FAT/FAT32 The USB drive cannot be a partitioned one or used as the system startup disk.</li> <li>• Picture file format: JPG, JPEG, BMP, PNG and WEBP</li> <li>• Video file format: MP4, AVI, MKV, MOV, 3GP, FLV and MPG Video coding: MPEG-1/2, MPEG-4, H.264/AVC, MVC, H.265/HEVC, H.263, GOOGLE VP8, VC-1 and MOTION JPEG</li> </ul>

		<ul style="list-style-type: none"> <li>• Audio file format: MP3, WMA, WAV and 3GP Audio coding: <ul style="list-style-type: none"> <li>- MPEG Audio: MPEG1/2/2.5 Audio Layer1/2/3</li> <li>- Windows Media Audio: WMA Version4/4.1/7/8/9, wmapro</li> <li>- WAV Audio: MS-ADPCM, IMA-ADPCM, PCM</li> <li>- FLAC Audio: Compress Level 0-8</li> <li>- AAC Audio: ADIF, ATDS Header AAC-LC and AAC-HE, AAC-ELD</li> <li>- AMR Audio: AMR-NB,AMR-WB</li> </ul> </li> </ul>
DVI	2	<ul style="list-style-type: none"> <li>• VESA standard Supports input resolutions up to 1920×1200@60Hz and downward compatibility.</li> <li>• Supports HDCP.</li> <li>• Supports only progressive signals.</li> </ul>
3G-SDI LOOP	1	3G-SDI loop output connector
HDMI	2	<ul style="list-style-type: none"> <li>• Supports input resolutions up to 1920×1200@60Hz and downward compatibility.</li> <li>• Supports HDCP.</li> <li>• Supports only progressive signals.</li> </ul>
<b>Output</b>		
<b>Connector</b>	<b>Quantity</b>	<b>Description</b>
Ethernet	6	6 Ethernet outputs
DVI	1	A monitoring connector, which can be set to preview the editing image or monitor the PGM
<b>Control</b>		
<b>Connector</b>	<b>Quantity</b>	<b>Description</b>
ETHERNET	1	Connects to the PC for communication, or to the network.
USB (Type-B)	1	<ul style="list-style-type: none"> <li>• Connects to the PC for device control.</li> <li>• Used as the input connector for cascading devices</li> </ul>
USB (Type-A)	1	Used as the output connector for cascading devices
Model Type	-L -K	<ul style="list-style-type: none"> <li>- L: 2 × 3G-SDI , 2 × HDMI 1.3, 2 × DVI, 1 × DVI+DVI LOOP and 1 × USB playback.</li> <li>- K: 2 x CVBS, 1xDP, 1xHDMI , 2 × DVI, 1 × DVI+DVI LOOP and 1 × USB playback.</li> </ul>
<b>Overall Specifications</b>		
Electrical Parameters	Power consumption	50 W
	Power supply	AC100V~240V 50/60Hz
Operating Environment	Temperature	-20°C to +70°C
	Humidity	20% RH to 90% RH

Storage environment	Humidity	10% RH to 90% RH
Physical Specifications	Dimensions	483.6 mm × 275.1 mm × 45.0 mm
	Net weight	2.71 kg
	Total weight	5.9 kg
	Noise Level	40 dB(A)
Packing Information	Carrying case	530 mm × 370 mm × 140 mm
	Accessory box	402 mm × 347 mm × 65 mm Accessories include: 1 × power cable 1 × power cable (US) 1 × power cable (EU) 1 × USB cable 1 × DVI cable 1 × HDMI cable 1 × Ethernet cable
	Packing box	550 mm × 400 mm × 175 mm
Certifications		CE, RoHS, FCC, IC, RCM, CB

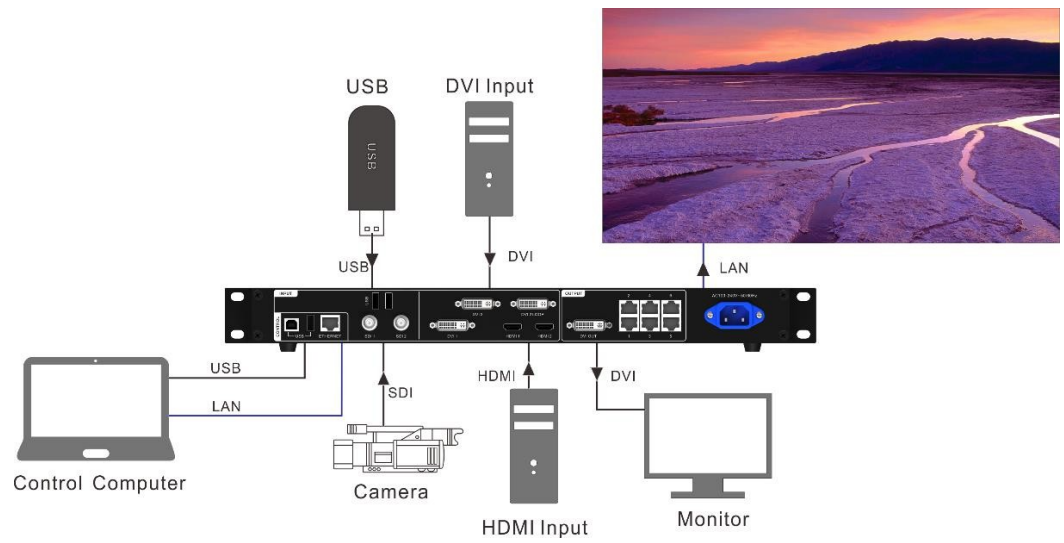
# 4 Dimensions

Unit: mm





# 5 Applications





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ADDRESS : 68 SUNGEI KADUT LOOP # 06 - 01 NUTZ CENTER , SINGAPORE 729504

TEL : +65 6367 3272 FAX : +65 6367 0763