VM-HD4

4ch HD CCTV Multiplexer

Manufactured exclusively for CCTV Camera Pros
1. Introduction

The VM-HD4 is a 4 channel CCTV video multiplexer (quad processor) that works with HD-TVI, HD-CVI, AHD, and Analog CCTV cameras (CVBS). Users can view live video from multiple cameras on a HD TV or monitor 1080p resolution using the HDMI or VGA video output.

2. Characteristics

- 4 channel video input, each channel can accept TVI/AHD/CVI/D1, the format of input video (D1/AHD/TVI/CVI) and video mode (PAL/NTSC) setting.
- For each channel, the brightness, contrast, saturation and hue can be adjusted.
- Support 2 channel CVBS output (NTSC : 720X480, PAL : 720X576).
- Support HDMI/VGA output and the resolution of the output can be adjusted (1024x768, 1280x1024, 1440x900, 720P/50/60, 1080P/50/60).
- Support multiple display modes, including QUAD, 2CH (LEFT/RIGHT), 2CH(UP/DOWN), 3CH, single channel and PIP mode.
- The output channel of PIP mode can be selected in the menu.
- Hight performance FREEZE function.
- Channel auto sequence, the interval time can be adjusted in the menu (3–99 seconds).
- Digital ZOOM function.
- Video loss alarm.
- Users can operate device by keyboard and remote control.

3. Front panel

The KEY define: short key <1s, longkey >1s
- “MEUN/A/B”: long press to enter main menu, short press to enter QUAD mode.
- “FRZ/AUTO”: short press to enter freeze function, long press to enter autoseq function.
- “MODE/ZOOM”: short press to enter mode function, long press to enter zoom function.
- “ENTER”: enter button.
- “↑”: 1CH/UP multi-function button.
- “↓”: 2CH/DOWN multi-function button.
- “←”: 3CH/LEFT multi-function button.
- “→”: 4CH/RIGHT multi-function button.

4. Rear panel

- “CAM1~4”: 1~4CH video input.
- “OUT1~2”: CVBS output.
- “HDMI”: HDMI output.
- “VGA”: VGA output.
• “DC12V” : 12V power input,

5. FREEZE Function

Press the FREEZE button to enter freeze mode. Press again to exit the freeze mode. Show/Hide the FREEZE font on the right top of monitor simultaneously.

6. AUTOSEQ Function

Press the AUTOSEQ button to enter/exit the AUTOSEQ mode, show/hide the AUTOSEQ font on the right top of monitor simultaneously.

7. MODE Function

Press the button to switch the output mode except the QUAD, single channel mode.

8. ZOOM Function

Press the ZOOM button to enter/exit ZOOM mode, show/hide a red frame simultaneously, move the red frame using the UP/DOWN/LEFT/RIGHT Button to select the desired zoom region, enable/disable the zoom function to zoom the region using the ENTER button.

Caution: you must exit the zoom mode for another operation.

9. MENU Operation

Press the MENU button to show/hide the main menu. The main menu includes 6 items as follow, press the UP/DOWN button to select the item, press the ENTER button to enter the item.

<table>
<thead>
<tr>
<th>INPUT SETTING</th>
<th>DISPLAY SETTING</th>
<th>IMAGE SETTING</th>
<th>AUTOSEQ SETTING</th>
<th>PIP SETTING</th>
<th>SYSTEM RESET</th>
</tr>
</thead>
</table>

9.1 INPUT SETTING.

As follows move to the desired position using the UP/DOWN/LEFT/RIGHT button, select the item using the ENTER button, press the MENU button to apply the new setting and back to the main menu.

• “D1/AHD/TVI/CVI” : The type of input video.

• “PAL/NTSC” : The mode of input video.

<table>
<thead>
<tr>
<th>INPUT SETTING</th>
<th>VIDEO MODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1 D1 AHD TVI CVI</td>
<td>PAL NTSC</td>
</tr>
<tr>
<td>CH2 D1 AHD TVI CVI</td>
<td></td>
</tr>
<tr>
<td>CH3 D1 AHD TVI CVI</td>
<td></td>
</tr>
<tr>
<td>CH4 D1 AHD TVI CVI</td>
<td></td>
</tr>
</tbody>
</table>

9.2 DISPLAY SETTING
As follows, move to the desired position using the UP/DOWN/LEFT/RIGHT button, select the item using the ENTER button, press the MENU button to apply the new setting and back to the main menu.

**DISPLAY SETTING**

<table>
<thead>
<tr>
<th>HDMI/VGA RESOLUTION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1024X768</td>
<td>720P/60HZ</td>
</tr>
<tr>
<td>1280X1024</td>
<td>1080P/50HZ</td>
</tr>
<tr>
<td>1440X900</td>
<td>1080P/60HZ</td>
</tr>
<tr>
<td>720P/50HZ</td>
<td></td>
</tr>
</tbody>
</table>

**DATE/TIME**: Enable/Disable and Setting the date/time of system. press the ENTER to enter/exit the function, adjust the position by the LEFT/RIGHT button and adjust the digit by the UP/DOWN button.

**BUZZER**: Open/Close the buzzer.

**9.3 IMAGE SETTING**

As follow, move to the desired position using the UP/DOWN button, adjust the value using the LEFT/RIGHT button, press the MENU button to back to the main menu.

**IMAGE SETTING**

- **BRIGHTNESS**: Adjust the brightness of input video(0~99).
- **CONTRAST**: Adjust the contrast of input video(0~99).
- **SATURATION**: Adjust the saturation of input video(0~99).
- **HUE**: Adjust the hue of input video(0~99).
- **TITLE**: Setting the label of video channel, press the ENTER to enter/exit the function, adjust the position by the LEFT/RIGHT button and adjust the character by the UP/DOWN button.

**Caution**: you must be exit the title mode (blue bar will hide) for other operate.

**9.4 AUTOSEQ SETTING**

As follow, move to the desired position using the UP/DOWN button, adjust the value(3~99s) using the LEFT/RIGHT button, press the MENU button to back to the main menu.
9.5 PIP SETTING

As follow, move to the desired position using the UP/DOWN button, adjust the output channel of main channel and sub channel using the LEFT/RIGHT button, press the MENU button to back to the main menu.

9.6 SYSTEM RESET

As follow, move to the desired position using the LEFT/RIGHT button, press ENTER button to enter and back to the main menu.

10. Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>VM-HD4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Input</td>
<td>4CH TVI/AHD/CVI/D1</td>
</tr>
<tr>
<td>Feature</td>
<td>Specification</td>
</tr>
<tr>
<td>----------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Video Output</td>
<td>HDMI/VGA/CVBS</td>
</tr>
<tr>
<td>Power Supply</td>
<td>12V/1A</td>
</tr>
<tr>
<td>Consumption</td>
<td>&lt;4W</td>
</tr>
<tr>
<td>Working Temperature</td>
<td>-10°C ~ +55°C</td>
</tr>
<tr>
<td>Working Humidity</td>
<td>10% ~ 90%</td>
</tr>
<tr>
<td>Dimension</td>
<td>210x150x40mm</td>
</tr>
</tbody>
</table>

For more information, please visit the product page on our website.