

# 16ch HD-TVI AHD, HDCVI Analog CCTV Video MULTIPLEXER

## VM-HD16 Specification and User Manual

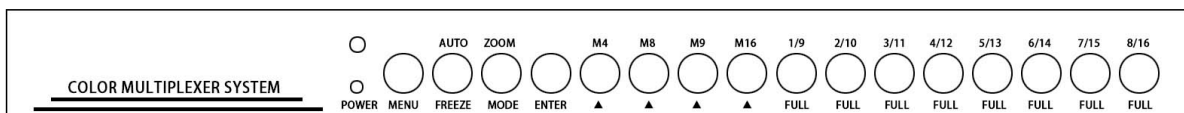
### 1. Introduction

The VM-HD16 is a hybrid analog CCTV / HD CCTV video multiplexer that is compatible with the following types of security cameras: HD-TVI, AHD, HDCVI, and analog CCTV.

### 2. Characteristics

- 16 channel BNC video input. Each channel can accept TVI, AHD, CVI, and analog CCTV video. Video resolutions: D1, 960H, 1080p, 720p. All channels can be either PAL or NTSC.
- Separate brightness, contrast, saturation and hue controls for each channel.
- CVBS BNC video output (NTSC : 720X480, PAL : 720X576).
- HDMI and VGA video output. Supported resolutions: 1024x768, 1280x1024, 1440x900, 720P/50/60, 1080P/50/60.
- Selectable video display modes: 1ch w/optional sequence rotation, 2ch(left/right), 2ch(up/down), 3ch, 6ch, 8ch, 9ch, 16ch, and PIP mode.
- Output channel of PIP and 2CH mode can select by the menu.
- High performance FREEZE function.
- Channel rotation / auto sequence interval time can be adjusted by menu between 3-99 seconds.
- Digital ZOOM function.
- Video loss alarm.
- Users can operate device by keyboard and wireless remote control.
- Input, display, image, auto-sequence, language adjusted via menu system.

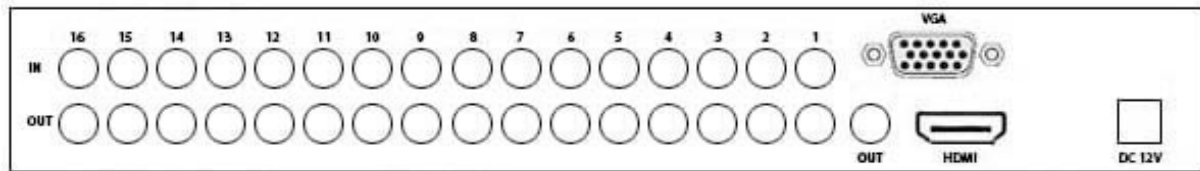
### 2. Front panel



KEY definition : short key press <1 second , long key press >1 second

- "MEUN" : short press to enter/exit main menu.
- "FREEZ/AUTO" : short press to enter freeze function, long press to enter auto-sequence function.
- "MODE/ZOOM" : short press to enter mode function, long press to enter zoom function.
- "ENTER" : enter button.
- "▲" : QUAD/UP multi-function button.
- "▼" : 8CH/DOWN multi-function button.
- "◀" : 9CH/LEFT multi-function button.
- "▶" : 16CH/RIGHT multi-function button.
- "1/9" : CH1/CH9 multi-function button.
- "2/10" : CH2/CH10 multi-function button.
- "3/11" : CH3/CH11 multi-function button.
- "4/12" : CH4/CH12 multi-function button.
- "5/13" : CH5/CH13 multi-function button.
- "6/14" : CH6/CH14 multi-function button.
- "7/15" : CH7/CH15 multi-function button.
- "8/16" : CH8/CH16 multi-function button.

## 4.Rear panel



- "IN 1~16" : 1~16 channel BNC video input.
- "OUT 1~16" : 1~16CH BNC video loop output.
- "OUT" : CVBS video output.
- "HDMI" : HDMI video output.
- "VGA" : VGA video output.
- "DC12V" : 12V power input.

## 5 . FREEZE Function

Press the FREEZE button to enter freeze mode. Press again to cancel the freeze function. Show/hide the FREEZE font on the right top of monitor simultaneously.

## 6 . AUTO-SEQUENCE Function

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

## 7 . MODE Function

Press the button to switch the output mode (PIP, 2CH, 3CH, 4CH, 5CH mode).

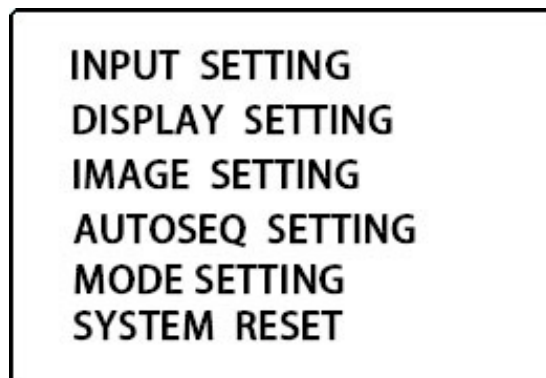
## 8 . ZOOM Function

Press the ZOOM button to enter/exit ZOOM mode. This shows/hides a red zoom frame. Move the red frame using the UP/DOWN/LEFT/RIGHT Button to select the desired zoom region, enable/disable the zoom function that the region using the ENTER button.

**Caution:** you must exit the zoom mode for modes to operate.

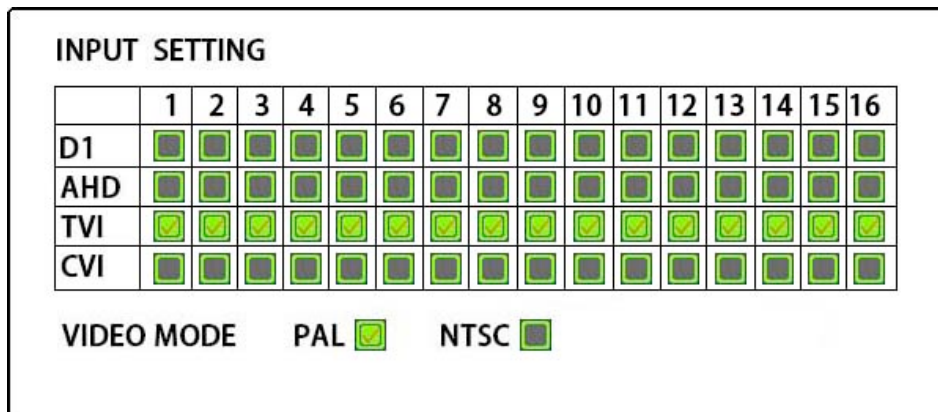
## 9 . MENU Operation

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.



### 9.1 INPUT SETTING.

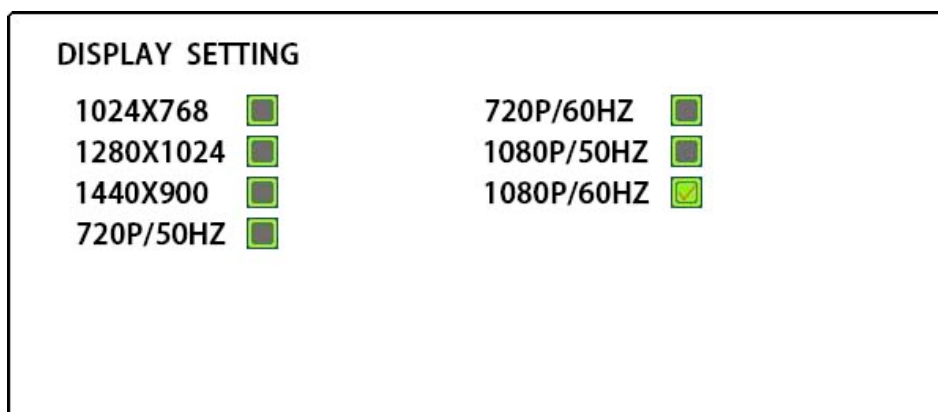
Move to the desired position using the UP/DOWN/LEFT/RIGHT button, select the item using the ENTER button, press the MENU button to apply the new setting and to go back to the main menu.



- “D1/AHD/TVI/CVI” : The type of input video.
- “PAL/NTSC” : The mode of input video.

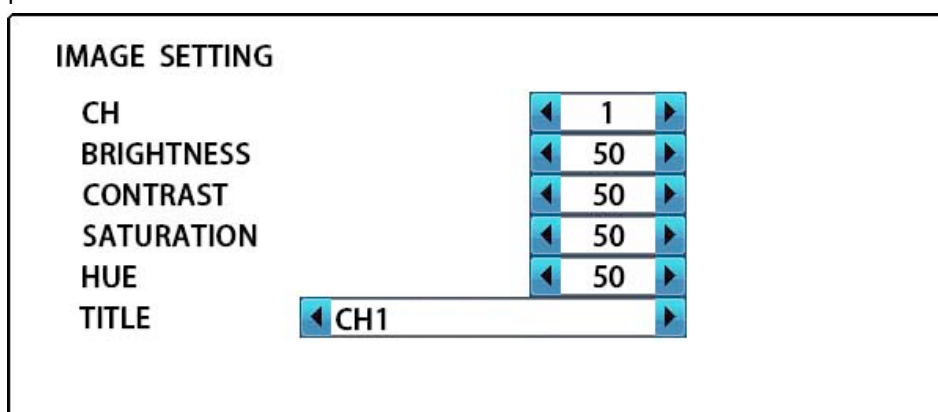
## 9.2 DISPLAY SETTING

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



## 9.3 IMAGE SETTING

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



- “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. Adjust the position using the LEFT/RIGHT buttons and adjust the character by the using the UP/DOWN buttons.

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

## 9.4 AUTO-SEQUENCE SETTING

Move to the desired position using the UP/DOWN buttons, adjust the value(0~99s) using the LEFT/RIGHT buttons. Press the MENU button to go back to the main menu.

<b>AUTOSEQ SETTING</b>	
CH NO	◀ 1 ▶
HOLD TIME(S)	◀ 05 ▶

## 9.5 MODE SETTING

Move to the desired position using the UP/DOWN buttons. Adjust the output channel by using the LEFT/RIGHT buttons. Press the MENU button to back to the main menu.

<b>MODE SETTING</b>	
PIP MODE:	
MAIN CHANNEL	◀ 1 ▶
SUB CHANNEL	◀ 2 ▶
2CH MODE:	
LEFT/UP CHANNEL	◀ 1 ▶
RIGHT/DOWN CHANNEL	◀ 2 ▶

## 9.6 SYSTEM RESET

Move to the desired position using the LEFT/RIGHT buttons. Press the ENTER button to enter go back to the main menu.

<b>WARNING</b>	
<b>THIS SYSTEM GETS TO LOSE THE CURRENT SETTING VALUE AND WILL BE INITIALIZED WITH FACTORY RESET MODE</b>	
<b>ARE YOU SURE?</b>	
<input type="button" value="YES"/>	<input type="button" value="NO"/>

## 10. Product Specification

Model	VM-HD16 Hybrid HD / Analog CCTV multiplexer
Video Input	16ch BNC
Video Output	1 HDMI, 1VGA, 1 BNC analog (CVBS)
Power Supply, Consumption	12V/1A, <4W
Dimension, Weight	420x200x45mm, 2.0kg
Working Temperature	-10°C~+55°C
Working Humidity	10%~90%

For more information, please visit this product page.

<https://www.cctvcamerapro.com/16ch-HD-CCTV-Multiplexer-p/vm-hd16.htm>