



16 Channel video input HD analog splitter

SC-16MHD

User's Manual



Precaution and Safety Guidelines

Please read this user's manual thoroughly prior to the use this unit for its easy and convenient use.

Caution (If you do not keep any of the below guidelines, you may get seriously injured or cause somebody's death)

- Please make sure to install this product after unplugging power plug. Also, do NOT use this product by connecting many power plugs simultaneously.
 - It may cause abnormal heat, fire or electric shock.
- Do NOT leave this product at any place that water falls or splashes. Also, do NOT put anything, which is full of water such as a flower vase, on this product.
 - It may cause the malfunction or fire of the product if liquid goes into it.
- Do NOT open the product case randomly, disassemble, repair or remodel this product on your own because there is some high voltage parts.
 - It may cause fire, electric shock or injury due to abnormal operation.
- Do Not install this product at a place where there is high humidity, dust or soot.
 - It may cause electric shock or fire.
- Please keep the installation place clean and wipe the place with a dry towel. Also, do NOT use water, thinner or organic solvent.
 - It may cause damage on the product surface and may cause product problem or electric shock.
- Please leave this product at a cool place which does not have direct rays of the sun, keep the temperature optimal in the installation place, and leave the installation equipment or tools far away from where is crowded.
 - It may cause fire.
- Be careful of the danger that may be caused at humid floor, ungrounded power extension cable, worn-out power cord, lack of safety ground connection. If any problem is found, please contact where you purchased this product.
 - It may cause fire or electric shock.
- Please keep at least 15 Cm for the back of this device from the wall and keep at least 5Cm for the sides of this device from the wall. Otherwise, the cables may be bent and/or cut due to the narrow space between the device and the wall, and may cause malfunction or fire.
 - It may cause fire, electric shock or injury.
- In case of the input voltage for the operation of this device, the voltage fluctuation must be within 10% of the rated voltage and the power outlet must be grounded. In addition, the power outlet for this device shall not be used for other electric heating appliances such as hairdryers, irons, refrigerators, etc.
 - It may cause abnormal overheat, fire or electric shock.
- When thundering or lightning, please unplug the power plug for your safety.

Caution (If you do not keep any of the below guidelines, you may get seriously injured or loss of property.)

- Do NOT install this product at where is exposed to strong magnetic or radio waves (RF) and adjacent to wireless devices such as radio or TV, etc.
- Do NOT install this product at where has too high or low temperature or humidity.

- The appropriate temperature for this product is between 0°C and 40°C.
- **Please take special care not to have this product any foreign substances inside, and do NOT put any heavy objects on this product.**
 - It may cause the malfunction of this product.
- **Please install this product at an well ventilated place and avoid of installing it near direct rays of the sun or hot-air balloon.**
- **Do NOT install this product at where has strong shock or vibration. Otherwise, it may cause some malfunction of this product.**
- **Do not use this product and please and please pull off the power plug immediately and contact to sales shop or service center when any smoke or sound is produced from the unit.**
 - It may cause fire or electric shock.
- **Please fix the product cover firmly and circulate air in the system operation center.**
 - The surrounding environment may cause the malfunction of this product.
- **Please have regular product inspection at the service center to keep the good condition of system function.**
 - We are not responsible for the product problem that is caused due to user's carelessness.
- **Please connect power plug to the grounded outlet.**
 - If you do not follow this manual, you may get electric shock or injury.
- **Please put power plug at where is available to be controlled easily.**
 - When any trouble occurs, the power plug shall be taken off for power down.
Power cannot be shut off completely by using power button of the product only.
- **When using this product adjacent to equipment which generates strong radio waves such as radio transceivers (walkie-talkies), repeaters, it may influence video signals, cause a malfunction of the device or some noise on the screen, or the screen may be broken, etc. Therefore, please do not use the influencing and relevant equipment where this device is installed and/or used.**
- **Please pull the power plug out when lightning strikes or it thunders.**
- **Transmission distance may vary, depending on coaxial cable type.**
- **If you need any other technical support except for things mentioned above, please do NOT hesitate to contact our A/S center.**
- **Please install this item into a flat and safe place. Do not stand it vertically or put it obliquely for use.**
 - It may cause the malfunction of this product or this item may fall and hurt others.
- **When a coaxial cable is being extended or terminated, it should be connected in the following way.**
 - BNC-M(Male) - BNC-JJ - BNC-M(Male): BNC Connector
- **Please make the joint part of the cables insulated completely not to expose the metal parts.**



1. Introduction

1-1. Overview

SC-16MHD is a 16 channel multiformat video digital splitter, which provides high-resolution display in various split modes in real time. This item supports various input such as AHD, TVI, CVBS and has various output ports to be compatible with many different external devices. Also, remote control operation is available through the RS-485 port. It displays the date, time and the name of channel on the monitor as well as any channel loss.

1-2. Features

- Various video input (AHD, TVI, CVBS)
- Support Loop through output
- Display video of 16 channels in real time
- Various split mode: 4, 6, 8, 9, 10, 16
- Auto sequence function
- RS-485 communication port for a remote control
- Alarm port: D-SUB(26Pin) Input, 1(Relay contact) Output
- Display and save the date and time when alarm and signal loss are generated
- Various video output resolution

HDMI: 1920x1080p 50/60Hz, 1280x720p 50/60Hz, 1024x768@60Hz

VGA: 1920x1080p 50/60Hz, 1280x720p 50/60Hz, 1024x768@60Hz

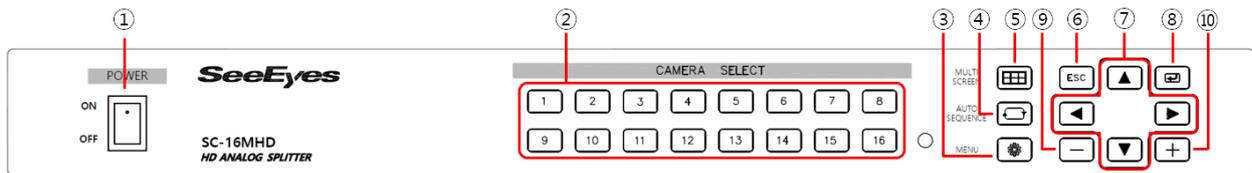
CVBS: NTSC, PAL

2. Components

<p style="text-align: center;">SC-16MHD</p>	<p style="text-align: center;">DC 12V Adapter</p>	<p style="text-align: center;">HDMI Cable</p>	<p style="text-align: center;">Rubber Feet & Screw</p>
			
<p style="text-align: center;">Mouse</p>	<p style="text-align: center;">BNC Cable</p>	<p style="text-align: center;">Rack Brackets & Screws</p>	<p style="text-align: center;">User's Manual</p>
			

3. Product Parts and Peripheral Device Connection

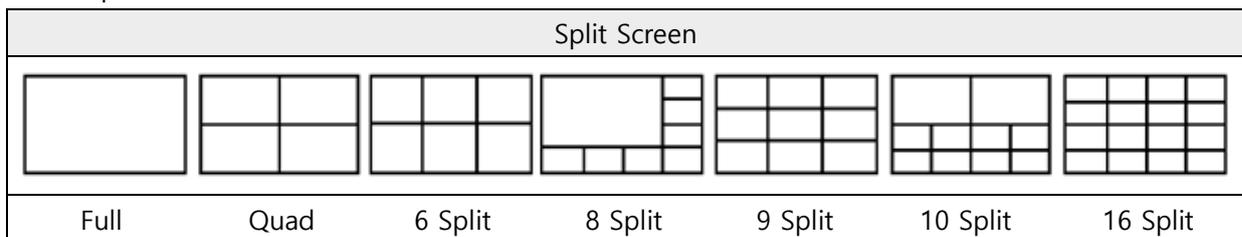
3-1. Front Interface



- ① **POWER:** To turn the power on/off.
- ② **CHANNEL DISPLAY:** To display a selected channel in Full screen.
- ③ **MENU:** To set up this item and/or check the current settings.
- ④ **AUTO SEQUENCE:** To enable auto sequence mode.

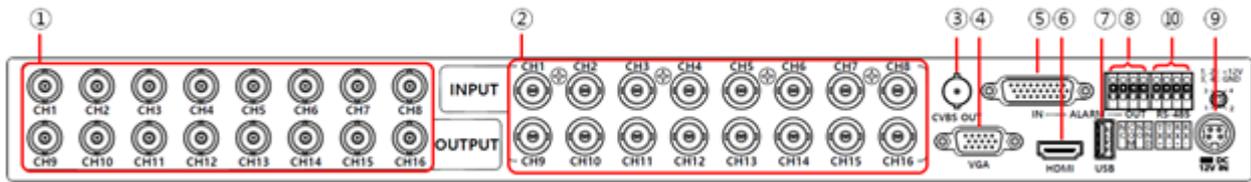
Once you press this button, the LED will be on and the set video will be displayed successively. Once you press other buttons in the auto sequence mode again, the auto sequence mode will be terminated and the function related to the pressed button will start.

- ⑤ **MULTI SCREEN:** To set video screen split mode. The locations of split channels can be changed in the Setup menu.



- ⑥ **ESC:** To terminate sub-menus in the menu.
- ⑦ **D-pad:** To move to the relevant sub-menu in the menu.
- ⑧ **ENTER:** To set or check sub-menu in the menu.
- ⑨ **MINUS:** To go to the previous channel or channels (available in split mode as well)
e.g.) When pressing this button in quad screen of 5CH, 6CH, 7CH and 8CH, the screen will be changed to the quad screen of 1CH, 2CH, 3CH and 4CH.
- ⑩ **PLUS:** To go to the next channel or channels (available in split mode as well)
e.g.) When pressing this button in quad screen of 5CH, 6CH, 7CH and 8CH, the screen will be changed to the quad screen of 9CH, 10CH, 11CH and 12CH.

3-2. Backside Interface



- ① **VIDEO OUTPUT:** Looped through output (AHD, TVI, CVBS).
- ② **VIDEO INPUT:** HD Analog (AHD, TVI) and CVBS video input (up to 16 channels).
- ③ **CVBS OUT:** CVBS video output.
- ④ **VGA:** VGA output.s
- ⑤ **ALARM IN:** Alarm input.
- ⑥ **HDMI:** HDMI output.
- ⑦ **USB:** To connect with a mouse.
- ⑧ **ALARM OUT:** Relay contact output.
 - To operate a light or an emergency bell by using electric signal when any alarm occurs.
 - N.O: Normal Open: The contact point is off. (Default setting)
 - N.C: Normal Close: The contact point is on.
- * Please refer to the '5-4. Alarm Input' and/or '5-5. Alarm Output' for more information of alarm.
- ⑨ **DC 12V IN:** Power input.
- ⑩ **RS-485:** RS-485 communication by an external device for a remote control. (e.g. PTZ camera)

4. Menu Setup

4-1.SYSTEM

4-1-1. Status

- ▶ Use a mouse for the menu settings.
- ▶ Enter the Setup menu to show the following screen.

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Camera	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷

- Device Name
- Device ID
- Date
- Firmware (Firmware version)
- Language (Language settings)
- Camera (Camera status)

4-1-2. Set up

- ▶ Enter [System] → [Set up] to show the following screen.

Date / Time	
Date / Time	2016/04/28 10:18:16

4-1-2-1. Set up

Device Name

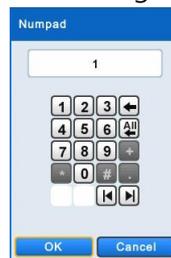
- Set up the device name.
- Click the keyboard icon() on the right side to display the following keyboard on the screen.



- Enter a device name by using the above keyboard popped up.
 - ①  : To delete letters/words from the right end of the entered device name.
 - ②  : To delete all letters/words of the entered device name.
 - ③  : To move the cursor.
- Click 'OK' to save the entered device name. Click 'Cancel' not to save the entered device name.

Device ID

- Click the numeric pad icon() on the right side to display the following numeric pad on the screen and use it for RS-485 related device ID settings.



- Enter any number from 1 to 255 to set up RS-485 device ID.
- Click 'OK' to save the entered device ID and click 'Cancel' not to save the entered values.

Date Format

- Set up the way of the displayed date.

Time Format

- Set up the way of the displayed time.

Language

- Set up the language.

Default

- Reset this device to the factory default settings.

4-1-2-2. Date / Time

- Click the date and time menu (**Date / Time**) to see the calendar as follows.



- Set up the date (year/ month/ day) by using following arrow keys.
 - : To change the year.
 - : To change the month.
 - The selected date will be shown in blue.
- Set the time by selecting the time section.
 - Any selected item(AM/PM, Hour, Minute, Second) will be marked in blue.
 - Change numbers by clicking ▲, ▼ buttons on the right side.
- Click 'OK' to save the setting values and click 'Cancel' not to save them.

4-1-2-3. Firmware

- Indicate this splitter's software version.

4-1-3. Event

- ▶ Enter [System] → [Event] to show the following screen.

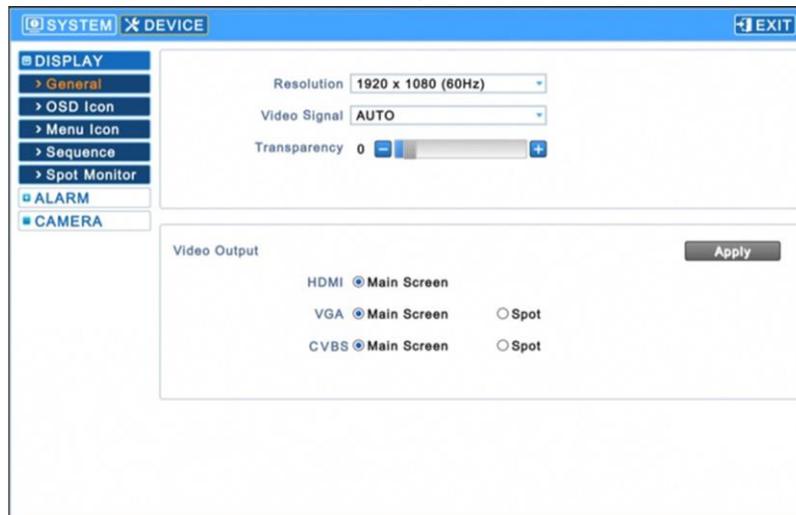
	Date / Time	Type	Description	User ID
8.	2016/04/28 10:15:53	SETUP	Setup Enter	admin
7.	2016/04/28 10:12:16	SETUP	Setup Exit	admin
6.	2016/04/28 10:12:10	SETUP	Setup Enter	admin
5.	2016/04/28 10:09:34	SYSTEM	System Start	system
4.	2016/04/28 10:05:17	SYSTEM	System Start	system
3.	2016/04/28 09:57:33	SYSTEM	System Start	system
2.	2016/04/28 09:56:17	SYSTEM	System Start	system
1.	2016/04/28 09:47:24	SYSTEM	System Start	system

- Event items are as follows:
 - System Start
 - System Reboot
 - Setup Default/Imported/Exported
 - Resolution Changed
 - Video out Changed
 - Time Adjust Before/After
 - Setup Enter/Exit
 - Video Loss Occurred

4-2. DEVICE

4-2-1. DISPLAY

- ▶ Enter [Device] → [Display] to show the following screen.



4-2-1-1. General

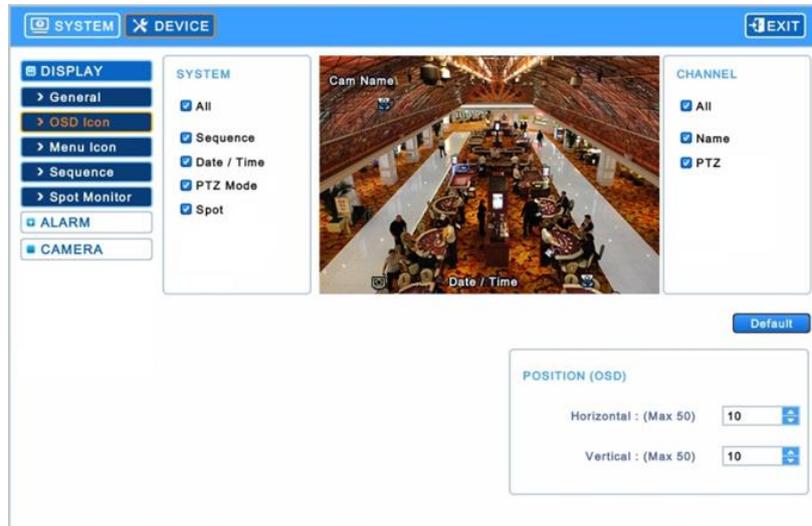
- Set video output resolutions.
- Set the CVBS video to NTSC, PAL or AUTO.
- The default setting is 'AUTO'.
- Reboot this splitter after changing the settings to recognize the video signal again.
- Transparency setting values are adjustable by +, - buttons on OSD menu.

Video Output

- Select video output (Main Screen, Spot)
- Click 'Apply' on the right side to complete the setup.
- Reboot this splitter after changing the settings to recognize the video signal again.
- * Some LEDs on the front interface may not be turned on when rebooting, and after completing its reboot, the LED will be working properly.

4-2-1-2. OSD Icon

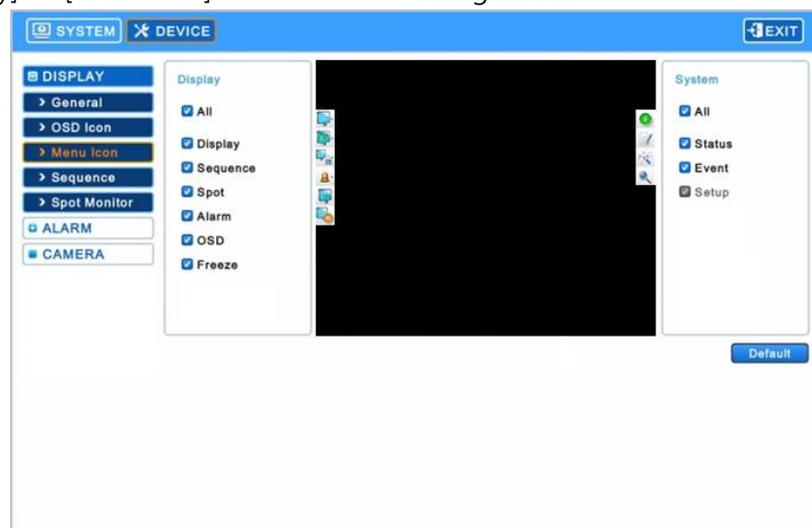
- ▶ Enter [Display] → [OSD Icon] to show the following screen.



- Select which items will be shown on the screen (OSD).
- Reset it to the factory default settings by clicking 'Default' on the right side.
- Adjust the position of OSD icons by the OSD position options at the bottom.
 - Horizontal: Set the horizontal interval of OSD icons (Range: 0~50). Bigger number means more interval.
 - Vertical: Set the vertical interval of OSD icons (Range: 0~50). Bigger number means more interval.
 - Adjust the range by using ▲, ▼ buttons.

4-2-1-3. Menu Icon

- ▶ Enter [Display] → [Menu Icon] to show the following screen.



- Select which items will be shown on the screen (Icons that will be shown on the left/right sides)
- Click 'All' to select or not to select all sub-items.
- Reset it to the factory default settings by clicking 'Default' on the right side.

4-2-1-4. Sequence

- ▶ Enter [Display] → [Sequence] to show the following screen.



- Select the channels to be in Auto Sequence mode and set the display switching time.
 - X1 Seq: Set the display switching time in Full screen.
 - X4 Seq: Set the display switching time in Quad screen.
 - X6 Seq: Set the display switching time in 6-split screen.
 - X8 Seq: Set the display switching time in 8-split screen.
 - X9 Seq: Set the display switching time in 9-split screen.
 - X10 Seq: Set the display switching time in 10-split screen.
- Select() the cameras to be added into Auto Sequence mode. Non-selected cameras will not be in the Auto Sequence mode.
- Set up the display switching time among 3, 5, 10, 15, 30, 60 seconds in the list.
- Click 'All' to set up the display switching time for every camera at once.
- Click the sequence icon() on the OSD menu by a mouse or press the Auto Sequence button on the front interface after closing the setup menu and changing the split mode.
- Available to set each camera video to the position where a user prefers in X4, X6, X8, X9, X10 Seq modes.

4-2-1-5. Spot Monitor

- ▶ Enter [Display] → [Spot Monitor] to show the following screen.



- Select the channels to be in Auto Sequence mode of Spot monitor and set the display switching time
 - X1 Seq: Set the display switching time in Full screen.
 - X4 Seq: Set the display switching time in Quad screen.
 - X8 Seq: Set the display switching time in 8-split screen.
 - X9 Seq: Set the display switching time in 9-split screen.
 - X10 Seq: Set the display switching time in 10-split screen.
- Select() the cameras to be added in to the Spot monitor's Auto Sequence mode. Non-selected cameras will be eliminated from the sequence mode.
- Set up the display switching time among 3, 5, 10, 15, 30, 60 seconds in the camera list.
- Click 'All' to set up the display switching for every camera at once.
- Close the setup menu, move the mouse cursor to the left side and click the Spot Out split mode icon () or Spot Out Sequence icon () to start the mode in demand for SPOT.
- Available to set each camera video to the position where a user prefers in X4, X8, X9, X10 Seq modes.

4-2-2. ALARM

- ▶ Enter [Device] → [Alarm] to show the following screen.



4-2-2-1. Alarm-In

- Select alarm names and types in this menu.
- Click the keyboard icon in the 'Alarm-in' menu to show the keyboard and enter the name.
- Available to set specific channels for Alarm input. Select() the relevant channels in the 'Use' items shown right left to each alarm name. If you do not use any specific channel's 'Alarm In' function, please do not mark() there.
- Click 'All' to change every alarm type at once.
 - NO(Normally Open): The contact sensor is open (Factory default setting).
 - NC(Normally Closed): The contact sensor is closed.
- Available to set up the event when generating an alarm by the menus at the right bottom.
 - Beep: Buzzer out when an alarm is generated.
 - Message: An alarm message pops up and stay on the screen for around 30 seconds when an alarm is generated.
 - Popup: The relevant channel's video pops up and stay on the screen for 5, 10, 30 seconds or keep being shown on the screen in Full Screen mode, when an alarm is generated.

4-2-2-2. Alarm-Out

- ▶ Enter [Alarm] → [Alarm-Out] to show the following screen.



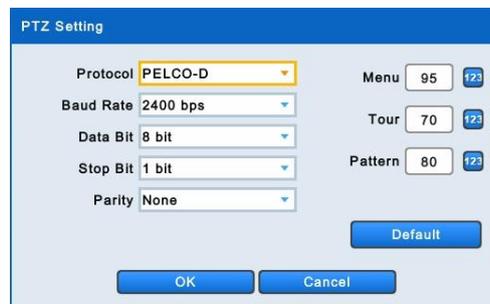
- Select alarm names and types in this menu.
- Click the keyboard icon in the 'Alarm-in' menu to show the keyboard and enter the name.
- Select types of alarm out in the 'Type' item.
 - NO(Normally Open): Relay signal output when the contact sensor is open (Factory default setting)
 - NC(Normally Closed): Relay signal output when the contact sensor is closed.
- Available to change the operating time or period of Alarm Out in the Duration item.

4-2-3. CAMERA

- ▶ Available to contact a PTZ camera when connecting your PTZ camera to the RS-485 Tx. terminal.
- ▶ Enter [Device] → [Camera] to show the following screen.



- Click the keyboard icon in each 'Name' menu to show the keyboard and enter each camera name.
- Click the number icon in each 'ID' menu to show the numeric pad and set up each camera's ID (0~9999).
- Select any checkbox in the 'Covert' menu to hide the selected part from the monitor screen. Click 'All' to select or hide all at once.
- Select any specific camera in 'PTZ' menu to change the PTZ setting of the selected camera and show the following on the screen.



- Set up Protocol / Baud Rate / Date Bit/ Stop Bit/ Parity.
- Set up a PTZ camera's menu in the Menu, Tour, Pattern menus.
 - > If the OSD entry value is 95 + PSET, please set the Menu to 95.
 - > If the Tour shortcut value is 71~79 + PSET, please set the Tour to 70.
 - > If the Pattern shortcut value is 81~89 + PSET, please set the Pattern to 80.
 - > Please refer to the PTZ camera's instructions for more details of its settings.
- Reset it to the factory default settings by clicking 'Default' button.
- Click 'OK' to save the setting values and click 'Cancel' not to save them.

5. Operation

5-1. Functions of the Mouse

Press the right button of the mouse to who the following menus.

Key Name	Functions
Color	Set up specific channel's brightness/ darkness/ chroma values
PTZ	Activate or deactivate PTZ control function
PIP	Picture in Picture function
Position	Change the position of camera video

5-2. Display Mode

- ▶ The available display mode for the main monitor is Full screen mode, Split screen mode, Channel Auto Sequence mode, PIP mode.
- Full screen: Press the relevant channel number key on the front interface to turn to the channel in Full screen. If you use a mouse, please double-click the relevant channel to turn the video to Full screen and double-click it again to go back to the previous split mode.
- Split screen: Press the 'MULTI SCREEN' on the front interface or click '  ' icon to turn to split screen.
- Auto sequence: Press the 'AUTO SEQUENCE' key on the front interface or click '  ' icon to set up Auto Sequence mode.

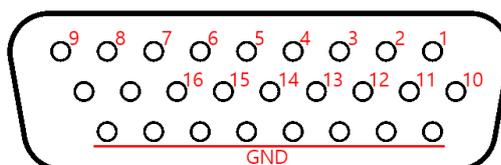
5-3. Digital Zoom

- Select the channel to display in Full screen mode.
- Press the left button of the mouse and drag out the part to zoom in.
- Click the left button of the mouse twice to release the zoom in.
- The digital zoom-in function is available in Full screen mode only, so please do not use this function in split screen, auto sequence mode and PIP mode.

5-4. Alarm-In functions

5-4-1. Alarm-In Port

- ▶ The Alarm-In input port consist of D-SUB 26Pin(Female) connector and the channels of this pin are as follows.



- ※ The relevant video channel screen will be shown when the alarm input.
- ※ 'Alarm-In' OFF ="0", 'Alarm-In' ON ="1" (GND and input signal are shorted out)
- ※ 'Alarm-In' is deactivated for loss channels.

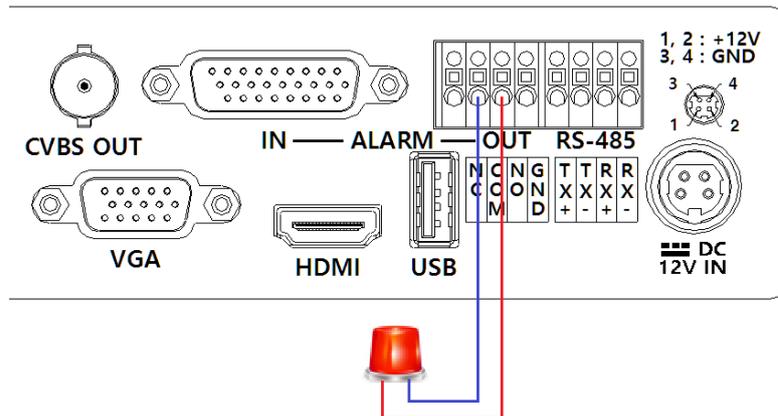
5-4-2. Alarm-In Operation

- ▶ Connect the relevant channel's alarm signal line(contact signal, which does not have electric signal) and GND line.

5-5. Alarm-Out function

5-5-1. Alarm-Out port

- Connect the signal port to COM port and NC or NO..

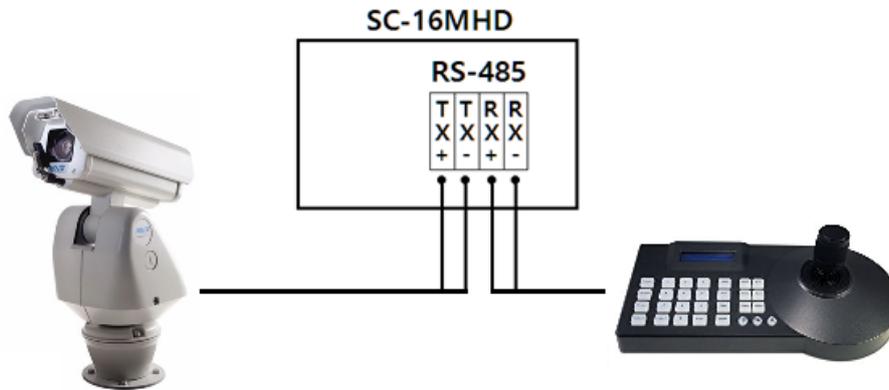


Example for Alarm-Out

5-6. RS-485

5-6-1. Connection Method

- ▶ Refer to the '4-2-3. CAMERA' for more information on camera settings.



5-6-2. Control communication data format

- ▶ Set up the split screen or others by a RS-485 controller in remote distance.

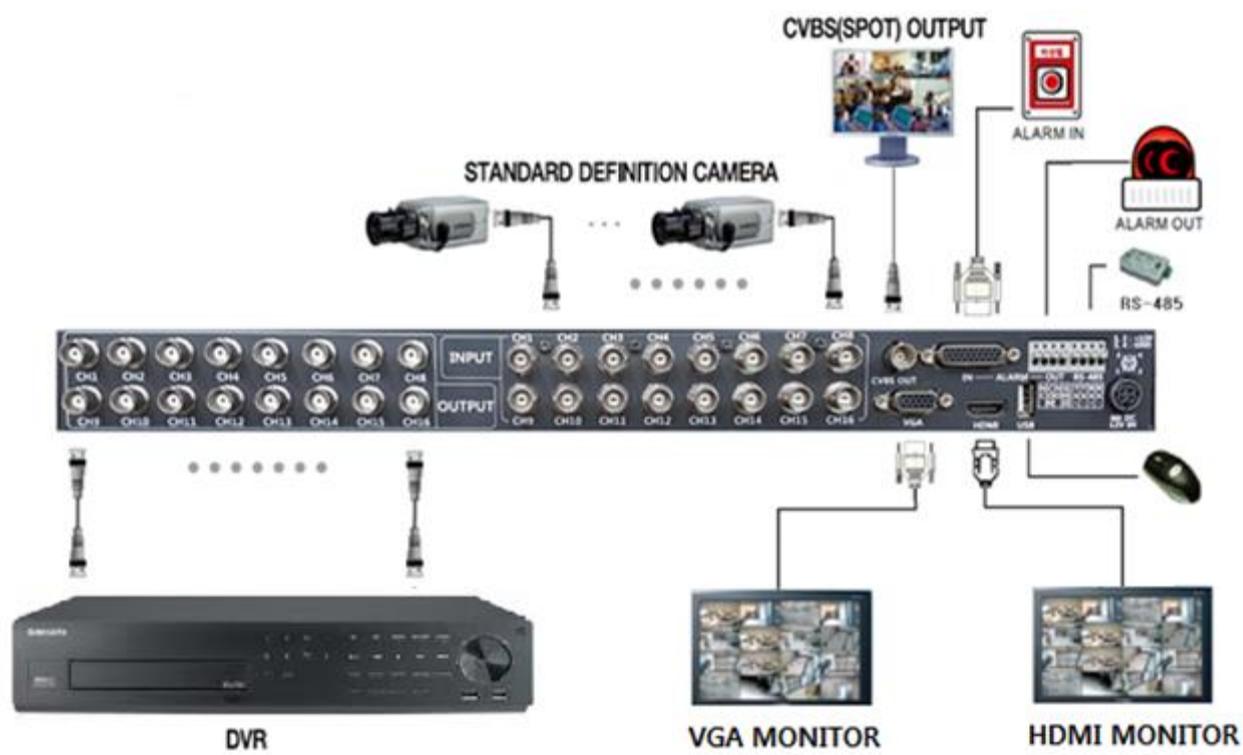
- Data Length: 8 Bit, Start/Stop Bit: 1Bit, Parity Bit: None, Baud Rate: 9600

Byte	Value	Function
1	0xA0	STX (Launching data)
2	0x16	Device Code
3	0x01 ~ 0xFF	Address (Device ID)
4	Data Byte	Control Data
5	Check Sum	Check Sum = Byte2 + Byte3 + Byte4

5-6-3. RS-485 Control Data Code

Hex	Function	Packet
30	1CH Full Display	0XA0 0X16 0X01 0X30 0X47
31	2CH Full Display	0XA0 0X16 0X01 0X31 0X48
32	3CH Full Display	0XA0 0X16 0X01 0X32 0X49
33	4CH Full Display	0XA0 0X16 0X01 0X33 0X4A
34	5CH Full Display	0XA0 0X16 0X01 0X34 0X4B
35	6CH Full Display	0XA0 0X16 0X01 0X35 0X4C
36	7CH Full Display	0XA0 0X16 0X01 0X36 0X4D
37	8CH Full Display	0XA0 0X16 0X01 0X37 0X4E
38	9CH Full Display	0XA0 0X16 0X01 0X38 0X4F
39	10CH Full Display	0XA0 0X16 0X01 0X39 0X50
41	11CH Full Display	0XA0 0X16 0X01 0X41 0X58
42	12CH Full Display	0XA0 0X16 0X01 0X42 0X59
43	13CH Full Display	0XA0 0X16 0X01 0X43 0X5A
44	14CH Full Display	0XA0 0X16 0X01 0X44 0X5B
45	15CH Full Display	0XA0 0X16 0X01 0X45 0X5C
46	16CH Full Display	0XA0 0X16 0X01 0X46 0X5D
47	Multi screen	0XA0 0X16 0X01 0X47 0X5E
48	Menu	0XA0 0X16 0X01 0X48 0X5F
49	Enter	0XA0 0X16 0X01 0X49 0X60
4A	ESC	0XA0 0X16 0X01 0X4A 0X61
50	4-Split Display	0XA0 0X16 0X01 0X50 0X67
56	6-Split Display	0XA0 0X16 0X01 0X56 0X6D
51	8-Split Display	0XA0 0X16 0X01 0X51 0X68
52	9-Split Display	0XA0 0X16 0X01 0X52 0X69
53	10-Split Display	0XA0 0X16 0X01 0X53 0X6A
55	16-Split Display	0XA0 0X16 0X01 0X55 0X6C
5A	Auto Sequence	0XA0 0X16 0X01 0X5A 0X71
64	Down	0XA0 0X16 0X01 0X64 0X7A
6C	Left	0XA0 0X16 0X01 0X6C 0X83
72	Right	0XA0 0X16 0X01 0X72 0X89
75	Up	0XA0 0X16 0X01 0X75 0X8C
6D	-(Minus)	0XA0 0X16 0X01 0X6D 0X84
70	+(Plus)	0XA0 0X16 0X01 0X70 0X87

6. Connection Diagram



7. Trouble Shooting

Symptom	Checking Method
No power input	<ul style="list-style-type: none"> • Please check the adapter's input status. • Please check whether to connect a DC 12V adapter or not. • Please check if the power switch is on.
No video display through loop output port	<ul style="list-style-type: none"> • Please check if the input video belongs to the supported input video resolutions of SC-16MHD. • Please check the connection status of the BNC connectors. • Please check if the camera and DVR are compatible. • The connected cable length should not exceed the recommended transmission distance.
No video display of CVBS signal	<ul style="list-style-type: none"> • Please check if the input video belongs to the supported input video resolutions of SC-16MHD. • Please check if the input video format and video format setting of SC-16MHD are same. • Please check the connection status of the BNC connectors. • Please check if the monitor input is set as CVBS. • The connected cable length should not exceed the recommended transmission distance.
No video display of HDMI signal	<ul style="list-style-type: none"> • Please check if the input video belongs to the supported input video resolutions of SC-16MHD. • Please check if the input video format and video format setting of SC-16MHD are same. • Please check the connection status of the BNC connectors of input video. • Please check if the monitor input is set as HDMI. • Please check if the HDMI output resolution matches the monitor's input resolution. • The connected cable length should not exceed the recommended transmission distance.
No video display of VGA signal	<ul style="list-style-type: none"> • Please check if the monitor's VGA input belongs to the supported resolution of SC-16MHD. • Please check the BNC connectors' connection. • Please check if the monitor's input setting is VGA. • Please check the monitor's supported signal resolutions. • Please check the connected cable length.
No camera video output when changing video resolution	<ul style="list-style-type: none"> • Please check the camera output resolution. • Please reboot SC-16MHD after changing any video resolution or type.

8. Specifications

Model		SC-16MHD
Video Input		AHD, TVI, CVBS
Input Resolution	HD-Analog	1920x1080p 25/30Hz, 1280x720p 25/30Hz
	CVBS	NTSC, PAL
Output Resolution	Loop through	Same as the input signal format
	CVBS	704x480(NTSC), 704x576(PAL)
	HDMI	1920x1080p 50/60Hz, 1280x720p 50/60Hz, 1024x768
	VGA	1920x1080p 50/60Hz, 1280x720p 50/60Hz, 1024x768
Recommended Distance of Input / Output	HD-Analog In	Max. 500m / 5C-2V (Sum of Input and Loop out distance)
	CVBS In	
	CVBS Out	1Vp-p (75 Ohm Termination)
	HDMI Out	HDMI Cable 3m
	VGA Out	VGA Cable 3m
Connection Port	VIDEO In	BNC-F, 75Ω
	Loop through Out	BNC-F, 75Ω
	CVBS Out	BNC-F, 75Ω
	HDMI Out	A Type
	VGA Out	D-SUB 15Pin
	USB	Mouse connection
External Input / Output	Alarm	Input: 16EA (D-SUB 26 Pin), Output: 1EA (Relay)
	RS-485	4P
LED Indicator		Full or split screen, Auto Sequence mode
Input Power / Power Consumption		Max. DC 12V / 1.3A
Temperature / Humidity		+0°C ~ +40°C / 0 ~ 80%
Case Body / Weight		Steel / 3.6Kg
Dimensions (mm)		430(W) x 44(H) x 350(D) mm

※ The distance depends on the construction environment such as camera, DVR specifications, etc.

9. Warranty Certificate

This product has passed thorough quality control and test, and if this gets broken during normal use, we provide the two-year warranty service.

Model No.		
Serial No.		
Distributor		
Date you purchased		
Place you purchased		
Warranty Period		Two (2) year from the date of purchase
Purchaser	Name	
	Address	

- Please check this warranty indication first.
 - Please contact your distributor after checking out any defect in the products.
 - The standard for repairing, replacement or reimbursement follows Customer.
 - Warranty content any defect under normal use within the warranty service period we give you free repair service according to the warranty certificate.
 - We charge you with the fee of parts and service despite of free warranty service period.
- Any breakage made without care such as:
- Breakage or trouble made by natural disaster.
 - Breakage or trouble made by breaking the product guide or manual.
 - Breakage or trouble made by wrong power voltage or frequency.
 - When you want to reassemble for full system or replace parts within warranty service period.
 - When unauthorized person modified or made damage on the product trying to repair it.
 - Thunderstroke.
- Please note that we don't support the breakage after warranty service period is expired. If the customer wants to get it repaired, we charge them with the fee.
 - The specification is subject to change without prior notice for quality improvement.

[MEMO]

[MEMO]

[MEMO]

SeeEyes[®]

 **SeeEyes Co.,Ltd**

#503~509 Sunil Technopia, 555 Dunchon-daero, Jungwon-gu, Seongnam City,
Gyeonggi Province, Korea (Zip Code: 13215)

TEL: +82-(0)31-730-5831, 5834

FAX: +82-(0)31-777-3512

E-MAIL : overseas@sscctv.com

<http://www.sscctv.com/eng>
