# AVerMedia<sup>®</sup> AverDiGi EH5116 PRO

# **Quick Installation Guide**



# SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE THE INFORMATION CONTAINED HEREIN IS TO BE

CONSIDERED FOR REFERENCE ONLY



Ĭ

#### WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION

Copyright © 2008

AVerMedia INFORMATION, Inc

All rights reserved Reproduction without permission is prohibited

**Package Contents** 



If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer

- (1) EH5116 PRO unit
- (2) Remote Control (Batteries are included)
- (3) Quick Installation Guide
- (4) Power Cord (\*The power cord may vary according to the local electricity system.)
- (5) Audio cable (16CH audio out, 1CH audio in, 1CH microphone in)
- (6) Software CD (Manual is included)
- (7) 12 \* screws for internal HDD
  - installation
- (8) SATA cable

## Hardware Installation

## A. Install the hard disk

Follow the steps to install the hard disk:



For hard disk spec, please referring to <u>http://www.avermedia.com/AVerDiGi/Product/</u>  $\rightarrow$  Embedded Hybrid DVR/NVR  $\rightarrow$  AVerDiGi EH5116  $\rightarrow$  Hardware Recommendations

Follow the illustrated instructions below to install the hard disk:

1. Unlock the removable hard disk 2. Open the drawer drawer



3. And then, pull out the removable 4. hard disk drawer





Remove the removable hard disk drawer cover





Carefully insert the hard disk in 5. the removable rack



6. Turn the removable hard disk drawer over and screw hard disk with screws



7. And then, close the removable hard disk drawer cover



Slide the drawer back

8.



Lock the removable hard disk 9. drawer keylock



10. Power on the removable hard disk drawer



11. You may now connect all the cables and power on the DVR unit.



Please make sure the power of removable hard disk is on before starting DVR unit to avoid hard disk detection error.



# B. After the hard disk installation, please connect the cables and power as the illustration showed

- DVR unit can connect 16 cameras in analog and IP cameras combo.
- DVR unit doesn't supply the power to connected external device.
- Each time you change the video display output, the power must be turned off and switch the video display output, and then turn on the DVR unit.
  - Pen drive and external hard disk must be FAT32 format.

# **Using DVR System**

#### A . Way to Operate DVR

There are three ways can be managed the DVR unit:

#### 1. Using mouse and keyboard

Connecting the mouse and keyboard through USB interface, user can easily to management the DVR unit. For the first time using DVR unit, mouse and keyboard is the best way to set up all DVR relevant configurations.

#### 2. Using Remote Controller

After DVR unit has been setup, user can use remote control to preview, playback, backup, reset alarm, output video and so on functions.

#### 3. Using Front Panel button

It's an optional way to operate DVR unit. Front panel button function acts as same as remote controller.



For the first time using DVR unit, using mouse and keyboard to setup all configurations.

## B . First Time Using DVR Unit

- 1. Connect the mouse and keyboard to DVR unit(through USB interface)
- 2. Select the video output VGA, TV-NTSC, or TV-PAL



VGA: DVR output the video to a LCD monitor or a CRT monitor TV-NTSC: DVR output the video to a TV and video system is NTSC TV-PAL: DVR output the video to a TV and video system is PAL

- 3. Power on the DVR unit.
- 4. For security purpose, the DVR system would require you to enter User ID and Password before it can be accessed. When the Authorization dialog box appears, select the ID (superuser or user) and enter the Password. (Superuser and user default password both are 111111).



Superuser has full authority to configure and operate DVR system.

After login, the main GUI as following shown:



- 5. The hard disk must be formatted before user can use it with DVR unit. Following the below steps to format the hard disk.
  - a. Click Setup and enter the password
  - b. Click System  $\rightarrow$  Add
  - c. Select the hard disk from device list and select Format type
  - d. Click Format button to start formatting
  - e. When formatting is done, click **OK**.
- 6. Setup the date and time in order to have correct recording time and date. Following the below steps to setup date and time:
  - a. Click Setup and enter the password
  - b. Click System
  - c. In **Time** section, click **Setting** button of **System Time**.
  - d. Select the date and adjust the time, and then, click **OK**.
- 7. Connecting the camera.
  - To connect analog camera:
    - a. Plug the analog camera audio cable into DVR unit.
    - b. Click **Setup** and enter the password
    - c. Click Camera
    - d. Select camera channel and type of camera Analog Camera
    - e. And then, enable the camera
    - f. Give a name of camera and enter shot description.
    - g. Adjust the bright, contrast, hue, and saturation of camera
    - h. Click OK

#### To connect IP camera:

- a. Click Setup and enter the password
- b. Click Camera
- c. Select camera channel and type of camera IP Camera
- d. And then, enable the camera
- e. Click IP Setting
- f. Enable **Protocol**, and then, select **protocol**, **mode**, **video format**, **resolution**, and **channel** of IP camera.
- g. Enter IP address or URL of IP camera.
- h. Enter **ID** and **password** if IP camera's access authority is required.
- i. Click **OK**.



- DVR unit doesn't supply the power to connected external device.

## Familiarizing the Buttons in Preview Mode



Name	Function
(1) Exit	Reboot: To restart the DVR system. It is required to enter the password
	Power Off: To shout down the DVR system. It is required to enter the
	password
	Login: Using different ID to login to DVR system.
	Cancel: To return to DVR application.
(2) Split Screen	Select from 6 different split screen types to view all the camera, or one
Mode	camera over the other or alongside on a single screen. It also allows
	you to switch and view different camera number.
(3) Record	Start/stop video recording.
(4) EMap	Display the map in each area, and the location of camera/ sensor/ relay
	and the warning.
(5) Network	Enable/disable remote system access. This feature allows you to
	access DVR server from a remote location via internet connection. The
	default is enabling.
(6) Setup	Configure the system settings.
(7) PTZ	Access PTZ control panel.
(8) Preview	Switch to Preview mode. This allows you to view live camera display.
(9) Playback	Switch to Playback mode. This allows you to view the recorded video
	file.

Name	Function
(10) Status bar	Display the current date, time, hard disk free space, and system
	temperature.
(11) Camera ID	Show the number of cameras that are being viewed. When you are in
	single screen mode, click the camera ID number to switch and view
	other camera.
(12) Snapshot	Capture and save the screen shot in *.jpg format.
(13) Event log	Show the record of activities that take place in the system.
(14) AutoScan	Start/Stop video screen cycle switch.
(15) Full screen	View in full screen. To return, press the right button of the mouse or
	ESC on the keyboard or click the arrow icon.



When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all.

(16) Alarm Alert and display warning info. Superuser and user both can reset alarm status.

# Familiarizing the Buttons in Playback Mode

To switch in Playback mode, click **Playback** button at the lower right corner of Preview mode user interface.



Name	Function
(1) Split Screen	Select from 6 different split screen type to playback the recorded video
Mode	file of all the camera, or one camera over the other or alongside on a
	single screen.
(2) Progress bar	Show the progress of the file being played. You may move the bar to
	seek at any location of the track.
(3) Hour Buttons	Select and click to playback the recorded video file on the specific time
	frame.
The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour	

Ľ

The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. While the red bar indicates that you are currently viewing the recorded video file.

(4) Playback	Begin: Move at the beginning of the recorded video file.
Control Buttons	Previous: Go back to the previous frame.
	Slower: Play the recorded video file at the speed of 1/2X, or 1/4X
	Rewind: Wind back the recorded video file.
	Pause: Briefly stop playing the recorded video file.
	Play: Play the recorded video file.
	Faster: Play the recorded video file at the speed of 2x, 4x, 8x, 16x, 32x,
	or 64x.

Name	Function
(4) Playback	<b>Next:</b> Go to the next frame.
Control Buttons	End: Go to the end of the recorded video file.
(5) Date	Select the date on the calendar and the time from 00 to 23 to where to
	start playing the recorded video file.
The numbe	rs from 00 to 23 represent the time in 24-hour clock. The numbers from 01
to 16 repres	sent the camera ID. The blue colored column indicates that there is a
recorded vie	deo file on that period of time. While the red colored column indicates on
where to sta	art playing the recorded video file.
(6) Preview	Switch to Preview mode.
(7) Playback	Switch to Playback mode to view the recorded video file.
(8) Status bar	Display the recorded date, time and play speed.
(9) Camera ID	Show the number of cameras that are being viewed. When you are in
	single screen mode, click the camera ID number to switch and view
	other camera.
(10) Export	<ul> <li>Export includes Snapshot, Output Video Clip, and Backup function.</li> <li>Snapshot: Capture and save the screen shot either in *.jpg format.</li> <li>Output Video Clip: Save the segmented file in *.dvr format to external USB storage device.</li> <li>Backup: Save the playback file to USB device or DVD-ROM disk</li> </ul>
(11) Segment	Keep a portion of the recorded video.
(, cogo	<ol> <li>Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click Segment to set the begin mark.</li> </ol>
	00 01 02 03 04 05 00 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
	<ol> <li>Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click <b>Segment</b> to set the end mark. To cancel segmentation or set the segment marks from the start, click <b>Segment</b> button again.</li> </ol>
	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
	<ol> <li>Click Export button → Output Video Clip to save the video segment to the USB storage device.</li> </ol>

#### Function

(12) Full screen

View in full screen. To return, press the right button of the mouse or **ESC** on the keyboard or click the arrow icon.



	When you switch to full screen in multiple-screen mode, Left click to
	toggle to only display one of the video in the multiple-screen mode or all.
(13) Event log	Show the record of activities that take place in the system. To filter the
	records, select and click the option button to only display Event, System,
	Operation, Network or All.
(14) Bookmark	Mark a reference point when reviewing the recorded video file to which
	you may return for later reference.
	1. Click <b>Bookmark</b> . button
	<ol><li>In the Bookmark dialog box, you may do the following:</li></ol>
	- Add to create the new reference mark in the bookmark list.
	<ul> <li>Edit to change the mark description.</li> </ul>
	<ul> <li>Delete to remove the selected reference mark in the list.</li> </ul>
	<ul> <li>Delete All to remove all the reference marks in the list.</li> </ul>
	<ul> <li>Exit to close Bookmark dialog box.</li> </ul>
	3. Select and click one in the bookmark list to review the file.
(15) Find Next	Search for the next event or changes in the motion detector frame. You
	can use this when you are using Event Search function.
(16) Event Search	Search from the recorded activities that were recorded in event log (i.e.,
	Sensor, Motion, Video Loss).