HD IP VIDEO DECODER

INSTRUCTION MANUAL



Introduction

This model is a standalone 4-channel HD IP decoder that can display live video and remotely playback video from multiple NVR's and DVR's. This model can decode live video or recorded video clips of DVR's/NVR's via the TCP/IP network to form part of a video wall.

The virtual matrix feature stores the IP addresses of the cameras and video decoders in a database, making access and identification quick and easy. IP addresses can be automatically imported via the IP scan utility. HD IP Video Decoder has an IP scan facility, (WS Discovery) which locates all the cameras on the network and imports a preview thumbnail of each channel. This automated installation wizard speeds up commissioning.

HD IP Video Decoder can be controlled via multiple methods including; IR remote control, keyboard with PTZ joystick, touch screen monitor, or USB mouse. When connected to a touch screen monitor, Smartphone style features like 'pinch and zoom' can be used to navigate the system.

HD IP Video Decoder provides various export methods including USB flash disk and HTTP download playable via Backup Manager. Extensive support for iPhone, iPad, BlackBerry and Android allows for remote viewing of the connected cameras at high frame rates. Browser based remote live monitoring and video playback features are also supported.

Features

- Standalone HD IP Video Decoder
- No PC required
- Touch screen supported
- Full HD 1920*1080P HD output
- Remote playback for 16-channel/9-channel/4-channel DVR/NVR
- Remote control and keyboard supported
- HTTP browser based viewing including HD IP Video Decoder configuration, PTZ control, playback, and live monitoring
- IP scan utility
- Extensive support for iPhone, iPad, BlackBerry and Android devices
- CMX 3.6 software supported

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Caution

- Do not drop or strike the equipment
- Do not install the equipment near naked flames or heat sources
- Do not expose this unit to rain, moisture, smoke or dusty environments
- Do not cover the opening of the cabinet with cloth or plastic or install this unit in a ventilated place. Allow 10cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as detection of smoke, strange smell or no display on screen whilst power is turned on
- Do not touch the power connection with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker systems, etc.
- All connection cables must be grounded properly

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS



Contents page

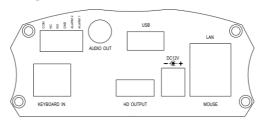
User Guide	5
Chapter 1: Basic Operation	5
1.1 HD IP Video Decoder rear panel	5
1.2 Remote control	6
1.3 Keyboard	7
1.5 Mouse operations	8
1.6 Menu symbols	9
Chapter 2: Camera selection	10
Chapter 3: Digital zoom	10
Chapter 4: Freeze	11
Chapter 5: PTZ	12
Chapter 6: Audio	13
Chapter 7: Playback	13
7.1 Accessing playback	13
7.2 Select time and date for playback	14
7.3 Playback controls	15
Chapter 8: Alarm Management	16
Chapter 9: Backup / Export	17
Chapter 10: Event	18
Chapter 11: Basic web-based browser viewing	19
Chapter 12: Backup Manager	19
12.1 Playback exported files	20
12.2 FTP Download	20
12.3 Convert already downloaded files	21
Quick Installation Guide	22
Chapter 1: Rear Panel	22
1.1 HD IP Video Decoder rear view	22
Chapter 2: Time and Date Settings	22
Chapter 3: Network Settings	23
Chapter 4: Adding Cameras	24
Menu configuration	25
Chapter 1: Setup Menu	25
1.1 Camera setup	25
HD IP Video Decoder Manual	3

1.2 Monitor setup	28
1.3 Streaming setup	29
1.4 Alarm setup	30
1.6 System setup	35
1.7 PTZ setup	38
1.8 Virtual matrix	40
1.9 DVR/NVR playback by time search	44
Chapter 2: Web-based Viewing/Setup	45
2.1 Before using Internet browser	45
2.2 Logon	46
2.3 Configuring the HD IP Video Decoder via web page	47
Chapter 3: Keyboard Operations	51
3-1 Keyboard connections of DVR/NVR	51
3-2 Live video of DVR/NVR via HD IP Video Decoder	51
3-3 DVR/NVR Playback	52
3-4 Live video of IP camera feature via HD IP Video Decoder	53
3-5 Control PTZ	53
Appendix A Keyboard connection	54
Appendix B	55
1. RS-485 Input and Output Pin Assignment	55
2. Alarm I/Os	55
Appendix C Supported USB Flash Disk	56
Appendix D Touch Screen Monitor Support List	56
Appendix E	56
Specification	50

User Guide

Chapter 1: Basic Operation

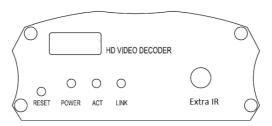
1.1 HD IP Video Decoder rear panel



Note: Do not connect any devices to 'Keyboard In' other than the keyboard as the connection contains 12VDC and may damage other devices.

HD IP Video Decoder LED Panel

The status of each LED is described in the table below:



LED	Description	Colour	
RESET	Manufacturing default button		
POWER	Constant on	Green	
ACT Network ACT LED		Green (flashing)	
LINK Network LINK LED		Orange	

Extra IR

To use IR remote control, first connect the IR receiver to the HD IP Video Decoder

RESET

Hardware Factory Default

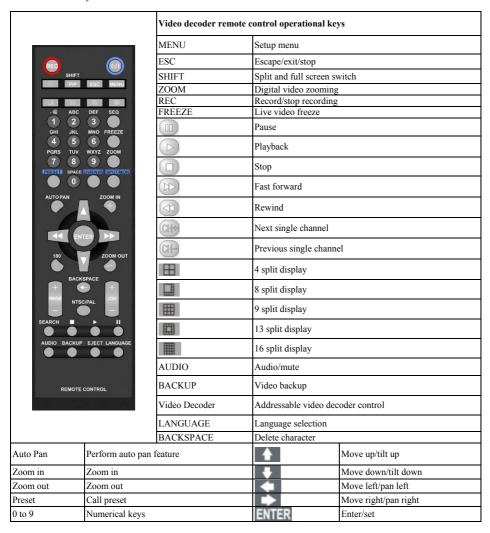
Use hardware to restore factory default settings, follow these steps:

- 1. Hold Load Default Button for 10 seconds, then release.
- 2. Green and Yellow Network LED blinks, On->Off->ON.
- 3. HD IP Video Decoder has completed the factory default settings, and then reboot.

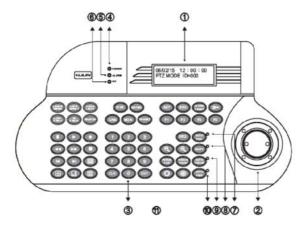
Note: Hardware Factory reset does affect IP address, video system, and language settings.

1.2 Remote control

The remote control is a small wireless handheld device with an array of buttons for adjusting settings. The buttons are separated in regions based on their features including operational keys, Pan, Tilt, and Zoom (PTZ) and numerical keys.

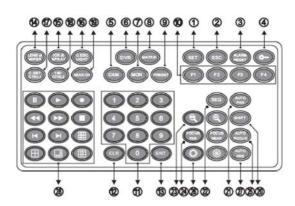


1.3 Keyboard



Keyboard controls

- 1. **LCD display** display the keyboard system setup menu and operation information
- 2. **Joystick** 3 axis (Pan/Tilt/Zoom) / 2 axis (Pan/Tilt)
- 3. **Keypad panel** there are 54 keys which can control PTZ, matrix, DVR and telemetry receivers
- 4. Power indicator
- 5. Alarm indicator
- 6. **R/T indicator** data communication indication
- 7. Auto pan indicator
- 8. **Shift indicator** shift key status indication
- 9. Auto focus indicator
- 10. Auto iris indicator
- 11. RJ-45 connector



- 1. **Set** enter setup menu mode
- 2. ESC exit
- Alarm reset reset alarms and video loss alarms
- 4. **Keyboard lock** press for 2 seconds to enter locking mode, press again to unlock the keyboard
- 5. **Cam** select a particular camera
- 6. **DVR** select a DVR
- 7. **Mon** select a monitor
- Matrix press shift + matrix to switch to matrix control mode
- 9. **Present** recall and store preset options
- 10. Function keys
- 11. **Numerical keys** 0-9 for entering monitor, DVR, camera number
- 12. **CLR** clear to setting data

- 13. **ENT** enter or confirm data programming
- 14. Wiper/lens
- 15. Spray
- 16. Light/C.ESC
- 17. CTRL 1 / C.SET
- 18. CTRL 2 / 180
- 19. Search
- 20. Shift
- 21. Auto pan
- 22. **SEQ**
- 23. Zoom in / zoom out
- 24. Focus far / focus near
- 25. Auto focus
- 26. Iris open / iris close
- 27. Auto iris
- 28. DVR control keys

1.4 Touch screen



Pinch Zoom Out	Swipe
93	En J

Pinch and zoom:

Pinch the area on the touch screen where you want to zoom. To zoom in move your fingers outwards, and to zoom out move your fingers inwards

Scroll screen: Swipe the screen left and right to navigate through the menus

Single tap: Tap icons to select

Double tap: Double tap in camera view to return to previous menu

1.5 Mouse operations

The HD IP Video Decoder has a USB mouse interface General mouse operations can be used to navigate the device



Note: The HD IP Video Decoder Touch can be controlled via multiple methods; a) keyboard, b) IR remote control, c) touch screen monitor or d) USB mouse. For the purpose of this manual, USB mouse and touch screen will be referred to as one operation where applicable, "Touch screen monitor/mouse" hereinafter. For specific operations, "Touch screen" or "Mouse" will be referred to separately.

1.6 Menu symbols

Home short cut keys:



Menu



Pause



Alarm



Matrix mode

Additional menu keys:



- Return to previous screen



Return to live mode

Main menu keys:



PTZ



Screen view



Shut down



Alarm manager



Live display



Configuration menu



Event

Chapter 2: Camera selection

a. Via remote control

To select multiple screen views press

To select a single full screen view, enter the numerical value of the camera, e.g. for camera 3, press '03'.

b. Via keyboard

To select multiple screen views, press



To select a single full screen view, enter the numerical value followed by the cam button,



c. Via touch screen monitor / mouse



To revert back to multi screen view, click anywhere on the image screen

Note: When the camera title is yellow, you have control over that camera.

Chapter 3: Digital zoom

The HD IP Video Decoder provides 64x digital zoom for live monitoring and video playback modes. To digitally zoom, follow the steps below:

a. Via remote control

Select desired channel

To zoom in and out, press 'zoom' button to activate

Use directional keys to move around the screen

To return to live view, press depending on required view

b. Via keyboard

Select desired channel

To zoom in and out, press Enter button to activate

Use joystick (left, right, up and down) to pan and tilt around the image

Twist the joystick to zoom around the image

To return to live view, press depending on required view

c. Via touch screen monitor

Select desired channel

To zoom in and out, use pinch and zoom technique

Swipe touch screen monitor to move around the screen

To return to live view, tap once anywhere on the image

d. Via mouse

Select desired channel

To zoom in and out use mouse wheel

To move around the screen press right or left mouse button, drag and release

To return to live view click once anywhere on the image

Chapter 4: Freeze

The HD IP Video Decoder can freeze screen images in live and playback modes. Whilst frozen the HD IP Video Decoder is still recording.

a. Via remote control

Press 'pause' on the remote control

Once paused, the pause icon at the top left hand side of the screen will be highlighted in blue

To return to live mode press 'pause' again

b. Via keyboard

Press the pause button on the keyboard

Once paused, the pause icon at the top left hand side of the screen will be highlighted in blue

To return to live mode press pause again

c. Via touch screen monitor / mouse

Press the pause icon at the top left hand side of the screen

Once paused, the pause icon will be highlighted in blue

To return to live mode, press pause icon again

Chapter 5: PTZ

If the camera is a Pan, Tilt and Zoom (PTZ) camera, you can control it via the following methods:

a. Via remote control

Select required channel

Use direction arrows to pan and tilt around the image



keys to zoom around the image

To send a dome to a preset position, press 'preset', followed by the number required. For example, for preset 3, press 'preset' followed by '003'.

Press 'auto' to start auto pan tour

To deactivate the tour, press 'auto' again

b. Via keyboard

Select required channel

Use joystick (left, right, up and down) to pan and tilt around the image

Twist the joystick to zoom around the image

To send dome to a preset position, press numerical key followed by 'preset' For example, '5' followed by 'preset'.

Press 'auto pan' to start auto pan tour

To deactivate the tour, press 'auto pan' again

c. Via touch screen monitor/ mouse

Select required channel



Select menu button, press PTZ icon

Use the below controls to navigate the PTZ. The red joystick can be dragged to navigate the image



Press 'ESC' to return to menu

Chapter 6: Audio

a. Via remote control

To enable audio, select the required channel

Press 'audio' on the remote control to enable live audio

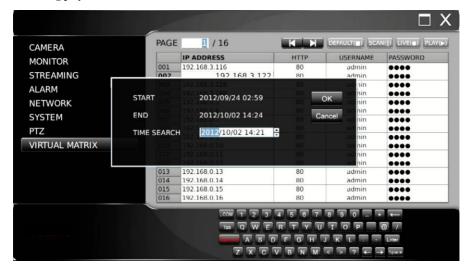
Press 'audio' on remote control again to disable live audio

For all other methods, mute volume to disable audio

Note: LILIN's DVR 3 & 5 series, NVR Touch series, and IP cameras 2MP and 3MP with audio models are supported. DVR/NVR playback is also supported.

Chapter 7: Playback

7.1 Accessing playback



a. Via remote control



b. Via keyboard

To access virtual matrix press stop



In the virtual matrix menu use the joystic to select the DVR/NVR from the table

To access playback press 'play'

c. Via touch screen monitor / mouse

To access virtual matrix press the virtual matrix icon



In the virtual matrix menu select the DVR/NVR from the table and press



7.2 Select time and date for playback



a. Via remote control

to navigate time frame (minute, hour, month, year)

to select date and time

To start playback, press 'enter'

b. Via keyboard

Use joystick directions up and down to navigate time frame (minute, hour, month, year)

To start playback press enter

c. Via touch screen monitor

Navigate time frame by pressing the desired period, select time using the up and down buttons

d. Via mouse

Navigate time frame via pressing desired period

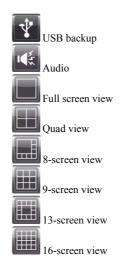
or

Use mouse to enter time and date in time search bar using the scroll wheel or up and down arrows on

To start playback, press OK icon

7.3 Playback controls





a. Via remote control

Use remote keypad to play, stop or pause

Use to rewind

Use to fast forward. Press once for 2x and subsequent press to increase speed

For step rewind/ forward, press pause then use your controller keys to move frame

To select individual cameras use



For grid screen view, follow camera selection process

To turn audio on or off, press the 'audio' key

To activate WYSIWYG (What You See Is What You Get) backup, press 'backup'

The USB icon will light to show backup has commenced

To stop recording, press 'backup' again

To exit playback, press stop or escape

b. Via keyboard

Use keyboard keys to play, stop, or pause

Use to rewind. Use to fast forward

Press once for 2x and subsequent press to increase speed

For step rewind/ step fast-forward press 'pause' then use your controller keys to move frame.

c. Via touch screen monitor / mouse

Use on screen keys to play, stop or pause

Use to rewind. Use to fast forward

Press once for 2x and subsequent press to increase speed

For step rewind/step fast-forward, use keys La to move frame

To exit playback press stop or escape

To activate WYSIWYG backup, insert USB and press 'backup'. The USB icon will light to show backup has commenced. To stop recording, press 'backup' again.

Note: For all methods, with WYSIWYG backup, all channels will be exported regardless of on screen camera selection. Once backup has been activated, playback will slow down. If fast-forward is selected, when playing back the file, the speed will be normal however the frame rate will be reduced.

Chapter 8: Alarm Management

Alarm events:

Motion - created by movement

Sensor - created by hardwired normally open / normally closed alarm input at the back of the unit

Note: See installation guide for information on how to set up alarms.

a. Via remote control

To select alarm indicator press 'menu' and use left and right direction keys until correct icon is reached

Press 'enter' to select

To scroll through alarm events use up and down direction keys

Choose alarm event and press enter

Use up and down direction keys to select recorded event

Use right and left direction keys to select action

b. Via keyboard

To select alarm indicator, press 'search'

To scroll through alarm events use up and down direction on joystick

Choose alarm event and press 'enter'

Use up and down direction on joystick to select recorded event

Use right and left direction on joystick to select action

c. Via touch screen monitor

To select alarm indicator touch alarm key at the top left hand side of the screen

Use touch screen interface to select alarm events

Use up and down scroll bar to select recorded event

Press USB, email, playback to select action

Chapter 9: Backup / Export

In playback mode, press to save recording to USB flash disk.

MULTI-CHANNEL file format will be exported into the USB flash disk.

a. Via remote control

Once the HD IP Video Decoder is in DVR/NVR playback mode, press REC button. Recordings will export to the USB flash disk.

b. Via keyboard

Once the HD IP Video Decoder is in DVR/NVR playback mode, press on REC button. Recordings will export to the USB flash disk.

c. Via touch screen monitor

Once the HD IP Video Decoder is DVR/NVR playback mode, press USB button. Recordings will export to the USB flash disk.

Note: For all methods, when selecting backup period ensure file size is less than your backup device capacity. Longer periods may take more time to calculate.

Chapter 10: Event

Within the event menu, there are 2 options:

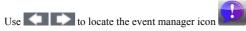
System event – refers to the systems performance

Operating event - refers to designated areas selected by the user



a. Via remote control

To access event manager press 'menu' key



Press 'enter' to select

b. Via keyboard

To access event manager press 'set'



c. Via touch screen/mouse

To access event manager press the menu icon



Scroll through the menu to locate the event manager icon

Press 'enter' to select

Chapter 11: Basic web-based browser viewing





Open Internet explorer and enter the HD IP Video Decoder's IP address into the address bar

The log on screen will appear

Enter your details

The default username is 'admin', the default password is '1111'.

To bring up a full screen, double click on the required camera view

Double click to return to multi screen

Chapter 12: Backup Manager

Backup Manager is a program provided to playback-recorded files from the HD IP Video Decoder and H.264 DVRs

Note: For first time Backup Manager users, please follow the onscreen instructions.

Backup Manager allows you to complete the following actions:

- Playback exported files
- Complete an FTP download
- · Convert already downloaded files

12.1 Playback exported files

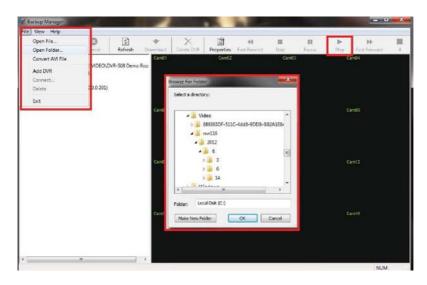
Open Backup Manager

To select files (USB disk) click file > open folder

Saved files will then appear

Highlight the desired time from the left hand tree

Press play and use the controls at the top to navigate through playback to change the screen view



12.2 FTP Download

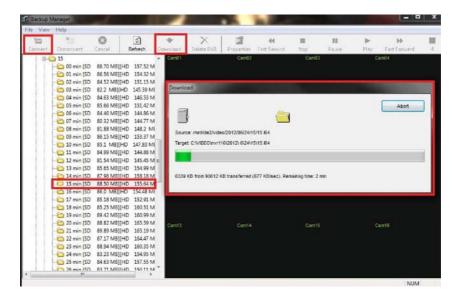
Open Backup Manager

Click file > Add NDR



Insert the IP address of the HD IP Video Decoder

Once the address has been added it will remain stored for future use



Highlight your HD IP Video Decoder from the left hand bar and click connect

A download panel will then appear. This means the Backup Manager programme is communicating with your HD IP Video Decoder gathering all recorded data. Recorded data will appear on the left hand side. You can access minute breakdowns from the tree.

Highlight your required file then click download from the controls at the top

Your files will begin to download

Downloaded files will show in the Backup Manager programme until deleted

12.3 Convert already downloaded files

Backup Manager allows you to convert multi-channel backups to single channel AVI files. To do this follow the steps below:

Open Backup Manager

Click file > convert AVI file

Locate desired backup files

Choose the channels you wish to convert. More than 1 channel can be selected

Click OK to start the conversion

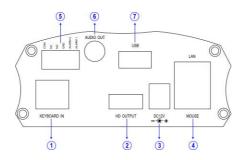
The file will now be saved in your desired location

Quick Installation Guide

This guide has been designed to provide a basic overview of key installation processes. If you require more detailed instructions, please refer to the full installation guide that follows this section

Chapter 1: Rear Panel

1.1 HD IP Video Decoder rear view



- 1. RJ-45 Keyboard In
- 2. HDMI Output
- 3. 12V DC Input
- 4. LAN / USB Mouse

Network RJ-45 connector and USB mouse.

5. Alarm I/Os

Alarm 2 input switches, 1 N/O alarm output, and 1 N/C alarm output

6. Audio Output

RCA audio connector

7. USB 2.0 connector

USB flash disk

Connect power supply, monitor, network cable and control device

Note: For easy installation, it is recommended that you connect a touch screen monitor or USB mouse.

Chapter 2: Time and Date Settings

Note: See user guide for how to navigate the system, i.e. menu's, camera selection etc.

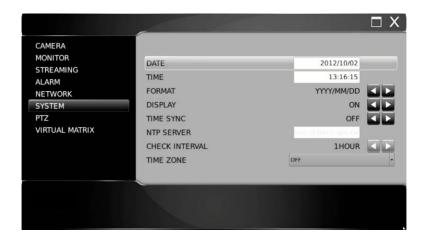
Enter the setup menu

Select system from the left hand options

Select date/time

Adjust time and date

Select display format



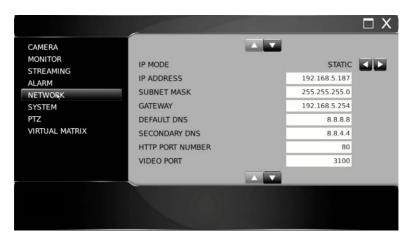
Chapter 3: Network Settings

Note: This guide will refer to a static IP address. For other options, see installation manual.

Enter the setup menu

Select network from the left hand options

Ensure static is displayed under IP mode



Enter your IP address and subnet mask range

Note: The installed IP cameras must be set to the same IP range as the HD IP Video Decoder.

Chapter 4: Adding Cameras

Enter the setup menu

Select camera from the left hand options

Select WS discovery

The HD IP Video Decoder will now search the network for installed cameras

Select 'Get Snap' to make camera identification easier



Assign the relevant cameras to a channel by selecting channel number in right hand camera column Exit menu setup and all installed cameras will be displayed By default they are set to record on schedule 24 hours a day

Note: If the IP addresses of installed IP cameras have not yet been configured, they can be changed by highlighting the channel and selecting 'Set IP'.

Menu configuration

Chapter 1: Setup Menu

The setup menu contains menu settings for cameras, monitors, recording, alarms, system, network, and PTZ. The details of all the setup menu items are described in this chapter.

1.1 Camera setup

To setup an IP camera, use the following steps:



1.1-1 Camera select

Use the directional arrows to select camera you wish to edit/add

1.1-2 Camera name

A user can enter up to 16 characters for a camera name. To setup the camera name, type the characters using the virtual keyboard and then press the Enter

Virtual keyboard:



1.1-3 Camera source

To setup a camera channel, you can select IP cam, demo video or no IP connection from this setting

1.1-4 IP Camera address

Once the source is set to an IP camera, you can enter the IP address of the IP camera for that specific channel. To manually set the IP address, press Enter to enable editing via the virtual keyboard. You can also use WS-Discovery for automatic IP address setup.

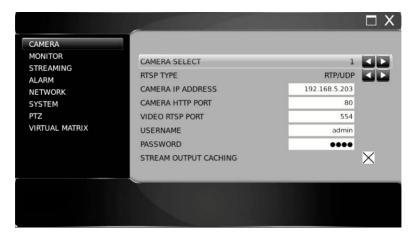
1.1-5 IP Camera HTTP port

By default, the HD IP Video Decoder IP camera 'HTTP' port is set to 80. This can be changed if required.

1.1-6 Video RTSP port

By default, the HD IP Video Decoder IP camera 'RTSP' port is set to 554. This can be changed if required.

1.1-7 IP Camera setup



- Camera IP address: the IP address of the IP camera
- Camera HTTP port: the HTTP port number of the IP address (default 80)
- Video RTSP port: the RTSP port number of the IP address (default 554)
- Username: username of the IP camera (default: admin)
- Password: password of the IP camera (default: pass)

1.1-8 WS-Discovery

Web Services Dynamic Discovery (WS-Discovery) is part of the ONVIF protocol for searching IP cameras on a LAN.



Use this utility to scan the LAN

After scanning, assign the relevant cameras to a channel by selecting the channel number in the right hand camera column

'Get Snap' will take an image for each listed camera to make identification easier.

Set IP:



If the IP addresses of the installed IP cameras have not already been configured, they can be changed by highlighting the channel and entering the new IP address

1.1-9 Camera Disable (Secured Recording Channel)

Channel enable feature can disable the live video of a camera

The channel can still perform video recording

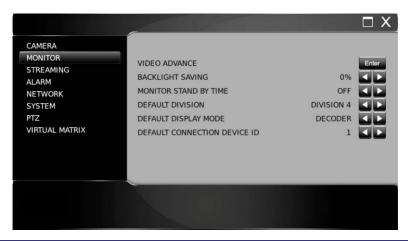
1.1-10 Video Setup



Contrast, brightness, saturation, sharpness, and load default can be configured individually for each camera

1.2 Monitor setup

For setting up HDMI and backlight saving, follow these instructions



Note: Certified HDMI cable at 2M is highly recommended for connecting HD IP Video Decoder to a monitor.

1.2-1. Video advance

Video advance enables you to set the brightness, contrast, and saturation of a HDMI LCD monitor

1.2-2. Backlight saving

Adjusting the backlight saving % reduces brightness of connected monitors, reducing power consumption

1.2-3 Monitor standby time

The monitor standby time can be adjusted

1.2-4 Default division

To select the default screen layout/display on power initialize

1.2-5 Default Display Mode

To select the default screen layout/display on Decoder, DVR/NVR, IP camera

1.2-6 Default Connection Device ID

To select the default connection device ID number from 1~255

1.3 Streaming setup

Streaming setup menu allows for streaming features such as streaming resolution, streaming quality, and frame rate



1.3-1 Camera select

Use the directional arrows to select camera you wish to configure

1.3-2 Resolution

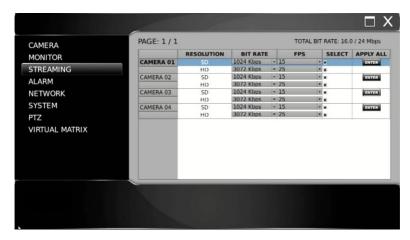
The HD IP Video Decoder can provide full HD or SD (D1) quality recording solutions

To change the recording resolution, use Left / Right arrows.

Warning: The IP network camera must support HD resolution video streaming for HD streaming.

1.3-3 Streaming advance

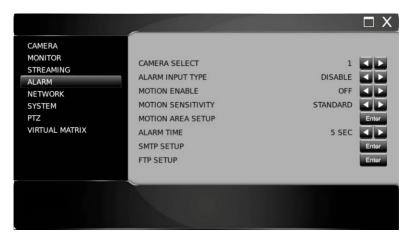
The HD IP Video Decoder is limited to a maximum of 24 MBPS (4 Channel) network throughput. For managing network bandwidth, use Streaming Advance.



Each camera can be set to the desired bit rate and frame rate. HD settings are for full screen streaming whilst SD relates to multi view display and recording. The total bit rate is displayed in the top right. You cannot exceed the maximum.

1.4 Alarm setup

The alarm setup menu allows the settings of external alarm switches, motion alarms, buzzers, and alarm recording durations to be changed. To change these settings, enter the Alarm setup menu.



1.4-1 Camera select

Use the directional arrows to select the camera you wish to configure

1.4-2 Alarm input type

The HD IP Video Decoder alarm inputs can be configured as normal open (N/O), normal close (N/C), or IP camera where the alarm signal from an IP camera activates the alarm.

1.4-3 Motion enable

'Motion Enable' enables motion alarm recording, after the motion detection area ('Motion Area Setup') has been set. Press Left or Right at Motion Enable to change the setting.

1.4-4 Motion sensitivity

There are eight levels of sensitivity adjustable for motion alarm triggering, ranging from 'Highest' to 'Lowest'. Press Left or Right to change the sensitivity setting.

1.4-5 Motion area setup

There are a number of ways to set the motion detection area. The detailed setting sequence is described as follows:



	Keyboard	Remote controller	Mouse
Step 1	Enter Motion Area Set menu item.		
Step 2	Press Up, Down, Left, or Right to move cursor		Move mouse for starting position
Step 3	Press Enter to define starting area		
Step 4	Press Enter again to finish a motion detection zone		Mouse-drag for an area
Step 5	To clear motion zones press Menu button		Double-click for clear motion zones
Step 6	Press ESC for exit the setting menu		Move mouse to "X" icon and press Left-
			mouse click to exit motion zone setting

Red indicates motion area

1.4-6 Alarm time

Set the period of time 1-100 seconds. The alarm output relay is triggered upon an alarm event

1.4-7 SMTP setup

HD IP Video Decoder is capable of sending JPEG snapshots to an email account when an alarm event is triggered. To enable this feature, you must type in the email account information.

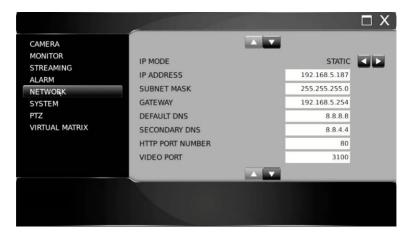
1.4-8 FTP setup

HD IP Video Decoder is capable of alarm snapshot to an FTP server. To enable this feature, you must type in the relevant FTP account information.

1.5 Network setup

In order to connect HD IP Video Decoder to LAN or the Internet you require the following information. Subnet mask, gateway and IP address. Consult your system administrator for above information.

It is highly recommended that the HD IP Video Decoder is accessed on a high bandwidth network such as Gigabit LAN.



1.5-1 IP mode

Set the HD IP Video Decoder to Static, DHCP, and PPPoE IP modes. It is highly recommended that the HD IP Video Decoder is accessed on a high bandwidth network such as Gigabit LAN's.

1.5-2 IP address

Enter the IP address for the HD IP Video Decoder using the virtual keyboard

1.5-3 Subnet mask

Enter the Subnet Mask for the network using the virtual keyboard

1.5-4 Gateway

Enter the Gateway address for the network using the virtual keyboard

1.5-5 Default DNS

Enter the Default DNS address for the network using the virtual keyboard

1.5-6 Secondary DNS

Enter the Secondary DNS address for the network using the virtual keyboard

1.5-7/8 HTTP Port Number and Video Port Number

For Internet connection, port number IP mapping technologies can be used for a single IP address shared by multiple devices, via a network router. Consult your network administrator for advanced network support. HTTP Port number is the web service port number of the HD IP Video Decoder

Note: Default Internet port numbers for the IP HD Video Decoder are:

Port 80 (HTML web page) Port 3100 (video port)

1.5-9 FTP Port Number

HD IP Video Decoder has a built-in FTP server. The FTP service is also used by Backup Manager.exe. Backup Manager can manage all the HD IP Video Decoder playback clips via a network.

1.5-10 MAC

Display the MAC address of the HD IP Video Decoder

1.5-11 PPPoE IP

Enter IP address

1.5-12 DDNS



If your HD IP Video Decoder has Internet access it will automatically try and register at www.ddnsipcam.com. It will automatically use the last 6 digits of the HD IP Video Decoder MAC address as the host name.

For access enter http://10685D (last 6 digits of MAC) ddnsipcam.com into your browser

Login to the HD IP Video Decoder with your default user name and password

1.5-13 PPPoE

To use ADSL modem, enter the "username" and "password" provided by the Internet Service Provider (ISP) for the Internet connection service.

1.5-14 Network advance



The HD IP Video Decoder can have up to 3 network ranges to see cameras across multiple subnet ranges

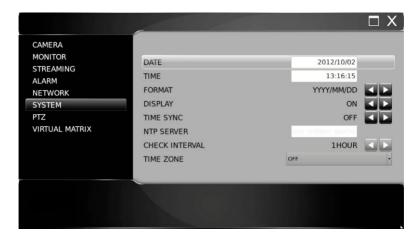
1.6 System setup

To set up the system settings, use the following instructions:



1.6-1 Date/Time

Press enter to set Date/Time on the HD IP Video Decoder. The display format can also be set here. If a Keyboard is connected time Sync can be set, the HD IP Video Decoder will then sync its time from the keyboard every 15 minutes. Or a NTP (network time protocol) server can be selected.



1.6-2 Password/Access

The HD IP Video Decoder can be configured for up to 15 users with different access rights Scroll to select between:

Admin (default password 1111)

Operator (default password 2222)

Guest (default password 3333)

Users 1 to 12

Once a user is selected you can edit passwords, enable password protection and set up the following user rights:

- Allow Setup
- Allow Playback
- Allow PTZ
- Allow Backup
- Allow Division

- Allow Shutdown
- Allow Alarm
- Allow Shortcut
- Allow Network Setup
- Allow Network Playback

Note: In the event of a forgotten password, please contact your sales representative.

1.6-3 Factory reset

A user may want to restore factory default settings. A confirm message will show for final verification. To perform this task, select Factory Reset at System > Factory Reset and press Enter.

Note: Factory reset does not affect IP address, video system, and language settings.

1.6-4 Remote device ID for remote control

Each HD IP Video Decoder can be assigned a unique ID to be accessed by the remote controller. With a unique ID set, the remote controller issues commands to a particular HD IP Video Decoder device. All other HD IP Video Decoder's are in sleep mode

1.6-5 Firmware update

Firmware update allows you to upgrade the HD IP Video Decoder firmware to improve system performance. To perform firmware update, press Enter on Setup > System > Firmware Update. There are two ways to perform firmware update via (1) via USB flash disk at the HD IP Video Decoder site (2) via HTML interface via network

Prepare firmware

To prepare a firmware update, create a directory called 'firmware' in the USB flash disk. The USB flash disk should use the file system FAT-16 or FAT-32. Visit our web site at www.meritlilin.com to download the latest firmware and save the file in the directory mentioned above. The firmware name of the HD IP Video Decoder is 'Flashvd022.bin'.



To perform firmware update using USB flash disk, follow the instructions:

- 1. Plug in a portable USB disk at the HD IP Video Decoder's USB port
- 2. Press Enter at Start Update Firmware
- 3. Once the transfer is complete, remove the USB device and reboot the HD IP Video Decoder
- 4. Ensure that the firmware is located in the firmware directory of the USB disk

Export setup

The export setup feature allows a user to export internal configuration into a system file on the USB flash disk's firmware directory. The file can later be imported to other machines. The imported machine's internal configuration gets updated based on the original HD IP Video Decoder configuration. To perform Export Setup, select 'Export Setup' and press Enter.

Import setup

Select 'Import Setup' and press Enter.

The configuration of the HD IP Video Decoder is updated based on the system file

Firmware and kernel version

Version menu item indicates the current version number of the HD IP Video Decoder

1.6-6 Language

The HD IP Video Decoder provides multi-language OSD support. Users can change the preferred language.

Press Left or Right to change the language setting

1.6-7 Audio volume

To turn on or off live audio volume monitoring, set Live Audio option.

1.6-8 USB Storage Information

To detect the USB storage information status and format function.

1.7 PTZ setup

The HD IP Video Decoder can control RS-485 PTZ or IP PTZ cameras. To setup PTZ connection, follow these instructions:



1.7-1 Camera select

Use the directional arrows to select the camera you wish to edit

1.7-2 PTZ transport

Select from ONVIF, HTML or RS-485 transport. If RS-485 is selected the camera must be connected to the RS-485 output on the back of the HD IP Video Decoder.

1.7-3 PTZ protocol

PTZ protocols include MLP1, MLP2, Pelco D, and Pelco P.

1.7-4 PTZ model and baud rate

If the PTZ protocol is transmitted via traditional RS-485 wires attached to the HD IP Video Decoder you need to setup the baud rate and RS-485 ID respectively.