HDRH-44-2U
Hybrid H.264 DVR – 4 CH. Full HD SDI + 4 CH. CVBS Analog
Quick Setup Guide

A.	One (1)	HDRH-44-2U DVR
B.	One (1)	Remote Controller
C.	Two (2)	AAA Battery for Remote Controller
D.	One (1)	USB Mouse
E.	One (1)	Power Cord
F.	Two (2)	Rack Mount Ear w/ Screws
G.	Two (2)	4 Screw on Terminal Connector
H.	Two (2)	8 Screw on Terminal Connector
I.	Sixteen (16)	Hard Drive Screws
J.	One (1)	Loop out Cable DB 15 to 4 CVBS for Analog Channel
K.	Two (2)	eSATA Cable
L.	Six (6)	SATA Cable Inside DVR
M.	One (1)	Quick Set up Guide Book
N.	One (1)	User's Manual & CMS Software CD

A.

B.

C.

x 2

D.

E.

F.

x 2

G.

x 2

H.

x 2

I.

x 16

J.

k.

x 2

L. Inside the DVR

x 6

M.

DVR
Quick Set up Gudle

N.
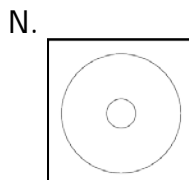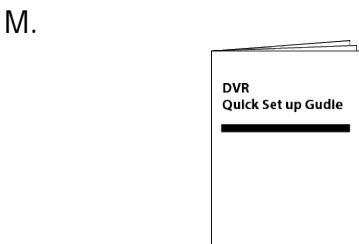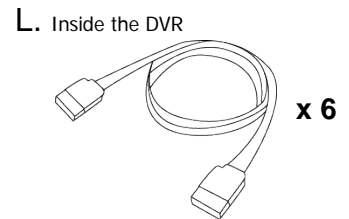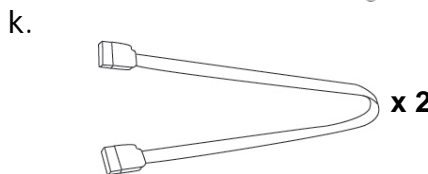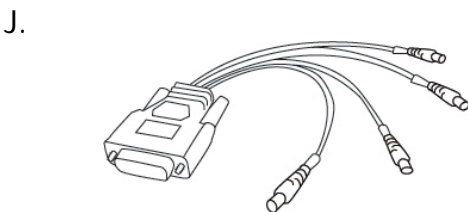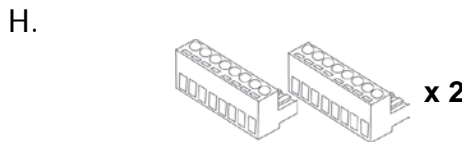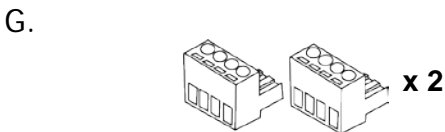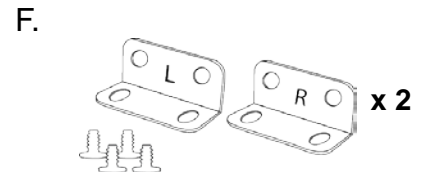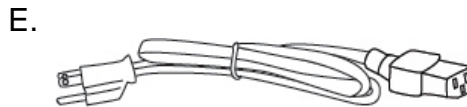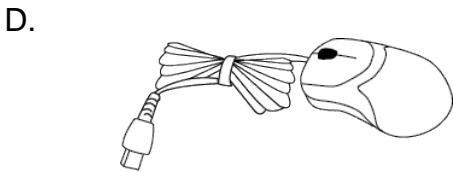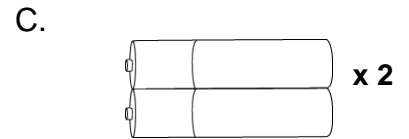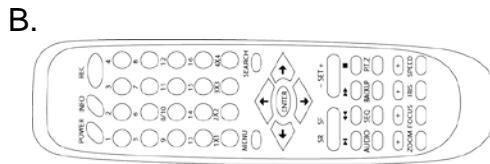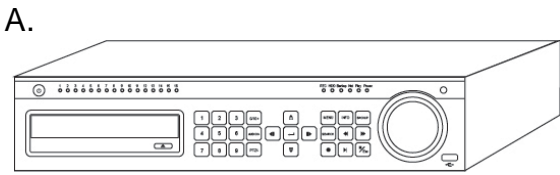
*Note: Any Return Must Include All Components.
Missing Components will be charge.
We highly recommend installing a UPS Battery Backup
System to avoid power failure restore damage to
Hard Drive & motherboard.*

Please read this Quick Setup Guide before installation.

MADE IN TAIWAN

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R201302-V019

Panel Definition

1. Front Panel
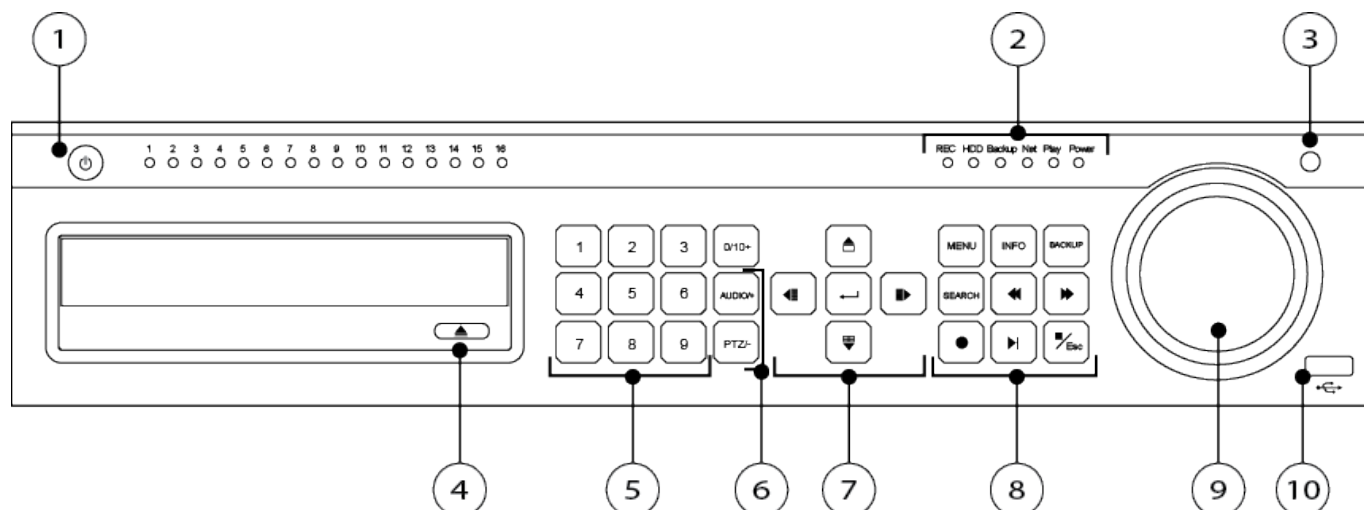
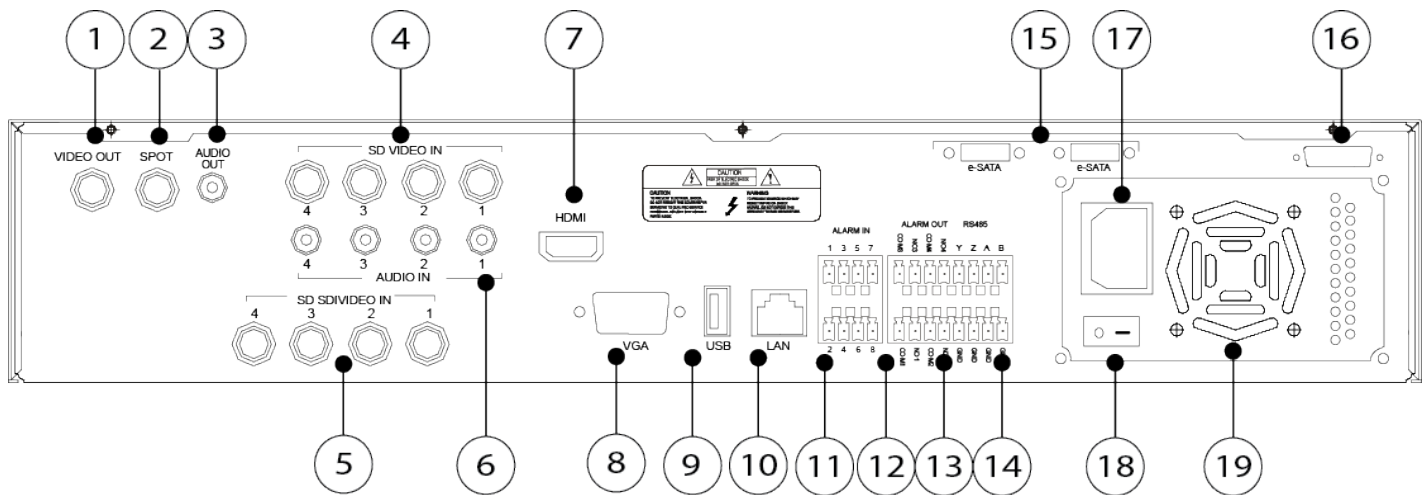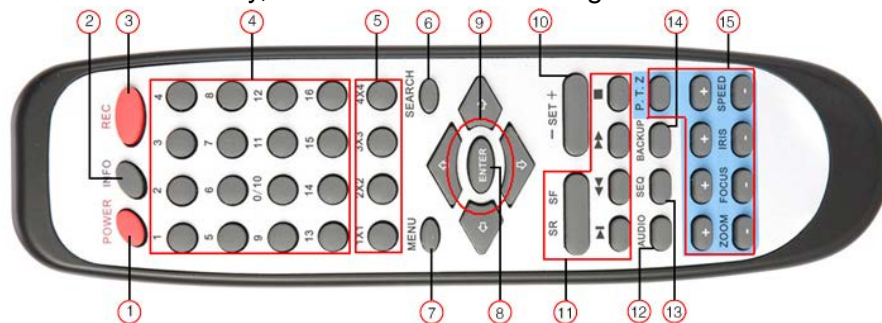| Item #		Label Name	Function
1	Power Switch	⏻	Power on/off
2	Work state indicator	REC	When recording, the light is blue
		HDD	When HDD is writing and reading , the light is blue
		Backup	When backup files and data, the light is blue
		Net	When access to network , the light is blue
		Play	When playing video, the light is blue
		Power	Power indicator, when connection , the light is blue
3	IR receiver		Remote receiver
4	Eject Button	⏏	Eject DVD
5	Digital Button	1-9	Input number 1-9 or choose camera
		0/10+	Input number0, 10 and the above number together with other digital keys
6	Compound Button	P.T.Z./-	1. Enter PTZ mode in live 2. Decrease the value in setup
		AUDIO/+	1. Control voice 2. Increase the value in setup
7	Input button	Direction button	Change direction to select items
		Multi-screen	Change screen display mode like1/4/9/16 channel
		Enter button	Confirm selection
8	Function button	MENU	Enter menu in live
		INFO	Check recording data
		●	Record manually
		▶❙	Play/Pause
		◀◀	Rewind
		▶▶	Fast forward
		■/Esc	Exit/ESC
		BACKUP	Enter backup mode in live
		SEARCH	Enter search mode
9	Split / Direction Key		Switch split / Move selected item
10	USB	USB port	To connect external USB devices like USB flash, USB HDD for backup or update firmware;

2. Back Panel

Item #	Label Name	Function
1	Video out	BNC Connect to monitor
2	Spot	BNC Connect to monitor as an AUX output to display channel by channel. Video would be displayed without OSD.
3	Audio out	RCA Audio output, connect to Speaker
4	SD Video in	BNC CVBS video signal input, Recommend use Gold Center Plan
5	HD SDI Video in	BNC HD SDI video signal input
6	Audio in	RCA 4 CH Audio input
7	HDMI port	HDMI Connect to high-definition display device
8	VGA port	VGA output, connect to monitor
9	USB port	To connect external USB devices like USB flash, USB HDD or USB mouse. Recommend using for USB mouse
10	LAN	Network port
11	ALARM IN	Screw in connect to external sensor1-8
12	ALARM OUT	Screw in 4ch relay output. Connect to external alarm.
13	P/Z	Screw in Connect to Speed Dome, Y is TX+, Z is TX-
14	K/B Controller	Screw in Connect to Keyboard Controller, A is TX+, B is TX-
15	E-SATA	Connect to External HDD for backup
16	LOOP OUT	DB 15 for outputting 1-4ch image independently to 4 BNC Pigtail
17	POWER INPUT	AC 110V-220V
18	POWER SWITCH	Switch on/off
19	FAN	For cooling the device

Control Option

1.

1. Remote Controller

◆ This remote control uses AAA battery, the definition as following:

Item #	Label Name	Function
1	Power	System shut down
2	INFO	Enter information page
3	REC	Manual record

Item #	Label Name	Function
4	Digital Button	Enter digital or switch channel
5	Split Screen	Switch split screen
6	SEARCH	Enter search mode
7	MENU	Enter Mode
8	ENTER	Enter
9	Direction Button	Move item or PTZ direction
10	+/-	Add or reduce value
11	Playback Control	Playback control FF/REW/STOP/STEP
12	AUDIO	Live audio switch
13	SEQ	Sequence
14	BACKUP	Enter Backup mode
15	PTZ Control	Control PTZ Zoom/Focus/Iris/Speed

◆ Switch Remote Control ID

1. Take remote control and point to DVR then continuously press **"8","8","ID(0-65535)","Enter".**
2. Make change on DVR ID Setting,
   Go to **"SYSTEM MENU" > "DEVICE ID"** to make change
   ＊The ID must be the same on DVR.
   ＊For example: If ID=1 ,
   Please take remote control and point to DVR then press **8,8,1,Enter**.
   Then go to **"SYSTEM MENU" > "DEVICE ID"** change the **ID=1**

2.3 Mouse Control: **REQUIRED**

◆Connection: Recommend to connect the USB mouse to the back panel.

◆Mouse functions：

1）Under LIVE mode：

On every channel，you could double click the left button to switch FULL SCREEN and double click again to switch back to original split mode.

On every channel，you could single click right button to popup MENU page.

2）Under MENU page：

Single click left button on any functional icon could enter the function page and Single click right button to exit function page or jump back to previous page.

If you want to key in letter or digit, please move mouse to textbox then single click left button on textbox. The OSD keyboard will pop up as following,

3）Under Backup mode：

Single click left button to select item, single click right button to jump back to previous page.

4）Under PTZ mode：

Single click left button to operate PTZ function, single click right button to jump back to previous page.

Wizard setup

1. Wizard for language and time setup

Device Name: to set a name of DVR.
Language: to set a proper language.
Date Format: to set a proper display format of time.
Time Format: to set 24 hour or 12 hour format to display.
Time Zone: to set proper time zone (GMT-8: Los Angeles) ＊Caution: Please make sure to set time zone correctly.
To prevent getting different time stamps between local and remote site.
System Date: to set current system date time.
Please click "next" to next wizard process.

2. Wizard for Record setup

You can setup record frame rate and quality for each channel and change record resolution.

Adjustable parameter as following,
Resolution: CIF, HD1 or D1
Frame rate: *Number of channel.resolution@NTSC frame rate(PAL frame rate)*

4 CH   4CIF@30(25)   4HD1@30(25)   4D1@30(25)

Quality: Highest/ Higher/ Normal/ Low/ Lower/ Lowest

If you want to change all channel setup at once, please click "All" then setup resolution, frame rate and quality at right hand side.
Please click "next" to next wizard process.

1.1   Motion Detection Recording:

Motion Detection Recording: Enter Main Menu → Setup → Alarm → Motion

Enable the Channels to turn on Motion Detect Record.
**Motion Schedule Default: is set to Full Time motion recording on all channels.

**If Schedule Motion Recording needs to be changed**:

To modify motion recording schedule click on the **pencil icon** located on the upper right of the screen, then click on desired days and times to schedule recording when motion trigger.

If same schedule apply to all channels. After highlighting desired squares apply settings to "**All" Channel**, click "**Copy"and** click Apply **to save setting. To Enable full time motion Recording**, highlight the entire **Blue Grid**.

1.2   Full Time Recording :

1. Press "**Record"** Button on the front panel of the DVR. Green box will appear on screen to confirm that manual recording is enabled. Press "**Record"** Button again to stop recording.

   OR Right click on main screen and select "**Record**".
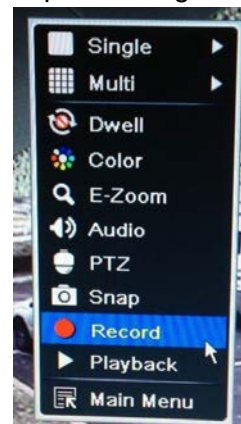
Note: Definition of Holding Time (on motion detect setting) :

After motion record is activated and there is **NO** activity within 10 seconds this will be handled as one event. Otherwise if there **IS** activity within that time frame it will continue recording.

Note: Change Daylight Savings on the first week of March and second week of November.

3. Wizard for HDD setup

You can format HDD by using "Format" function.
After HDD format completed, it will show "Normal" label on status.
＊Please make sure to backup all HDD data before you format the HDD.
All HDD data will be erased after HDD formatted.
Please click "Finish" to get into login page.

Network Setup: Static IP Address & DDNS

Part 1. Static IP Address

1. Enter Main Menu screen by pressing the **MENU button** on the front panel of the DVR.
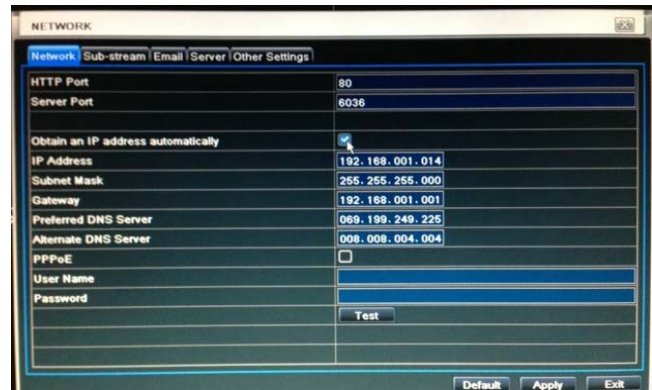   Then enter password "123456" and click Login

2. Select **Setup**.

3. Select **Network**.

4. Select "**Obtain an IP address automatically**," turn on this feature.
   Then Select **Apply** at the bottom of the screen to restart the network.
   This will generate a new IP Address.
   (Make sure Ethernet Cable is plugged in)

5. After **Apply**, the IP Address, Netmask, Gateway, and DNS addresses should automatically be generated.

   *For STA

   TIP: Write down HTTP Port, Server Port, and IP Address on a piece of paper for reference. You will need these numbers later in the installation.

   TIP: If you do not know a DNS address and the DVR did not populating those fields by itself, try 8.8.8.8 and 8.8.4.4. These are Google's public DNS addresses, and in addition to working well.

6. Uncheck "**Obtain an IP address automatically**" to turn off this feature and make IP Address stay the same. Then click **Apply**.
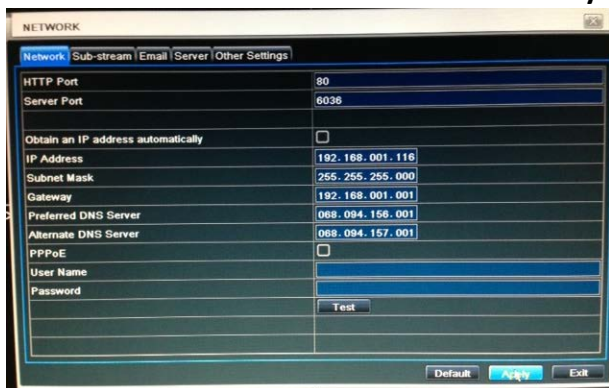
Continued For DDNS

Set up ➡ Part 2

Part 2. DDNS

1. **Continue Part 1**: Select "**Other Setting**" from the Tab bar and turn on DDNS.

2. Select DDNS Type and pick one website from the given field to register your Host Domain Name.

TIP: We recommend using www.dvrdydns.com, www.dynddns.us, and www.no-ip.com because they are free.

3. Using your Internet Browser, go to that website you selected and REGISTER to obtain User Name, Password, and Host Domain information to setup DDNS for your DVR.

TIP: Write down Name, Password, and Host Domain information for reference to use later in installation.

Step 1

Step 2

Step 3

Tip: When using other DDNS websites you may be required to enter your external IP Address to register your Host Domain Name.
- To find your external IP Address use this website:
http://www.whatsmyip.net

4. Now enter User Name, Password, and Host Domain that you wrote down earlier and click Test - After Test passes, then click **Apply** and **Exit**.
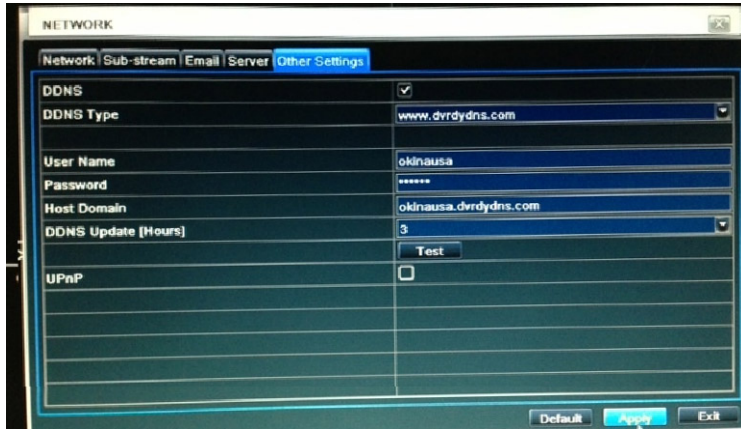
TIP: The DDNS URL will always be in the form of <hostname>.dvrdydns.com

If you are unable to access the DVR from the internet using the DDNS URL, but the IP works, please double check that you have the DDNS URL correctly typed

5. Finally, you will need to set port forwarding on your internet-facing router/gateway to direct port 80 traffic to the DVR. Also you will need to port forwarded your server port 6036 to stream video and audio as well. Locate the page in your router settings to set port forwarding (may also be labeled "firewall").

|	
HTTP Port: Port for IE connection. (Default is 80)	80
Server Port: Port for video and audio streaming. (Default is 6036)	6036
Incoming Port Range (advance)	80-80 (or alternative if port 80 is being used)
Forward Port (advance)	80, 6036
IP	Your DVR's internal IP, typically 192.168.x.x
Protocol (advanced)	TCP & UDP

TIP: *Some consumer router/gateway devices may present the firewall settings as a list of services to forward. In this case, consult the manual for settings for creating a custom service and use the above values. For router/gateway devices provided by your ISP, please contact your ISP technical support.*

DDNS Hosting Server

Item #	DDNS Server Website	Notes
1	www.dvrdydns.com	Recommended, Free Log In or Create a *FREE* account to start monitoring this domain name.
2	www.no-ip.com	Recommended, Free for entry level service. Enhanced Domain membership for more features is available but is charged. Visit website for more information.
3	www.dyndns.us	Recommended,Free Log In or Create a *FREE* account to start monitoring this domain name.
4	www.meibu.com	It's a **Chinese** website, Free for second- level domain names, but the website will verify your information.
5	www.dyndns.com	$15/year.

* Note: For further assistance regarding technical support and more details, please visit DDNS Server Website.

Mobile App: Super Live Pro
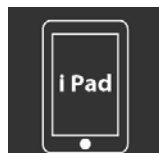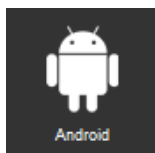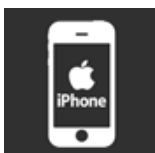
*Please check specification sheet on the User's Manual.
**Quick Setup Guide & User's Manual are subject the change without notice.

Additional DVR Option

Full D1 Realtime H.264 DVR – 4CH.
DDR-04

HD SDI H.264 DVR – 4CH.
HDRS-04-1U

Full D1 Realtime H.264 DVR – 8 / 16 CH.
DDR-08
DDR-16

HD SDI H.264 DVR – 8 / 16 CH.
HDRS-08-2U
HDRS-16-2U

Hybrid H.264 DVR – 4CH. HD & 4 CH. Analog
HDRH-44-2U

For more information please visit

www.mydvrremote.com