VMAXHD Flex Quick Setup Guide
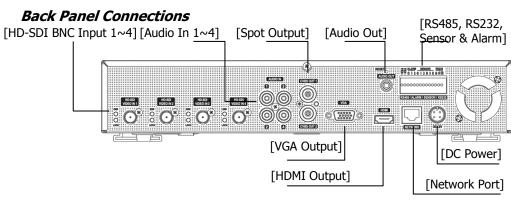
DW DIGITAL WATCHDOG Everything's Digital

Default Username and Password: Administrator/ no password

1. Start Installation
Please note that the Accessory Kit contains the following items:

DVR Unit		Remote Control	
DC Power Adapter		Quick Setup Guide	Quick Guide
Power Cord		CD (User Manual + Remote Client Software)	

Back Panel Connections
[HD-SDI BNC Input 1~4] [Audio In 1~4]   [Spot Output]   [Audio Out]   [RS485, RS232, Sensor & Alarm]

[VGA Output]

[HDMI Output]

[DC Power]

[Network Port]

Video Input
Connect **HD-SDI** camera to '**HD-SDI video in'** with a regular BNC cable to minimize video noise.

HD-SDI VIDEO IN 1
ERR
LOCK

- **LOCK (Green LED)**: Turned on when the camera is connected properly.
- **ERR (Red LED)**: Turned on when an error is detected in data receiving.
You may still get a live image from the camera even though the error light is ON.

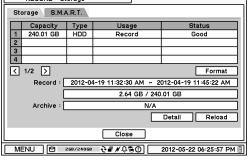* Use RCA for audio inputs. All channels need an external pre-amplifier

* Spot output : 2 spot outs with CVBS output**.**

DVR Installation Safety Tips
1. Make sure the cameras and the monitors are properly connected to the DVR.
2. The DVR should be placed in a dust and moisture free environment. It must never be exposed to direct sunlight. Server room temperature is highly recommended to reduce the chance of overheating.
3. During the boot process, the DVR should not be interrupted by pressing any buttons on the mouse or remote control. Do not unplug the power adapter or turn the DVR off during the boot process. A UPS (Uninterruptable Power Supply) is highly recommended to prevent malfunctioning during a power outage.

2. Login
To enter the DVR setup menu, you will need an ID & password. To Change the default password, go to MENU > System > User and change or set password. Default username and password: Administrator/ no password.

Login
ID : Administrator
Password :
OK   Cancel
0 1 2 3 4 5 6 7 8 9

3. Main Menu & Navigation
The Main Menu (Setup Menu) system includes six (6) sub-menus: System, Device, Display, Record, Network, & Event. To access the Setup Menu, right-click anywhere on the screen and select 'Setup Menu'.
Use the USB mouse to navigate the DVR's main menu and popup options or use the included IR Remote Control.

4. Date & Time Setup
It is recommended to setup the date & time on the DVR before you setup a recording schedule to prevent any data loss.
To setup the DVR's date & time: go to Menu > System > Date & Time
1. Select the appropriate time zone
2. If applicable, check the 'Use Daylight savings Time' to enable that feature. Set the beginning and ending time for daylight savings.
3. Choose the date display format.
4. Choose the time display format.
5. Click 'OK' to save, or 'Cancel' to discard the changes.
6. If necessary, setup the DVR to sync with an NTP server under the NTP tab.

SYSTEM : Date & Time
Date & Time | NTP | Holiday
Time Zone : (GMT-00:00) Greenwich Mean Time : Dublin, Edinbur
☑ Use Daylight Saving Time

	Month	Week	Day	Time
Begin	3	5	SUN	02:00:00 AM
End	10	5	SUN	03:00:00 AM

Date : 2012-07-19 Format
Time : 04:11:10 PM Format
OK   Cancel

5. Formatting the Hard Drive
It is necessary to format the DVR's HDDs before setting a recording schedule to guarantee the proper functionality of the HDDs. To format the DVR's HDDs, go to Menu > Record > Storage.
1. All available HDDs will be displayed in the table.
2. To format an HDD, select it from the table, and press the 'Format' button.

RECORD : Storage
Storage | S.M.A.R.T.

	Capacity	Type	Usage	Status
1	240.01 GB	HDD	Record	Good
2				
3				
4				

1/2   Format
Record : 2012-04-19 11:32:30 AM ~ 2012-04-19 11:45:22 AM
2.64 GB / 240.01 GB
Archive : N/A
Detail   Reload
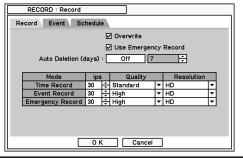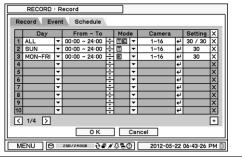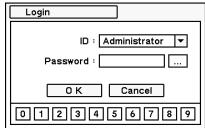Close
MENU   2GB/240GB   2012-05-22 06:25:57 PM

6. Record setup
The DVR starts recording automatically when the DVR boots-up. The default recording setup is maximum recording speed and standard picture quality. To adjust the DVR's recording options: go to Menu > Record > Record.
1. All connected channels will display the current FPS, quality, and resolution.
2. Use the arrows to change the recorded frames per second.
3. Use the drop-down menu to select the image quality. The higher the quality, the larger the file size will be.
4. Use the drop-down menu to select the resolution. The higher the resolution, the larger the file size will be.
5. Select whether to overwrite data once the HDD is full.
6. Check the box next to 'Use Emergency Record' to enable the Emergency Recording option.
7. Set the DVR to automatically delete recorded data every X days by turning the 'Auto Deletion' option ON, and selecting the number of days.
8. You can also setup different recording schedules for different cameras, different hours of the day, and different days of the week. Go to Menu > Record > Schedule to setup recording schedules.

RECORD : Record
Record | Event | Schedule
☑ Overwrite
☑ Use Emergency Record
Auto Deletion (days) : Off 7

Mode	ips	Quality	Resolution
Time Record	30	Standard	HD
Event Record	30	High	HD
Emergency Record	30	High	HD

OK   Cancel

RECORD : Record
Record | Event | Schedule

Day	From – To	Mode	Camera	Setting	X
1 ALL	00:00 ~ 24:00		1~16	30 / 30	X
2 SUN	00:00 ~ 24:00		1~16	30	X
3 MON~FRI	00:00 ~ 24:00		1~16	30	X
4					X
5					X
6					X
7					X
8					X
9					X
10					X

1/4
OK   Cancel
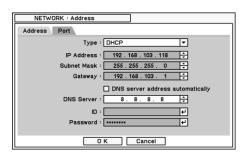MENU   2GB/240GB   2012-05-22 06:43:26 PM
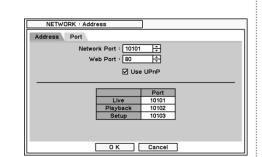
7. Network Setup
To setup the DVR's network settings, go to Menu > Network.
- In Address, select the network connection type.
  Select **DHCP** if your network supports DHCP and you would like the DVR to assign itself an IP Address automatically based on the network settings.
  Select **Static** if your network does not support DHCP, and you would like to access your DVR remotely over the internet. Manually enter all the information. Please contact your network administrator for more information on your network requirements.
  a. IP Address: Enter IP address using the arrow buttons.
  b. Subnet Mask: Enter Subnet Mask using the arrow buttons.
  c. Gateway: Enter Gateway using the arrow buttons.
  d. DNS: Enter the IP address of a DNS server.
     ID and Password are required in ADSL(with PPPoE) type.
- In Port, select the appropriate port number for external access to the system. The port list shows necessary ports to be opened for each operation.
  a. Network Port: Set port for DVR Remote Client. Default is: 10101.
  b. Web Port: Set port for Web Remote Client. Default is: 80.
  c. Default TCP port is 10101 but it can be set from 1500 to 32000 if necessary.

NETWORK : Address
Address | Port
Type : DHCP
IP Address : 192 . 168 . 103 . 118
Subnet Mask : 255 . 255 . 255 . 0
Gateway : 192 . 168 . 103 . 1
☐ DNS server address automatically
DNS Server : 8 . 8 . 8 . 8
ID :
Password : ********
OK   Cancel

NETWORK : Address
Address | Port
Network Port : 10101
Web Port : 80
☑ Use UPnP

	Port
Live	10101
Playback	10102
Setup	10103

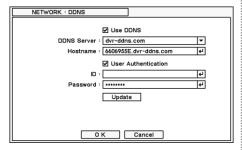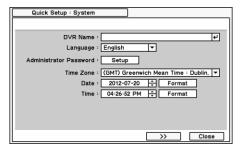OK   Cancel

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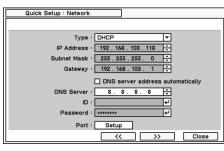
8. Registering a DDNS

- The Dynamic Domain Name Server allows you to connect to your DVR using a URL rather than an IP Address. If your DVR is setup to DHCP, a DDNS address will simplify your connection by automatically tracking your DVR's DHCP address once it changes, eliminating your need to track it every time the router changes it.
- "dvr-ddns.com" and "www.dyndns.org" offer free registrations for DDNS service. Refer to the DVR manual's DDNS set up page for instructions.
- Host Name: Name the DVR or site.
- ID/Password: ID and password are required for authentication.

```
NETWORK : DDNS
          ☑ Use DDNS
DDNS Server : dvr-ddns.com          ▼
Hostname : 6606955E.dvr-ddns.com    ↵
          ☑ User Authentication
ID :                                ↵
Password : ********                 ↵
          Update

          O K    Cancel
```
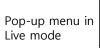
9. Quick Setup

The VMAXHD Flex's Quick Startup Wizard is designed to make the installation process of your new DVR as quick and easy as possible. This startup wizard will automatically appear when you first boot up your DVR and will guide you through setting up some of the DVR's more critical features. The Wizard includes Date & Time, Recording, Network, Storage, and Display Setup. If you do not want to follow the Startup Wizard you can disable it by clicking the [CANCEL] button and adjusting your settings manually via the DVR's main menu.
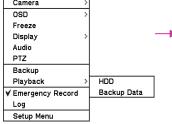
```
Quick Setup : System
DVR Name :                          ↵
Language : English      ▼
Administrator Password : Setup
Time Zone : (GMT) Greenwich Mean Time : Dublin, ▼
Date : 2012-07-20    Format
Time : 04:26:52 PM   Format
                      >>    Close
```

```
Quick Setup : Network
Type : DHCP             ▼
IP Address :  192 . 168 . 103 . 118
Subnet Mask : 255 . 255 . 255 .  0
Gateway :     192 . 168 . 103 .  1
          ☐ DNS server address automatically
DNS Server :    8 .  8 .  8 .  8
ID :                                ↵
Password : ********                 ↵
Port : Setup
                 <<    >>    Close
```

Playback

To access the DVR's recorded video and search playback, right-click anywhere on the screen and select Playback > HDD. Refer to the images below for the different pop-up menu options in live and playback.

```
Live: Administrator
Camera          >
OSD
Freeze
Display         >
Audio
PTZ
Backup
Playback        >    HDD
✔ Emergency Record   Backup Data
Log
Setup Menu
```

Pop-up menu in Live mode →

```
Playback: Administrator
Camera          >
Go to
Calendar Search
Event Search
Text-In Search
OSD             >
Zoom
✔ Audio
Backup
Storage         >
✔ Emergency Record
Log
Exit Playback
```

Pop-up menu in Playback mode

The VMAXHD Flex allows you to search your DVR's recorded data via multiple search options, allowing you to find exactly what you are looking for fast and easy.

- **a. Go to Time** (search by time): Select a specific date and time to playback.
  - i. Go to Beginning: Move to the first of recorded data.
  - ii. Go to End: Move to the end of recorded data.
  - iii. Go to 5 ~ 60 Seconds ago: Move to 5 ~ 60 seconds from current time.
- **b. Calendar search**: Select a date to search recorded data.
- **c. Event Search**: Use the event list to search & playback recorded data.
- **d. Text in Search**: Search playback data by text input. i.e.: POS/ATM .
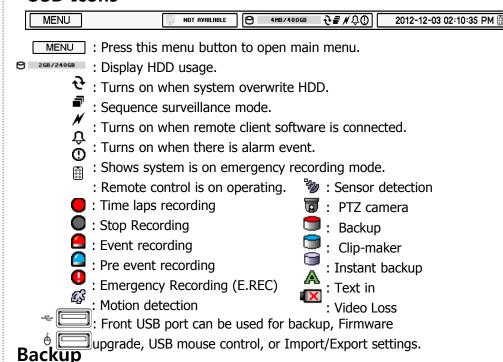
Web Viewer

The VMAXHD Flex can be accessed remotely using Internet Explorer. To connect to the DVR remotely over the internet, make sure your DVR has been properly setup for external connection and all ports have been properly forwarded in your router.
Contact your Network Administrator for more information.

1. Open an Internet Explorer page.
2. Enter the DVR's IP address or DDNS address.
3. Enter the DVR's username (Default: Administrator), password (Default: Blank, and port information (Default Port: 10101)
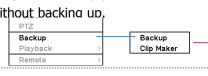4. Select to launch the DVR's web viewer in live or playback mode.

```
Windows Internet Explorer
http://192.168.1.14:10003/
Remote Monitoring System
ID
Password
Port Number
Live    Playback
```

OSD Icons

```
MENU       NOT AVAILABLE   🖴 4MB/480GB  🔄📑⚡🔔⏱  2012-12-03 02:10:35 PM
```

- `MENU` : Press this menu button to open main menu.
- 🖴 2GB/240GB : Display HDD usage.
- 🔄 : Turns on when system overwrite HDD.
- 📑 : Sequence surveillance mode.
- ⚡ : Turns on when remote client software is connected.
- 🔔 : Turns on when there is alarm event.
- ⏱ : Shows system is on emergency recording mode.
- : Remote control is on operating.
- 🔴 : Time laps recording
- ⚫ : Stop Recording
- 🔴 : Event recording
- 🔵 : Pre event recording
- ❗ : Emergency Recording (E.REC)
- 🏃 : Motion detection
- : Sensor detection
- : PTZ camera
- : Backup
- : Clip-maker
- : Instant backup
- A : Text in
- ❎ : Video Loss
- 🔌 : Front USB port can be used for backup, Firmware upgrade, USB mouse control, or Import/Export settings.

Backup

1. Use a USB media device, such as USB flash memory stick or USB external HDD to backup recorded data. Before returning to backup menu, connect USB media.
2. Press the BACKUP button or right-click anywhere on the screen and select 'backup' to enter backup mode.
3. Enter the desired file name for the backup file.
4. Enter start and end time for the time period you want to backup.
5. Select which cameras you want to backup
6. If necessary, check the 'DVRMediaPlayer' box to include the backup player.
7. You can also setup a password to protect the backup file.
8. The system will display the current available storage and backup file size based on your settings.
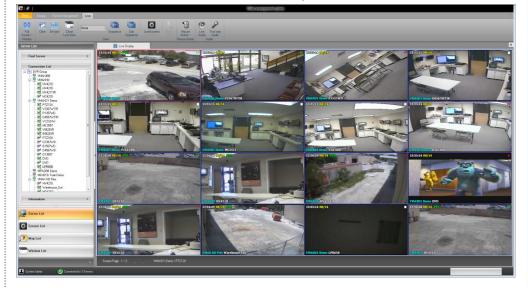9. Press start to begin the backup process, or close to exit without backing up.

```
PTZ
Backup          >    Backup
Playback        >    Clip Maker
Remote          >
```

```
Backup
Source :              ▼
Device : USB Storage  ▼
File Name : untitled
From : 2013-08-06    02:48:10 PM
To :   2013-08-06    02:48:10 PM
Camera :    1~16
          ☐ DVRMediaPlayer
          ☐ Password
Status : Ready (39.84 GB / 232.88 GB)   Update
          Start    Close
MENU                        2013-08-06 02:48:20 PM
```

Remote Client

The Pivot Pro CMS is a powerful remote monitoring client included free with your DVR.
To install the software, launch the installation file from the DVR's accessory CD. After installation, launch the software from your start menu.

To add a site:

1. Right-click on the Connection List Panel and select 'Add Device'.
2. Select 'Digital Watchdog' under Company.
3. Select 'VMAXHD Flex' from the Model drop-down options
4. Enter the DVR's name
5. Enter the DVR's URL or IP Address
6. If necessary, adjust the default port information
7. Enter the DVR's Username and Password
8. Press 'Add' to add the device to your device list.
9. Press 'Save and Close' to save the new sites.

To connect to a site:

1. Double-click on the site's name in the Connection List panel.
2. When the icon next to the DVR's name appears green, drag the DVR title into the viewing area.