

# **HRDPX DVR**

## **Performance Series Digital Recording and Transmission System**

### **User Guide**



**Revisions**

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<b>Issue</b>	<b>Date</b>	<b>Revisions</b>
A	06/09	Initial Release

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# Warnings and Safeguards

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## FCC STATEMENT

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**INFORMATION TO THE USER:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

USERS OF THE PRODUCT ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES CONCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNALS. HONEYWELL VIDEO SYSTEMS SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS PRODUCT IN VIOLATION OF CURRENT LAWS AND STATUTES.

## Important Safeguards

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1. **Read Owner's Manual** – After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.
2. **Power Sources** – This product should be operated only from the type of power source indicated on the label. If not sure of the type of power supply to your home or business, consult product dealer or local power company
3. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or Honeywell's instructions have been adhered to.
4. **Heat** – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
5. **Water and Moisture** – Do not use this product near water. Do not exceed the humidity specifications for the product as detailed in this manual
6. **Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
7. **Power Cord Protection** – Power-supply cords should not be routed so that they are likely to be walked on or pinched by items placed against them, paying particular attention to cords at plugs, receptacles, and the point where they exit the product.
8. **Overloading** – Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electrical shock.
9. **Lightning** – For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power line surges.
10. **Object and Liquid Entry Points** – Never insert foreign objects into the DVR, other than the media types approved by Honeywell, as they may touch dangerous voltage points or short-out parts that could result in a fire or electrical shock. Never spill liquid of any kind on the product.
11. **Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious personal injury and serious damage to the product.
12. **Disc Tray** – Keep fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.
13. **Burden** – Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.
14. **Disc** – Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.
15. **Fuses** - CAUTION: For continued protection against risk of fire, replace only with same type and rating of fuse.

16. **Replaceable Batteries** - CAUTION: Risk of Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries According to the Instructions
17. **Grounded Outlet** - This equipment shall be connected to a properly grounded outlet."
18. **Outlet Location** – This equipment must be installed within six feet of an easily accessible outlet.
19. **Damage Requiring Service** – Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
  - When the power-supply cord or plug is damaged.
  - If liquid has been spilled, or objects have fallen into the unit.
  - If the unit has been exposed to rain or water.
  - If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
  - If the unit has been dropped or the enclosure has been damaged.
  - When the unit exhibits a distinct change in performance - this indicates a need for service.
20. **Servicing** – Do not attempt to service this product. Opening or removing covers may expose the user to dangerous voltage or other hazards. Refer all servicing to qualified personnel.
21. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by Honeywell. Unauthorized substitutions may result in fire, electric shock or other hazards.
22. **Safety Check** – Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

## Notes on Handling

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Please retain the original shipping carton and/or packing materials supplied with this product. To ensure the integrity of this product when shipping or moving, repackage the unit as it was originally received from Honeywell.

Do not use volatile liquids, such as aerosol spray, near this product. Do not leave rubber or plastic objects in contact with this product for long periods of time. They will leave marks on the finish.

The top and rear panels of the unit may become warm after long periods of use. This is not a malfunction.

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## Notes on Locating

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Place the unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand.

If this unit is placed next to a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. If this happens, place the DVR away from the TV, radio, or VCR.

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## Notes on Cleaning

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Use a soft dry cloth for cleaning.

For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzene, as they may damage the surface of the DVR.

If using a chemical saturated cloth to clean the unit, follow that product's instructions.

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## Notes on Maintenance

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This DVR is designed to last for long periods of time. To keep the DVR always operational we recommend regular inspection maintenance (cleaning parts or replacement). For details contact the nearest dealer.

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## Notes on Moisture Condensation

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Moisture condensation could damage the DVR. Read the following information carefully.

Moisture condensation might occur under the following circumstances:

When this product is brought directly from a cool location to a warm location.

When this product is moved to a hot and humid location from a cool location.

When this product is moved to a cool and humid location from a warm location.

When this product is used in a room where the temperature fluctuates.

When this product is used near an air-conditioning unit vent

When this product is used in a humid place.

### **Do not use the DVR when moisture condensation may occur.**

If the DVR is used in such a situation, it may damage discs and internal parts. Remove any CD discs, connect the power cord of the DVR to the wall outlet, turn on the DVR, and leave it for two to three hours. After two to three hours, the DVR will warm up and evaporate any moisture. Keep the DVR connected to the wall outlet and moisture will seldom occur.

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## Safety Instructions – Rack Mount

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A) Elevated Operating Ambient – If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.

B) Reduced Air Flow – Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

C) Mechanical Loading – Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

D) Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

E) Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."

## WARNING

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TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.  
DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE.  
DO NOT OPEN THE CABINET.  
REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

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## CAUTION

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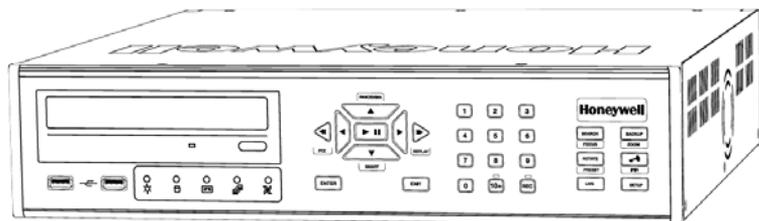
Notes

# Introduction

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## Product Description

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Honeywell's HRDPX Performance Series DVR is a powerful, yet affordable, video management solution designed for easy installation and operation. Preconfigured for continuous recording, with no additional setup required, the Performance Series DVR offers quick search, setup, and backup features.

The Honeywell Embedded DVR comes ready for fast and seamless integration within your existing IT infrastructure. The HRDP offers unparalleled stability, security, and ease of use in a 2U chassis. Accordingly, your security investment has never been easier to maintain. Multiple users may connect through digital networks such as LANs and WANs for simultaneous live viewing, and digital search. This powerful software enables users to view live video, perform searches, and operate PTZ cameras. It also provides system users and administrators with additional capabilities such as establishing recording schedules, and creating motion detection zones. With the latest advancements in the Performance Series DVR software, searching and indexing your video archive has never been easier.

## Features

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HRDPX is a Honeywell Performance Series DVR that includes the following features:

- 16 Composite Video Input Connectors
- Compatible with Color (NTSC or PAL) and B&W Video Sources
- Multiple Search Methods (Date/Time, Calendar, Event)
- Records up to 480 NTSC Images Per Second / 400 PAL Images Per Second
- Live Real Time Video Display (480 NTSC Images Per Second / 400 PAL Images Per Second)
- 16 Looping Video Outputs
- Auto Termination (75 Ohm) on Looping Outputs
- Continuous Recording with Disk Overwrite Mode
- Continuous Recording on Archiving, Transmitting to Remote, and Playback
- Motion Based Recording Uniquely Configurable for Each Channel
- Customizable Motion Detection Grids Uniquely Configurable for Each Channel
- Multiple Recording Modes (Manual / Schedule / Event)
- Audio (Mono) Recording and Playback
- 16 Built in Sensor Inputs (Normally Open or Normally Closed)
- 4 Built in Relay Outputs (Normally Open or Normally Closed)
- Remote Access via Ethernet and/or Modem
- PTZ Camera Control
- Internal DVD-RW supports CD-RW and DVD-RW media

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## USB Flash Drive Approved List

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These USB flash drives have been tested and approved to work with the Performance Series HRDP DVR. Other USB flash drives may also work with the HRDP DVR but have not yet been tested.

<b>Manufacturer</b>	<b>Model</b>
SanDisk	Cruzer
Talent	Flash
Corsair	Voyager
Lexar	JumpDrive
Kingston	Traveler

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## PTZ Compatibility List

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The Honeywell Performance Series DVRs support a wide selection of PTZ camera protocols:

Honeywell MAXPRO	HMC-250
Honeywell VCL	HSCP
Honeywell (GC-655P)	Inter-M (VRX-2101)
Honeywell (HSD-250)	Inter-M (VSD-640)
Honeywell (HSD-251)	LG (LPT-A100L)
American Dynamics	LG (LVC-A70x s)
OpenEye 500	LG SpeedDome
OpenEye 510	Merit Li-Lin
OpenEye – Pelco D	Merit Li-Lin V6
AcutVista	NVCC-Z42N
AlfaVision	NICE CAM
KalatelDome	NIKO
Cynix Speed Dome	Pelco-D
CoVi EVQ-1000	Pelco-P
CRR-1600I	PIH-7600
DMP23-H2	SAE
Dongyang	Samsung (SCC-C420X)
DRX-500	Samsung (DVR-502A)
DRX-502A	Samsung (MRX-1000)
DS120	Samsung (SCC-641)
DSC-230/240	Samsung (SPD-1600)
DY-255RXB	Sensormatic
DynaColor	Sungjin
ERNA Tech	Tamron
EyeView Dome	Toshiba
FastraxII	ViconSpeedDome
FilTech (DSC-230/PT-201)	Visiontech
Focvision	WONWOO
Ganz-PT	WSD-7425D

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## Quick Start Instructions

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1. Turn on the DVR. See the Turning on the DVR section for more details.
2. Log in -- Use the number buttons to enter the password when prompted – The password is <none> – Press ENTER.
3. Complete System Configuration to set up the date, time and system ID. See the System Configuration section for more details.
4. Complete Disk Configuration to set overwrite options and enable SMART Check. See the Disk Configuration section for more details.
5. Complete User Configuration to change the Admin password and add additional users. See the System > User Configuration section for more details.
6. Complete Camera Configuration for all attached cameras. See the Camera Configuration section for more detail.
7. Complete PTZ Configuration for any attached Pan / Tilt / Zoom cameras. See the PTZ Configuration section for more details.
8. Create a recording schedule. See the Record section for more details.
9. Complete Sensor Configuration to enable any external devices connected to sensor inputs or relay outputs. See the Record > Motion/Event Configuration section for more details.
10. Complete Motion/Event Configuration to trigger recording on an event: motion, sensor, video loss. See the Motion/Event Configuration section for more details.
11. The DVR is now configured to record, search and playback video. See the Operation section in this manual for more information on using the DVR.

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## Logging In for the First Time

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The default administrative log in information:

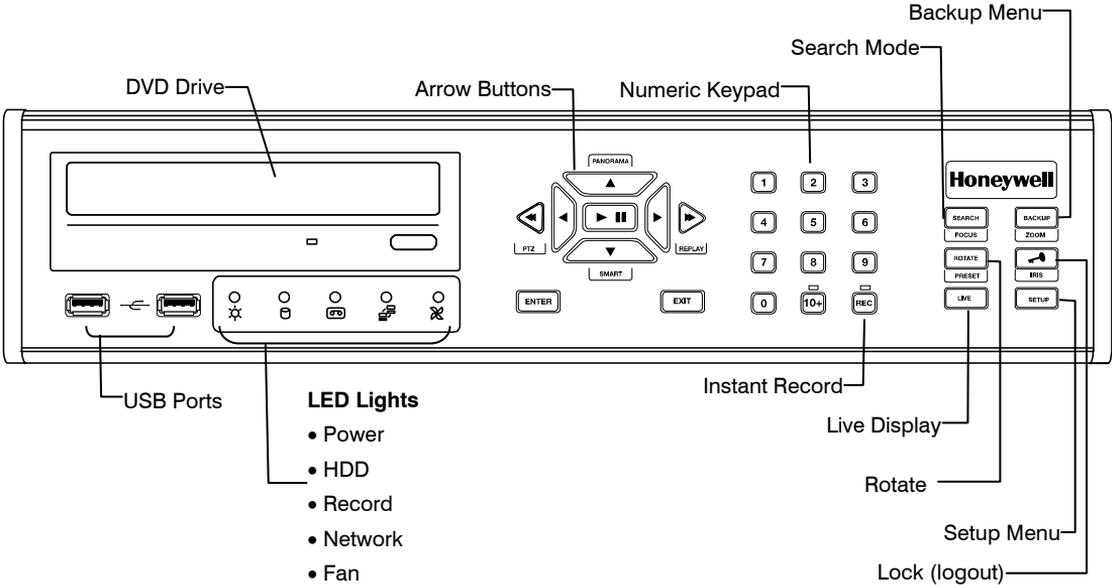
**ID:** admin  
**Password:** <none>

Introduction

Notes

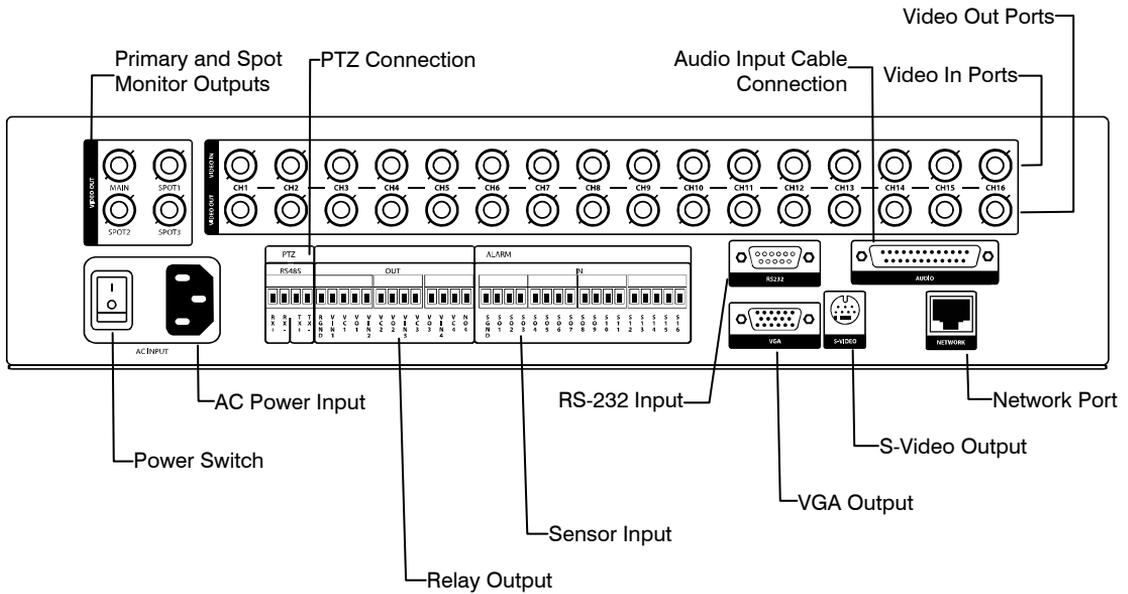
# Installation

## Front Panel Controls

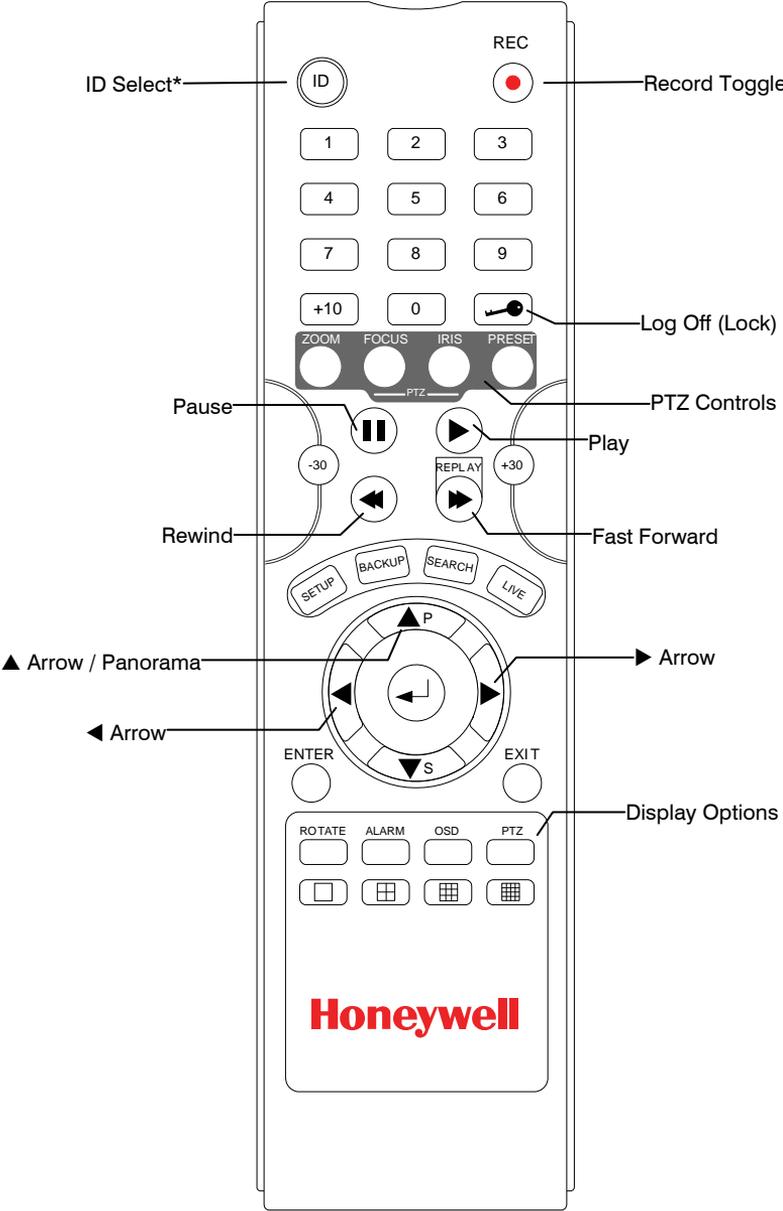


# Rear Panel Connectors

The rear panel of the DVR contains virtually all of the connectors you will be using. The diagram below shows the location and description of each connector:



# Remote Control



\*The ID Select button allows you to use one remote control for several DVRs.

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## Connection Guide

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### Connecting the Monitor

There are three available monitor outputs on the Performance Series DVR.

- Composite Monitor output for CCTV monitor – BNC (Marked MAIN)
- VGA output for VGA monitor – Mini-Sub D15
- S-Video output - Mini-Din 4

### Video Inputs and Looping Outputs

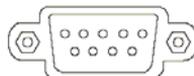
The HRDPX DVR comes with 16 BNC video inputs on the rear of its chassis. Each video input has a corresponding looping BNC output beneath it for passing the video signal to another monitoring/recording device.

### Connecting to a Network

Use the RJ45 jack or RS232 port, if using a serial modem, on the rear of the DVR when connecting to a network.



RJ45



RS232

### Connecting Audio

To record audio on the DVR connect the audio source to the connections on the included 16 CH Audio Adapter cable.

To listen to live or recorded audio connect the Audio Out Port (Black) on the adapter cable to an amplified speaker system.

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**Note** The DVR audio output is a line level source which requires an amplified speaker system. The audio input can be from an amplified source or directly from a microphone.

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## Connecting a PTZ Camera

The RS485 connector can be used to control Pan / Tilt / Zoom (PTZ) cameras. See the PTZ camera manufacturer's manual for configuring the RS485 connection.

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**Note** Use the RS485 connector for external control systems such as a control keyboard. Connect RX-/TX- and RX+/TX+ of the control system to the TX-/RX- and TX+/RX+ (respectively) of the DVR.

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## Connecting to a Sensor Input

To make connections on the Alarm Connector Strip: Remove the Alarm In block from the DVR for easy access. Use a small screw driver to open the connection and insert the wire into the hole. To disconnect the wire loosen the connection with the screw driver and pull the wire out.

### Alarm In

Use external devices to send a signal to the DVR when an event occurs. Mechanical or electrical switches can be wired to the Alarm In and Ground (GND) connectors.

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**Note** All connectors marked GND are common. Connect the ground side of the alarm input and/or alarm output to the GND connector.

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## Connecting to a Relay Output

To make connections on the Alarm Connector Strip: Remove the Alarm Out block from the DVR for easy access. Use a small screw driver to open the connection and insert the wire into the hole. To disconnect the wire loosen the connection with the screw driver and pull the wire out.

### Alarm Out

The DVR can activate external devices such as buzzers or lights. Connect the external device to the Alarm Out and Ground (GND) connectors. See Sensor Configuration in the manual for more details.

## Installing the Rackmount Kit

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**Caution** There must be a minimum 1U space between the DVR and any other items in the rack.

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1. Attach the rackmount brackets with the screws provided on each side of the DVR. Do not remove the plastic edge guards.
  2. Mount the DVR in your rack.
- 

## Turning on the DVR

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1. Connect the power cable.
  2. Connect camera cables.
  3. Connect a network cable and a monitor cable.
  4. Switch the power switch on the back of the DVR to the ON position and wait until the main screen is displayed on the connected monitor; this process will take approximately two minutes.
- 

**Tip** See the Connection Guide section for more details

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## Setting the Remote Controller ID

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When more than one HRDP Performance Series DVR is installed in the same location, you can use one remote controller to control multiple DVRs – up to 20 DVRs. To control multiple DVRs, you must change the remote controller ID to the DVR ID of the DVR.

To change the remote controller ID:

1. On the DVR, go to SYSTEM > SYSTEM CONFIGURATION.
  2. Enter the desired DVR ID number.
  3. On the remote controller, press and hold the ID button and enter the desired DVR ID number to operate the corresponding DVR.
- 

**Note** The DVR ID must be input as two numbers on the remote controller. Therefore you should input 00 for the system ID 0 and input 01 for 1.

---

# Setup

## Setup Menus

<b>Honeywell</b>	
SETUP MENU	
SYSTEM	NETWORK CONFIGURATION
CAMERA	SERIAL CONFIGURATION
RECORD	<b>CLIENT CONFIGURATION</b>
<b>NETWORK</b>	E-MAIL CONFIGURATION
INFORMATION	
SETUP WIZARD	

Use the setup menus to configure all of the DVR settings, schedule recording, networking and shutdown.

Press the SETUP key on the front of the DVR or remote control to enter the setup menus and log in. See the Logging In for the First Time section if entering setup for the first time. Use the ▲ and ▼ keys on the front of the DVR or remote control to navigate individual menus, and use the ◀ and ▶ keys to select a new setup menu.

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# System

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## System Configuration

SYSTEM CONFIGURATION		
VIDEO FORMAT	NTSC	AUTO ▼
LANGUAGE	ENGLISH	▼
DVR ID	0	
DATE FORMAT	MM-DD-YYYY	▼
DATE	06/06/2009	
TIME	10:44:48	
TIME ZONE	GMT-08:00..	
USE DST	OFF	
NTP	OFF	
KEYPAD BEEP	OFF	
AUTO LOG OFF	10 MIN	

To enter System Configuration, press the Setup key on the front of the DVR and press ENTER to select System Configuration. Use the arrow buttons on the front panel of the DVR or the remote control to navigate the display. Select Save and press ENTER to update settings.

**Video Format** - NTSC / PAL.

**Language** - ENGLISH / SPANISH / FRENCH / PORTUGUESE / GERMAN / DUTCH [User Selectable].

**System ID** - Required for the operation of multiple units using the supplied IR remote control. Each system must have a unique ID to function properly.

**Date Format** - US (MM-DD-YYYY) / EURO (DD-MM-YYYY) / ASIA (YYYY-MM-DD) – [User Selectable].

**Date** - Press ENTER to select the Date and use the number keys and/or arrow buttons to set the date. Press ENTER again to deselect.

**Time** - Press ENTER to select the Time and use the number keys and/or arrow buttons to set the time. Press ENTER again to deselect.

**Time Zone** - Press ENTER to open the Time Zone window. Use the arrow keys to navigate the list and press ENTER to make selection. Select Exit and press ENTER to close the window.

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**Note**    The date and time must be set manually; changing the time zone will not automatically change the Time/Date display.

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## System Configuration Continued

**Use DST** – After completing the Time Zone setup, highlight USE DST and press ENTER to turn Daylight Saving Time ON / OFF.

**NTP** – Highlight NTP (Network Time Protocol) and press ENTER to SYNC the DVR with the Network Time.

**Keypad Beep** - ON / OFF [Enables / Disables Audible keypad touch confirmation].

**Auto Log Off** – OFF or 1-10 Minutes [This feature will close the Configuration Menu after XX minutes of inactivity. This is a security feature.]

## Setup Wizard

The Setup Wizard allows you to define global recording settings for an easy and custom recording schedule on the DVR.

The screenshot shows a menu titled "SETUP WIZARD" with the following settings:

GLOBAL RESOLUTION	352 * 240	▼
MOTION/CONTINUOUS	CONTINUOUS	▼
AVERAGE DAYS TO RECORD	8.1 DAYS	
AVERAGE IPS	1 IPS	
AVERAGE PICTURE QUALITY	LOW	▼

At the bottom of the menu are two buttons: "SAVE" and "CANCEL".

**Global Resolution** – 352 x240 / 704 × 240 / 704 × 480.

**Motion/Continuous** – Motion / Continuous.

**Average Days to Record** – [The estimated days of recording determined by resolution, IPS (Images Per Second), Picture Quality, and available storage size.]

**Average IPS** – 1-8 [Maximum varies with resolution.]

**Average Picture Quality** – Low / Normal / High / Ultra.

## Disk Configuration

### Format

---

Shows installed Hard Disk Drives and the status of other attached storage devices.

TYPE	SIZE	STATUS	FORMAT
HDD	480GB	REC	FORMAT
HDD	N/A	N/A	<b>NONE</b>
HDD	N/A	N/A	<b>NONE</b>
CD-RW	-	-	ERASE

FORMAT ALL    USB FORMAT    USB RESET

FORMAT     OVERWRITE     CHECK     S.M.A.R.T.

SAVE    CANCEL

To format a Hard Drive use the arrow keys to select the appropriate device and press ENTER. Select OK to confirm formatting and press ENTER.

To format a USB device use the arrow keys to select USB FORMAT and press ENTER. Select the USB target and select FAT32. Press OK to format.

---

**Tip**      Refer to the list of Approved USB Flash Drives in the Introduction chapter.

---

To refresh the list of connected USB devices select USB RESET and press ENTER.

---

**Caution** All USB devices must be formatted as FAT32 before using with the DVR.

---

---

**Note**      Upon formatting a drive, all video and other data stored on that drive will be permanently erased and cannot be recovered.

---

## Overwrite

Sets options for overwriting data when the Hard Disk Drive becomes full.

OVERWRITE	
-WARNING CONDITION-	
HDD OVERWRITE	ENABLE
DISK-FULL WARNING	ON
REMAIN TIME	30 MIN
USED SPACE	90%
-WARNING METHOD-	
DISK-FULL ALARM	OFF
DISK-FULL BUZZER	OFF
DISK FULL MESSAGE	OFF
<input type="radio"/> FORMAT <input checked="" type="radio"/> OVERWRITE <input type="radio"/> CHECK <input type="radio"/> S.M.A.R.T.	
[ SAVE ]    [ CANCEL ]	

Enable HDD OVERWRITE to allow the DVR to write over previously recorded data, starting with the oldest date, when the HDD is full. If set to Off the DVR will not record any new data once the HDD becomes full. (Default)

Enable DISK FULL WARNING for notification when the HDD becomes full and HDD Overwrite is disabled.

## Check

Checks the HDD for errors or failure.

CHECK	
RECORDING START TIME	NO RECORDING DATA
RECORDING END TIME	NOT RECORDING
START CHECK	
AUTO DATA DELETION	OFF
<input type="radio"/> FORMAT <input type="radio"/> OVERWRITE <input checked="" type="radio"/> CHECK <input type="radio"/> S.M.A.R.T.	
[ SAVE ]    [ CANCEL ]	

## SMART Check

---

S.M.A.R.T. = Self Monitoring Analysis & Reporting Technology.  
Enable SMART Check to detect signs of HDD failure.

S.M.A.R.T.			
ENABLE S.M.A.R.T.	ON		
CHECK INTERVAL	1 HOUR		
TEMP. THRESHOLD	60	C	▼
S.M.A.R.T. WARNING	POPUP		▼

CHECK NOW  
HDD INFORMATION

FORMAT    OVERWRITE    CHECK    S.M.A.R.T.

SAVE   CANCEL

1. Set ENABLE S.M.A.R.T. to ON or OFF.
2. Set a CHECK INTERVAL between 1 and 24 hours.
3. Define a TEMP THRESHOLD and select Celsius or Fahrenheit.

---

**Note** The recommended upper optimum operating temperature for the HDD is between 104F to 122F (40C to 50C).

---

4. Select a WARNING to be activated when the HDD reaches the defined threshold.
5. Select SAVE and press ENTER to save settings.

---

**Tip** Select HDD INFORMATION and press ENTER to view the current HDD, DVD, and USB drive information.

---

## User Configuration

Use the User Configuration to Add or Delete users.

### Server

Use the Server menu to manage users that access the DVR locally.

USER CONFIGURATION					
AUTHORIZATION		ADMIN		EXPORT VIEWER	USE CD/DVD
1	admin	ADD/CHANGE	DEL	ON	ON
2	NONE	ADD/CHANGE	DEL	ON	ON
3	NONE	ADD/CHANGE	DEL	ON	ON
4	NONE	ADD/CHANGE	DEL	ON	ON
5	NONE	ADD/CHANGE	DEL	ON	ON
6	NONE	ADD/CHANGE	DEL	ON	ON

SERVER     CLIENT

**EXPORT VIEWER** – Allow the user to include a copy of the Backup Viewer application when a local backup is made. This is a Server side feature only.

**USE CD/DVD** - Allow the user to use the DVD Drive. This is a Server side feature only.

To add a new user:

1. Select the AUTHORIZATION level to display the names of the users in that level (ADMIN, SUPERUSER, USER) by selecting the user type at the top of the screen and pressing ENTER to cycle to the next level.

User	SuperUser	Admin
Live View	User Privileges	SuperUser Privileges
PTZ	Search	Setup
	Replay	
	Backup	

2. Select ADD/CHANGE on an unused row and press ENTER.
3. Use the on-screen keyboard to input the user name.
4. Select OK.
5. Set the user password using the onscreen keypad or the key buttons on the front panel or remote control. Repeat the password to confirm.
6. Repeat the above steps to set up more users at appropriate authorization levels.
7. Select SAVE and press ENTER to save settings.

## Client

Use the Client menu to manage users that access the DVR remotely. Remote users must be defined on this page. Only the users defined here can access the DVR remotely. Add up to 18 users in addition to the two Admin users.

USER CONFIGURATION			
	LOGIN	PASSWORD	AUTHORIZATION
ADMIN1	admin1	****	▶
ADMIN2	admin2	****	▶
USER1	user1	****	▶
USER2	user2	****	▶
USER3	user3	****	▶
USER4	user4	****	▶
USER5	user5	****	▶

PAGE1      PAGE2      PAGE3

SERVER       CLIENT

SAVE      CANCEL

To add a new user:

1. Select a new row and press ENTER to change the LOGIN name.
2. Use the on-screen keyboard to input the user name.
3. Set the user password using the onscreen keypad or the number buttons on the front panel or remote control. Repeat the password to confirm.
4. Set the authorizations for the user.

CLIENT - PERMISSION					
	REPLAY	BACKUP	HEALTH CHECK	LIVE VIEW	PTZ CONTROL
ADMIN1	ON	ON	ON	ON	ON
ADMIN2	ON	ON	ON	ON	ON
USER1	OFF	OFF	OFF	ON	OFF
USER2	OFF	OFF	OFF	ON	OFF
USER3	OFF	OFF	OFF	ON	OFF
USER4	OFF	OFF	OFF	ON	OFF
USER5	OFF	OFF	OFF	ON	OFF

PAGE1      PAGE2      PAGE3

SAVE      CANCEL

REPLAY - ON / OFF

LIVE VIEW – 1~16, ALL, OFF

BACKUP - ON / OFF

PTZ CONTROL – 1~16, ALL, OFF

HEALTH CHECK - ON / OFF

5. Repeat the above steps to set up additional users.
6. Select SAVE and press ENTER to save settings.

## Configuration

Import and Export current settings. See details in the Save Settings section.

## Shutdown

Use Shutdown to safely shutdown the system.

1. Select System > Shutdown.
2. Select OK to confirm and press ENTER to safely shutdown the system.
3. Turn the power off when shutdown is complete using the toggle switch on the back of the DVR.

---

**Note** Improper shut down of the system can cause data loss and system corruption.

---

## Camera

### Camera Configuration

#### CH –Camera Channels

**NAME** – Use the on-screen keyboard to enter a camera name [user defined]

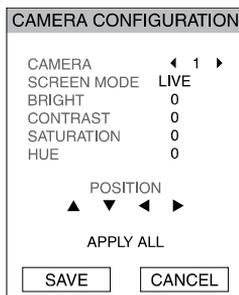
**ENABLE** – ON / OFF

**HIDDEN** (from Main Monitor) – Off / On

**ADJUST** –Detailed camera display settings

CAMERA CONFIGURATION				
CH ▲	NAME	ENABLE	HIDDEN	ADJUST
1	C1	ON	OFF	▶
2	C2	ON	OFF	▶
3	C3	ON	OFF	▶
4	C4	ON	OFF	▶
5	C5	ON	OFF	▶
6	C6	ON	OFF	▶
7	C7	ON	OFF	▶
8	C8	ON	OFF	▶

## Color Setup (Adjust)



**CAMERA** – 1 ~ 16 [camera to apply color settings to]

**SCREEN MODE** – Live / Record

**BRIGHT** - -25 ~ 25

**CONTRAST**- -25 ~ 25

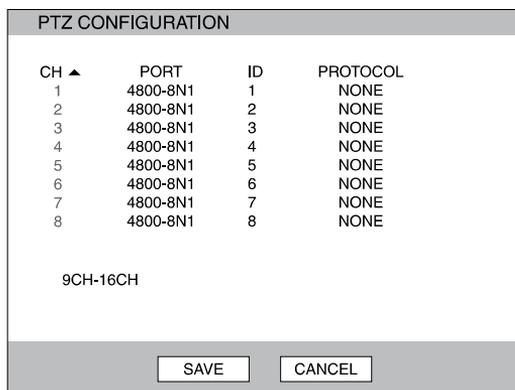
**SATURATION** - -25 ~ 25

**HUE** - -25 ~ 25

**POSITION** - ▲ ▼ ◀ ▶ [position of video from this camera on the screen]

**APPLY ALL** – Apply current color settings to all cameras

## PTZ Configuration



**CH** – Camera Channels

**PORT** –Sets the port information for the connected camera. [Consult the documentation provided by the camera manufacturer to obtain this information.]

**ID** – Sets the PTZ ID from 1-255

**PROTOCOL** –Select a PTZ protocol

## Spot / Sequence Configuration

SPOT/SEQUENCE CONFIGURATION																	
SPOT																	
NO.	SEQUENCE	POPUP	CAMERA	INTERVAL													
1	OFF	OFF	ON	2 SEC													
2	OFF	OFF	ON	2 SEC													
3	OFF	OFF	ON	2 SEC													
SEQUENCE																	
PAGE DWELL TIME			2 SEC														
CAMERA DWELL TIME			2 SEC														
CUSTOM SELECT																	
ALL	<input checked="" type="checkbox"/>																
	<input checked="" type="checkbox"/>																
SAVE		CANCEL															

### Spot

**SEQUENCE** - ON / OFF [Sequence through selected cameras].

**POPUP** -ON / OFF

**CAMERA** - 1~16 / ALL [Select cameras to include in sequence.]

**Interval** - 1 ~ 256 seconds [Set the sequence interval time].

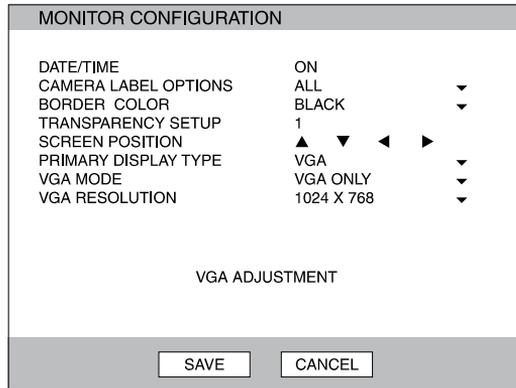
### Sequence

**PAGE DWELL TIME** - 0 ~ 99 seconds [Set the sequence interval time for full page].

**CAMERA DWELL TIME** - 0 ~ 99 seconds [Set the sequence interval time for individual cameras].

**CUSTOM SELECT** - 1 ~ 16 / All [Select cameras to display on the Spot Monitor].

## Monitor Configuration



**DATE/TIME** – ON / OFF [On-screen Date/Time display].

**CAMERA LABEL OPTIONS** – All / Number / Off.

**BORDER COLOR** - Black / White / Grey [Set the border color of the grid for the main channel display].

**TRANSPARENCY SETUP** – 1 ~ 20 [Set the transparency of the setup windows].

**SCREEN POSITION** – Adjust the screen position of the main channel display.

**PRIMARY DISPLAY TYPE** – VGA / Analog [Set the Display Monitor type].

**VGA MODE** – VGA + BNC OUT / VGA ONLY [Enable/Disable the BNC spot monitor].

**VGA RESOLUTION** – Set monitor resolution.

**VGA ADJUSTMENT** – Set brightness, contrast, saturation and position.

## Record

### Recording Configuration

Use Recording Configuration to configure the recording schedule and frame capture rate. In Schedule Setup, users can define the recording schedules:

- Day
- Night
- Weekend

### Frame

RECORD SETUP - FRAME							
DAY ▼							
CH ▲	SIZE	R-MODE	C-FPS	M-FPS	QUALITY	POST-A	
1	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
2	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
3	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
4	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
5	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
6	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
7	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
8	704X240	▼ [C]+[M]	▼ 1	4	HIGH ▼	5 SEC	
9CH-16CH							
INFORMATION							
(Used FPS) C: 128/128 M: 64/128							
C: CONTINUOUS, M: MOTION/EVENT							
<input checked="" type="radio"/> FRAME <input type="radio"/> SCHEDULE <input type="radio"/> AUDIO <input type="radio"/> INSTANT							
SAVE				CANCEL			

Configure the FPS for each schedule – Day / Night / Weekend.

**SIZE** – 352 × 240 / 704 × 240 / 704 × 480. [Resolution]

**R-MODE** - [C] / [M] / [C+M] / [N/A]. [Recording Mode - Default is C+M]

C: Continuous

M: Motion / Event

**C-FPS** – 1~30 [Continuous Recording FPS]

**M-FPS** – 1~30 [Motion Recording FPS]

**QUALITY** – Low / Normal / High

**POST-A** – 5~99 seconds [Post Alarm Recording]

## Schedule

---

RECORD SETUP - SCHEDULE		
NIGHT	FROM	TO
WEEKEND	00:00:00	00:00:00
	N/A	N/A
<p>NOTE: This DVR is set to record 24 hours a day / 7 days a week by default. To specify a different frame rate and/or resolution for nighttime or weekends, adjust the NIGHT and WEEKEND schedule options.</p>		
<input type="radio"/> FRAME <input checked="" type="radio"/> SCHEDULE <input type="radio"/> AUDIO <input type="radio"/> INSTANT		
SAVE		CANCEL

**NIGHT** – Set nighttime (**ex.** If 18:00 to 6:00 is defined as nighttime, 6:00 to 18:00 is defined as daytime).

**WEEKEND** –Define weekend.

## Audio

---

RECORD SETUP - AUDIO	
CH ▲	RECORD
AUDIO 1CH	ENABLE
AUDIO 2CH	DISABLE
AUDIO 3CH	ENABLE
AUDIO 4CH	ENABLE
AUDIO 5CH	ENABLE
AUDIO 6CH	ENABLE
AUDIO 7CH	ENABLE
AUDIO 8CH	ENABLE
9CH-16CH	
VOLUME	7
<input type="radio"/> FRAME <input type="radio"/> SCHEDULE <input checked="" type="radio"/> AUDIO <input type="radio"/> INSTANT	
SAVE    CANCEL	

Specify volume level and enable each audio channel for recording.

## Instant Recording

---

Configure the recording settings for Instant Recording to use when it is activated.

RECORD SETUP - INSTANT RECORDING

FPS 4  
QUALITY NORMAL  
SIZE 704 \* 240

FRAME  SCHEDULE  AUDIO  INSTANT

SAVE CANCEL

**FPS** – Set the FPS (recording rate per camera).

**QUALITY** –Set the picture quality (affects file size).

**SIZE** – Set the resolution of the video image.

## Using Instant Recording

To activate Instant Recording on the DVR:

1. Press the REC key on the front panel of the DVR or remote control.
2. Select OK to Force Continuous Recording.
3. Press ENTER. The screen will display the Instant Record message.

To cancel Instant Recording on the DVR:

1. Press the REC key on the front panel of the DVR or remote control.
2. Select OK Resume Scheduled Recording.
3. Press ENTER.

## Motion/Event Configuration

Motion / Event Configuration has four sections; Input, Sensor, Action, and Alarm Monitor. When an event comes in (Input) the DVR records the image according to its settings (Camera Configuration) and triggers an alarm (Action).

### Input

---

MOTION/EVENT SETUP - INPUT					
CH ▲	MOTION	SENS	AREA	SENSOR	V-LOSS
1	ON	NORMAL ▼	ON	OFF	OFF
2	ON	NORMAL ▼	ON	OFF	OFF
3	ON	NORMAL ▼	ON	OFF	OFF
4	ON	NORMAL ▼	ON	OFF	OFF
5	ON	NORMAL ▼	ON	OFF	OFF
6	ON	NORMAL ▼	ON	OFF	OFF
7	ON	NORMAL ▼	ON	OFF	OFF
8	ON	NORMAL ▼	ON	OFF	OFF
9CH-16CH					
<input checked="" type="radio"/> INPUT <input type="radio"/> SENSOR <input type="radio"/> ACTION <input type="radio"/> ALARM MONITOR					
		[ SAVE ]		[ CANCEL ]	

**CH** – ▲ Channels 1-8 / ▼ Channels 9-16

**MOTION** – ON / OFF [Specify whether to use motion input or not.]

**SENS (Sensitivity)** – Low / Normal / High / Highest

**AREA** – Define the motion detection area.

**SENSOR** – Associate a sensor with the camera channel.

**V-LOSS (Video Loss)** – Select a channel to report video loss on.

## Setting Up Motion Detection Recording

To record data only when motion is detected:

MOTION/EVENT SETUP - INPUT					
CH ▲	MOTION	SENS	AREA	SENSOR	V-LOSS
1	ON	NORMAL ▼	ON	OFF	OFF
2	ON	NORMAL ▼	ON	OFF	OFF
3	ON	NORMAL ▼	ON	OFF	OFF
4	ON	NORMAL ▼	ON	OFF	OFF
5	ON	NORMAL ▼	ON	OFF	OFF
6	ON	NORMAL ▼	ON	OFF	OFF
7	ON	NORMAL ▼	ON	OFF	OFF
8	ON	NORMAL ▼	ON	OFF	OFF

9CH-16CH

INPUT
  SENSOR
  ACTION
  ALARM MONITOR

1. Press SETUP on the front of the DVR or remote control.
2. Select Record > Motion/Event Configuration and set MOTION to ON.
3. Set SENS level. [Normal / High / Highest / Low].
4. Select AREA and press ENTER to set a motion area (global setting; each channel can be configured individually).
5. Use the mouse to select or clear squares on the grid or:
  - a. Press ENT to change the cursor from a Red Dot to a Blue Dot.
  - b. Use the red dot to select a square on the grid (selected areas highlighted green). Use the arrow keys to expand the selected area.
  - c. Press ENT again to change to a blue dot and move the cursor to a new area on the screen.
6. When finished selecting motion areas press ENTER on the front of the DVR or remote control to save changes.
7. Repeat as necessary for each channel.
8. When motion area setup is complete select SAVE to save settings and exit setup.

## Sensor

---

MOTION/EVENT SETUP - SENSOR

SENSOR		RELAY	
NO. ▲	TYPE	NO.	SIGNAL
1	NO	1	ON
2	NO	2	ON
3	NO	3	ON
4	NO	4	ON
5	NO		
6	NO		
7	NO		
8	NO		

9CH-16CH

INPUT    SENSOR    ACTION    ALARM MONITOR

SAVE   CANCEL

### *Sensor Setup*

1. Use the arrow buttons to select Sensor 1 and press ENTER to change to NO (Normally Open) or NC (Normally Closed).
2. Repeat for all sensors.
3. Select SAVE and press ENTER to save settings and exit Sensor Setup.

### *Relay Setup*

1. Use the arrow buttons to select Relay 1 and press ENTER to turn OFF or ON.
2. Repeat for all relays.
3. Select SAVE and press ENTER to save settings exit Sensor Setup.

## Action

MOTION/EVENT SETUP - ACTION				
CH ▲	RELAY	IMAGE	DISPLAY	PRESET
1	1 (1 / 2)	OFF	2 SEC	OFF
2	2 (1 / 2)	OFF	2 SEC	OFF
3	3 (1 / 2)	OFF	2 SEC	OFF
4	4 (1 / 2)	OFF	2 SEC	OFF
5	1 (1 / 2)	OFF	2 SEC	OFF
6	2 (1 / 2)	OFF	2 SEC	OFF
7	3 (1 / 2)	OFF	2 SEC	OFF
8	4 (1 / 2)	OFF	2 SEC	OFF
9CH-16CH				
✓ EVENT POPUP				
<input type="radio"/> INPUT <input type="radio"/> SENSOR <input checked="" type="radio"/> ACTION <input type="radio"/> ALARM MONITOR				
<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/>				

**CH** – ▲ Channels 1~8 / ▼ Channels 9~16

**Alarm** – OFF / 1~4 [Associate an alarm relay with a channel].

**Delay** – 0~100 Seconds [Delay time before relay activates].

**Duration** – 0~100 Seconds [Time that the relay is active].

**Preset** – 0~100 [Enable PTZ camera to move to a preset position when an event occurs. See PTZ Control for more information.]

**Event Popup** – ON / OFF [Displays channel associated with event].

## Alarm Monitor

Send event information to a remote client using the Alarm Monitor software.

MOTION/EVENT SETUP - ALARM MONITOR		
EA SERVER ENABLE		OFF
MOTION/SENSOR		MOTION + SENSOR
NO.	IP ADDRESS	PORT
0	0 . 0 . 0 . 0	2001
1	0 . 0 . 0 . 0	2001
2	0 . 0 . 0 . 0	2001
3	0 . 0 . 0 . 0	2001
4	0 . 0 . 0 . 0	2001
<input type="radio"/> INPUT <input type="radio"/> SENSOR <input type="radio"/> ACTION <input checked="" type="radio"/> ALARM MONITOR		
<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/>		

1. Select EA SERVER ENABLE and press ENTER to select ON.
2. Select the types of events to send to the Emergency Agent (MOTION, SENSOR, MOTION + SENSOR).
3. Enter the IP ADDRESS of the remote client.
4. Enter the PORT number.

---

# Network

---

## Network Configuration

Configure network settings.

NETWORK CONFIGURATION		
NETWORK CONFIGURATION		
<input checked="" type="checkbox"/> DHCP	IP ADDRESS : 10.10.10.10	
	SUBNET MASK : 255.255.255.255	
HOST NAME	GATEWAY : 10.10.10.10	
dvr	HOST : 10.10.10.10	
DDNS SETUP		
	DDNS SERVER	hwddns.com ▼
<input checked="" type="checkbox"/> ROUTER IP	HOST NAME	host
STATUS CHECK	USER	
UNCHECKED	PASSWORD	****

SAVE      CANCEL

**DHCP**      *Select* – System gets IP address from DHCP server.

*Clear* – User must manually define a static IP address. Contact the network administrator for this information.

**HOST NAME** – The DVR name.

**IP ADDRESS** – DHCP or Static. Contact your network administrator for this information.

**DDNS SERVER** – The current DDNS server.

**HOST NAME** – Hostname for the DDNS server account.

**USER** – Username for the DDNS server account.

**PASSWORD** – Password for the DDNS server account.

**ROUTER IP** - When selected, Router IP reports your network's external IP address to the DDNS service. This is important if your router is running NAT (Network Address Translation) services for your network.

If you are unsure of your network configuration Honeywell recommends this feature be set to ON.

**STATUS CHECK** – Select STATUS CHECK to confirm the DDNS settings.

If Check returns SUCCESS, the settings are correct and DDNS is configured. If Check returns FAIL, check to make sure the ID, PASSWORD and HOSTNAME are correct, and then try again.

# Serial Configuration

Configure connected serial devices.

The image shows a 'SERIAL CONFIGURATION' dialog box. It has a title bar with the text 'SERIAL CONFIGURATION'. Inside, there are two sections: 'RS232' and 'RS485'. The 'RS232' section contains three fields: 'TYPE' with a dropdown menu showing 'EXTERNAL CONTROLLER', 'MODEL' with the text 'NONE', and 'PORT' with the text '4800-8N1'. The 'RS485' section contains one field: 'TYPE' with a dropdown menu showing 'NONE'. At the bottom of the dialog box, there are two buttons: 'SAVE' and 'CANCEL'.

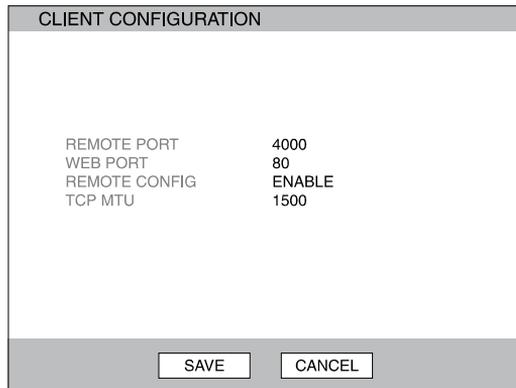
**TYPE** – None / External Controller

**MODEL** – Select appropriate model.

**PORT** – [Baud Rate / Data Bit / Parity / Stop Bit]

## Client Configuration

Configure general remote access.



A dialog box titled "CLIENT CONFIGURATION" with a light gray header and footer. The main area is white and contains four lines of text: "REMOTE PORT 4000", "WEB PORT 80", "REMOTE CONFIG ENABLE", and "TCP MTU 1500". At the bottom of the dialog, there are two buttons: "SAVE" and "CANCEL".

REMOTE PORT	4000
WEB PORT	80
REMOTE CONFIG	ENABLE
TCP MTU	1500

**REMOTE PORT** – Use this port number when configuring remote access software. The default port is 4000 but can be changed.

**WEB PORT** – Used for remote connections using a web browser. This port should be open on the router. Default web port is 80.

**REMOTE CONFIG** – Enable to allow an administrator to change configurations using remote access software.

**TCP MTU** – Set network bandwidth. If the network is low speed, set this value as the network (aka. Bandwidth Throttling).

## E-mail Configuration

The DVR can send an email notification to up to six defined e-mail addresses when an event happens.

**E-MAIL SERVER** – DVR/SMTP [Configure the DVR to use selected e-mail server.]

The screenshot shows the 'E-MAIL CONFIGURATION' menu. It contains a table with columns: E-MAIL SERVER, SCHEDULE, FROM, TO, NO., OPTION, CAM, RETRY, PIC., and E-MAIL ADDRESS. The 'OPTION' column for row 5 is circled, and a callout window titled 'OPTION : 5' is open, listing various event types with checkboxes: MOTION, SENSOR, VIDEO LOSS, POWER, SETUP, LOGIN FAIL, DISK FULL, LOG IN, and S.M.A.R.T. At the bottom of the main menu are 'SAVE' and 'CANCEL' buttons.

E-MAIL SERVER	SCHEDULE	FROM	TO		
	OFF	19:00:00	08:00:00		
NO.	OPTION	CAM	RETRY	PIC.	E-MAIL ADDRESS
1	SET	OFF	1	OFF	email@ddnsdvr.com
2	SET	OFF	1	OFF	email@ddnsdvr.com
3	SET	OFF	1	OFF	email@ddnsdvr.com
4	SET	OFF	1	OFF	email@ddnsdvr.com
5	SET	OFF	1	OFF	email@ddnsdvr.com
6	SET	OFF	1	OFF	email@ddnsdvr.com

**OPTION : 5**

- MOTION
- SENSOR
- VIDEO LOSS
- POWER
- SETUP
- LOGIN FAIL
- DISK FULL
- LOG IN
- S.M.A.R.T.

Buttons: SAVE, CANCEL, OK, CANCEL

**SCHEDULE** – ON / OFF [Enable to send e-mail notifications only for events that occur within a specified range of time.]

**FROM/TO** – Define the time of day to send e-mail notification of events (example: 19:00-6:00 – after business hours).

**OPTION** – Define the type of event that will trigger an e-mail notification.

**MOTION** – After a motion alarm is triggered.

**SENSOR** – After a sensor alarm is triggered.

**VIDEO LOSS** – After video loss on a camera

**POWER** – When the DVR is shutdown and restarted.

**SETUP** – When a user accesses Setup.

**LOGIN FAIL** – After one failed login attempt.

**DISK FULL** – When the HDD reaches the user-defined maximum disk full percentage. See DISK MANAGEMENT – OVERWRITE.

**LOG IN** – When a user logs in.

**SMART** – When the HDD reaches the user-defined maximum temperature. See DISK MANAGEMENT – SMART.

**PIC** – ON / OFF [Enable to send a picture of the event.]

**E-MAIL ADDRESS** – Enter the e-mail address.

---

# Information

---

## System Log View

Displays system log information.

SYSTEM LOG VIEW		
NO.	BEGIN DATE	SYSTEM LOG
317	07/17 12:00:21	Login Success(ID : root)
316	07/17 12:00:11	Logout
315	07/17 10:33:14	Login Success(ID : root)
314	07/17 10:32:45	Logout
313	07/17 10:22:41	Login Success(ID : root)
312	07/17 10:21:12	Logout
311	07/17 10:11:07	Login Success(ID : root)
310	07/17 10:11:01	Logout
309	07/17 10:01:00	Login Success(ID : root)

PREV    NEXT    LOG-EXPORT

## Version View

Displays system information and software version information for the DVR.

VERSION VIEW	
VIDEO FORMAT	NTSC
DVR PROGRAM	3.0.0.H63
PTZ MODULE	2.0
DRIVER MODULE	5.01-16.7
FIRMWARE	6.02.21
MAC ADDRESS	00:19:19:01:04:8D
VIDEO MUX	51005.0
VIDEO CODEC	60115.0
VIDEO I/O	40618.0

# Status View

Displays status screens for:

**STATUS**

DAY     NIGHT     WEEKEND

CAM	FPS	RESOLUTION	QUALITY	CAM	FPS	RESOLUTION	QUALITY
1	10/15	352 * 240	NORMAL	9	10/15	352 * 240	NORMAL
2	10/15	352 * 240	NORMAL	10	10/15	352 * 240	NORMAL
3	4/4	352 * 240	NORMAL	11	4/4	352 * 240	NORMAL
4	4/2	352 * 240	NORMAL	12	4/2	352 * 240	NORMAL
5	4/0	352 * 240	NORMAL	13	4/0	352 * 240	NORMAL
6	4/0	352 * 240	NORMAL	14	4/0	352 * 240	NORMAL
7	4/0	352 * 240	NORMAL	15	4/0	352 * 240	NORMAL
8	4/0	352 * 240	NORMAL	16	4/0	352 * 240	NORMAL

AUDIO    OFF

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

**STATUS**

CAM	INPUT	ACTION	CAM	INPUT	ACTION
1	M	A	9	M	A
2	M	A	10	M	A
3	M	A	11	M	A
4	M	A	12	M	A
5	M	A	13	M	A
6	M	A	14	M	A
7	M	A	15	M	A
8	M	A	16	M	A

EVENT INPUT  
M: MOTION    S: SENSOR    V: VIDEO LOSS

EVENT ACTION  
A: ALARM    I: IMAGE TO REMOTE    P: PTZ PRESET

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

## Record

**STATUS**

CONTENT	STATUS
HOST NAME	dvr
DHCP	ON
IP ADDRESS	10.10.10.10
SUBNET MASK	255.255.255.255
GATEWAY	10.10.10.10
CLIENT CONFIGURATION	4000 / 80

NO.	START	LOGIN	PACKET	IP ADDRESS
1				
2				
3				
4				

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

## Event

**STATUS**

NO.	SENSOR	ALARM	NO.	SENSOR	ALARM
1	N/O	ON	9	N/O	
2	N/O	ON	10	N/O	
3	N/O	ON	11	N/O	
4	N/O	ON	12	N/O	
5	N/O		13	N/O	
6	N/O		14	N/O	
7	N/O		15	N/O	
8	N/O		16	N/O	

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

## Network

**STATUS**

CONTENT	STATUS
RECORDING START	07/06/07 12:55:47
RECORDING END	07/11/06 13:05:00
DISK CAPACITY	449GB
USED SPACE	533MB (0%)
AVAILABLE SPACE	1480352.0 DAYS

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

## Sensor

**STATUS**

MODE	KEY	DESCRIPTION
LIVE	▲	TOP MENU SELECT
LIVE	▼	BOTTOM MENU SELECT
LIVE	◀◀	PTZ CONFIGURATION
LIVE	▶▶	PLAYBACK MODE
PTZ	◀◀	ZOOM IN/FOCUS NEAR/IRIS OPEN
PTZ	▶▶	ZOOM OUT/FOCUS FAR/IRIS CLOSE
PLAYBACK	BACKUP	CLIP BACKUP

RECORD     EVENT     NETWORK     SENSOR/ALARM     DISK     KEY

**EXIT**

## Disk

## Key

Setup

Notes

# Operation

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## Navigation

---

You can navigate the on screen menus of the HRDPX DVR using the front panel keys, the remote controller, or a USB mouse.

### Using a Mouse to Navigate

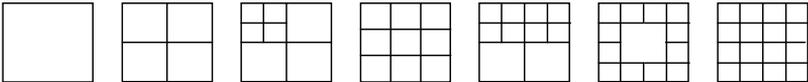
#### Quick Menu

Mouse up to the top of the screen to display the Quick Menu Bar.

SETUP	SEARCH	BACKUP	STATUS	EVENT	REC	LOGOUT
-------	--------	--------	--------	-------	-----	--------

#### Display Options

Mouse down to the bottom of the screen to display the Display Options



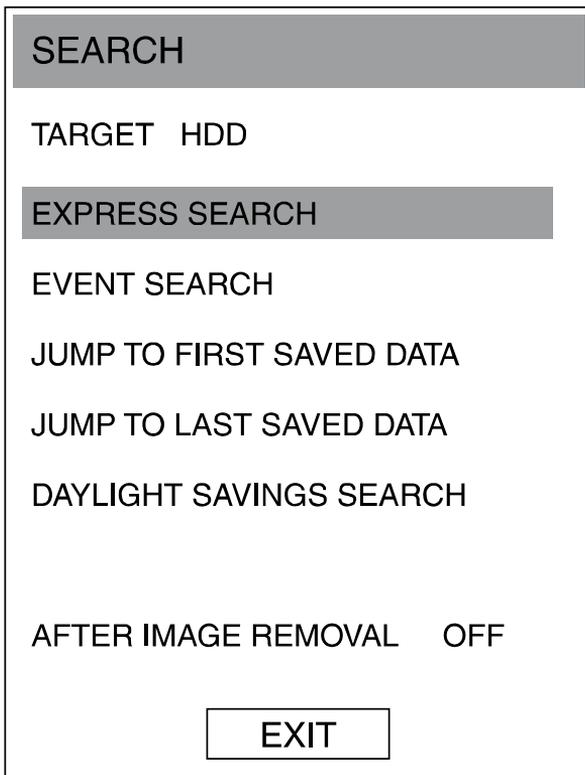
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## Search

---

### Searching Recorded Data

Search recorded video on the DVR to find a specific time or event.



1. Press the SEARCH key on the front of the DVR or the remote control to enter Search Mode.
2. Select TARGET media (HDD, DVD-RW, USB)
3. Select the desired search method.
4. Select EXIT to return to Live Mode.

## Search Methods

### Express Search

---

Users can select a specific date and time of recorded data to search.

EXPRESS SEARCH	
NO.	DATE
13	2007 / 7 / 17
12	2007 / 7 / 16
11	2007 / 7 / 15
10	2007 / 7 / 14
9	2007 / 7 / 13
8	2007 / 7 / 12
7	2007 / 7 / 11
6	2007 / 7 / 10
5	2007 / 7 / 09
4	2007 / 7 / 08

PREV NEXT

1. Select EXPRESS SEARCH.
2. Select a DATE from the list and press ENTER.
3. Define time by using the arrow buttons to move the bar across the grid (Highlighted time blocks represent recorded data). Press ENTER to go from the desired hour to the minutes selection.
4. Select PLAY.
5. Use the play controls on the front of the DVR or remote control to search video.

### Event Search

---

Define a search based on event recorded data.

1. Select EVENT SEARCH.
2. Define the date and time to search.
3. Define the type of event occurrences to include in search.
4. Define cameras to include in search or select ALL cameras.

### Go To First

---

View the earliest recorded data.

## Go To Last

---

View the most recent recorded data.

## Go To Jump

---

View video from a 24 hour period.

---

**Note** When DVD-RW is selected as the target media, only Express Search, Go To First Recorded Data and Go To Last Recorded Data Search options are available.

---

## Daylight Savings Search

---

Daylight Savings Search is used to find recorded data after switching the time at the end of Daylight Savings Period. The System will record data with the same time stamp for two hours when they are repeated. If any overlapped time data exists the system will display the times on this page.

## After Image Removal

---

The DVR is capable of recording video using one of three different resolutions. When using the 720 x 480 resolution, two fields are mixed. Because of the timing gap between the two fields, according to the standardized image rules, after image might occur to high speed moving images. The OpenEye DVR allows the user to remove this by selecting After Image.

## Panorama Search

---

Panorama Search will start searching video from the current frame and play four consecutive frames from the same channel.

Select a channel and press PANORAMA on the front panel or the remote control to use Panorama Search. Press Pause to freeze the display at the desired frame.

## Smart Search

---

Smart Search will search video quickly, from the current frame, and play video forward or backward at 60x normal speed (1 minute=1 second).

Select a channel and press SMART on the front panel or the remote control to use Smart Search. Press Pause to freeze the display at the desired frame.

## Search Details

In Search Mode users can access the Popup Menu for extended options; see the Popup Menu section.

## Search Popup Menu

Use to access display options in Search Mode.

1. Press ENTER to highlight a channel box.
2. Use the arrow keys to select the desired channel.
3. Press ENTER again to open the Popup Menu.

**TIME SELECTION** – Change the Date/Time to search.

**LIVE CAM CHANGE** – Change the channel box to display the selected live channel.

**PLAY CAM CHANGE** – Change the channel box to display the selected playback channel.

**FULL SCREEN** – Display the selected channel full screen.

**FREEZE** – Pause the current channel.

### CHANNEL 1 MENU

TIME SELECTION  
LIVE CAM CHANGE  
PLAY CAM CHANGE  
FULL SCREEN  
FREEZE  
CLIP BACKUP  
PANORAMA  
AUDIO ON  
SAVE JPEG

**CLIP BACKUP** – Export a small segment of video.

**PANORAMA** – Start Panorama Search.

**AUDIO ON** – ON/OFF.

**SAVE JPEG** – Save a JPEG still image of the current frame.

---

**Note** SAVE JPEG is only available when a single camera is selected. To activate, select a single channel (full screen), pause playback, and press ENT twice to open the popup menu.

---

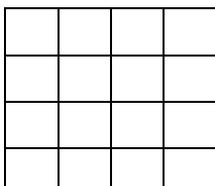
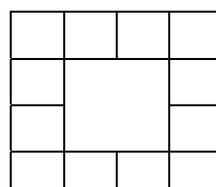
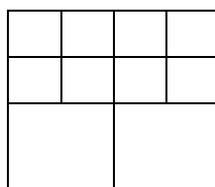
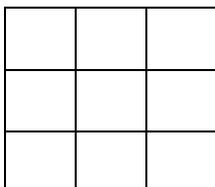
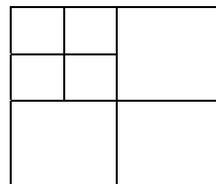
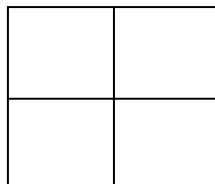
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# Monitoring

---

## Select Channel

- Use the number keys on the front of the DVR or remote control to select specific channels for full screen display.  
(**ex.** Press 1 to display channel 1)
- Press the LIVE key to change the display mode. Display switches in the following order when the LIVE key is pressed successively.



- Press the ROTATE key to rotate through to the remaining channels within the display mode or rotate the display configuration.

## Live Popup Menu

Use to access display options in Live Mode.

1. Press ENTER to highlight a channel box.
2. Use the arrow keys to select the desired channel.
3. Press ENTER again to open the Popup Menu.

**CAMERA CHANGE** – Change the position of the channels as displayed on-screen.

**RECORD CHANGE** – Change the recording settings for that channel including PPS, quality, resolution and event response.

**FREEZE** – Pause the current channel.

**FREEZE ALL** – Pause all channels displayed on-screen.

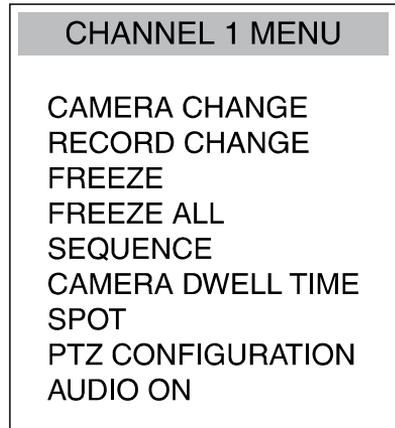
**SEQUENCE** – Change camera sequence.

**CAMERA DWELL TIME** – Set the dwell time for cameras during a camera sequence.

**SPOT** – Configure up to 3 additional spot monitors.

**PTZ CONFIGURATION** – Change PTZ settings.

**AUDIO ON** – ON/OFF.



---

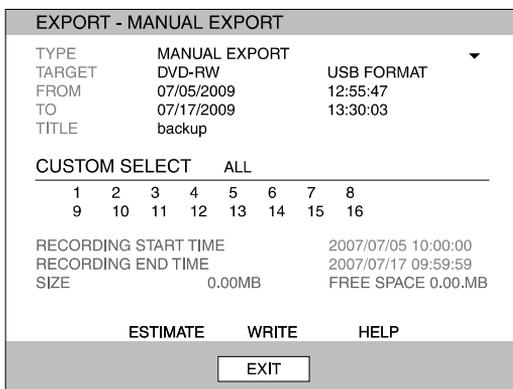
## Backup (Export)

---

### Manual Export

Back up recorded data on a CD-RW, DVD-RW or connected USB device.

**Tip** Refer to the USB Flash Drive Approved List in the Introduction chapter.



1. Press the BACKUP key on the front panel or remote control and log in.
2. Insert media.
3. Select TARGET media.

---

**Caution** If you are using a new USB device to back up your data, you must format it first as FAT32.

4. Set FROM and TO date and time.
5. Select CHANNELS to include in backup.
6. Select ESTIMATE to display estimated data size and free space available.

---

**Note** ESTIMATE must be selected first, before WRITE. If any backup parameters are changed (Date, Time, Channels) you must select ESTIMATE again.

7. Select WRITE to start backup.

---

**Caution** Do not shutdown the system during the backup process.

---

## Auto Backup

Create a mirrored backup of recorded data on a connected USB external hard drive.

**Caution** Honeywell recommends the use of hard drives only; the use of flash drives is not recommended for auto backup.

EXPORT - AUTO USB EXPORT							
TYPE	AUTO USB EXPORT						
TARGET	NONE	NONE					
OPTION	OVERWRITE OFF						
TITLE	backup						
CUSTOM SELECT ALL							
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
STATUS				NOT RUNNING...			
START				STOP			
EXIT							

1. Press Backup on the front panel or remote control and log in.
2. Select TYPE and press ENTER to select AUTO USB EXPORT.
3. Connect a USB drive to the DVR.
4. Select USB TARGET.
5. Set OVERWRITE ON if you want to write over previous data on the USB device.
6. Enter a TITLE for the backup file.
7. Select CHANNELS to include in backup.
8. Select START to start backup.

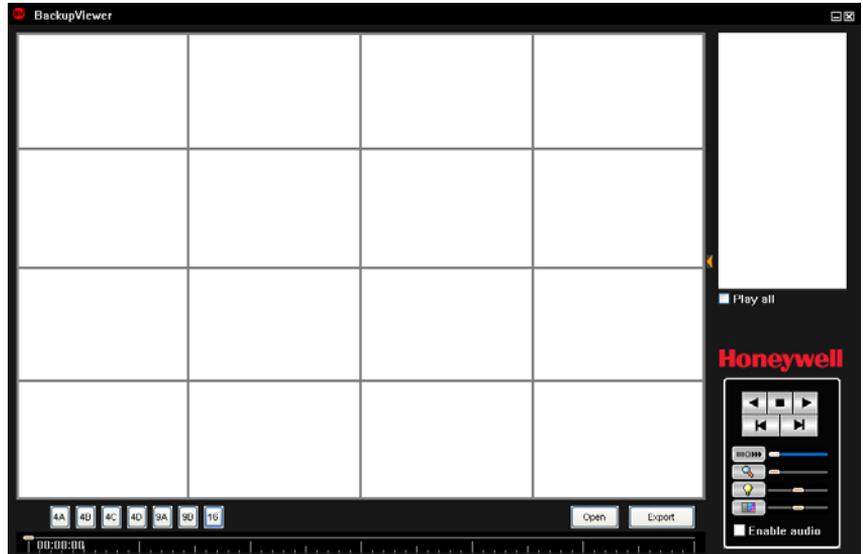
**Caution** Do not shutdown the system during the backup process.

---

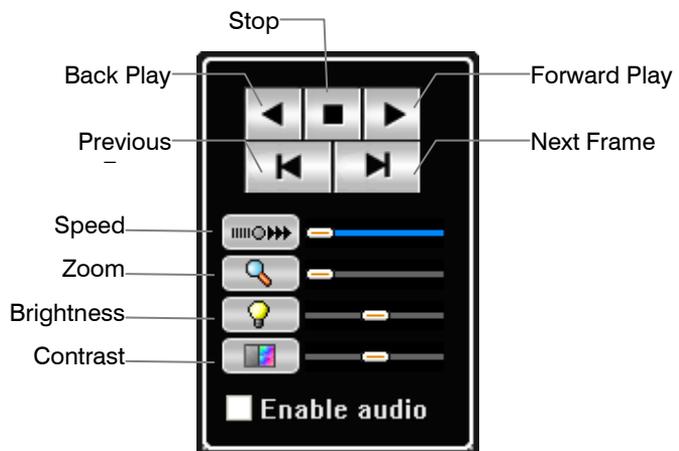
## Using the Backup Viewer

---

Play recorded video on a PC using Backup Viewer, the proprietary media player included with every backup file.



## Controlling Backup Viewer



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## Play Back Backup Image

---

Play recorded video on a PC using the proprietary media player included with every backup file.

1. Insert CD, DVD or connect external USB device to the PC.
2. Navigate to the files on the CD, DVD, or USB drive.
3. Double-click the DvrPlayer application.
4. Click the Open Video File icon and select the file to view from the desired date folder.

## Screen Division Buttons

The Screen Division buttons allows you to view cameras in groups such as two by two, three by three and four by four. The button options are shown below.



**1st Four Cameras View** – Displays cameras 1-4 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.



**2nd Four Cameras View** – Displays cameras 5-8 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.



**3rd Four Cameras View** – Displays cameras 9-12 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.



**4th Four Cameras View** – Displays cameras 13-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.



**1st Nine Cameras View** – Displays cameras 1-9 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.



**2nd Nine Cameras View** – Displays cameras 8-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**16 Camera View** – Displays cameras 1-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division button.

## Upgrade Firmware at the DVR

---

Obtain the latest software release and save the file to a CD, DVD or USB Device. Please check the product web site at [www.honeywellvideo.com](http://www.honeywellvideo.com) or contact Technical Support for the latest software. See back cover for contact information.

1. Insert a CD/DVD or USB Drive containing the update files.
2. Select System > Shutdown and select Restart.
3. Select OK to confirm Restart. The DVR will restart and automatically find the update files.
4. Select Start when the upgrade window appears.
5. Remove the upgrade media and select OK when the Upgrade Success window appears.
6. Restart the DVR.



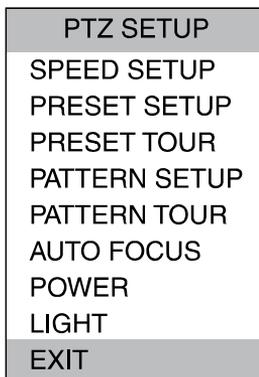
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## PTZ Camera Control

---

To control a PTZ camera:

1. Press the PTZ key to enter PTZ Mode.
2. Press SETUP to open the PTZ SETUP screen.



**SPEED SETUP** – 1-8 [Set the speed that PTZ cameras move.]

**PRESET SETUP** – Move/Set [Create preset PTZ camera positions.]

**PRESET TOUR** – [Create a tour of preset PTZ camera positions.]

**PATTERN SETUP** – [Create a custom PTZ Pattern]

**PATTERN TOUR** – [Create a Pattern (mimic) tour]

**AUTO FOCUS** – [Modify Auto Focus settings]

**POWER** – ON / OFF

**LIGHT** – ON / OFF

## Create PTZ Preset Position

1. Set up a PTZ camera in CAMERA > PTZ CONFIGURATION.
2. Press the EXIT key to exit Setup.
3. Press the PTZ key to enter PTZ Mode.
4. Select a PTZ enabled camera.
5. Press the SETUP key to display the PTZ setup menu.
6. Select PRESET SETUP.
7. Select MOVE to move the camera to the preset position.
8. Select a PTZ Preset ID number and select OK to save.

# Remote Software

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## Set up a Remote Connection

---

The administrator and up to eighteen additional users (four simultaneously) can access the DVR remotely using software installed on a personal computer.

## Configuring the DVR

1. Press the SETUP key on the front of the DVR or remote control to log in.
2. Select NETWORK > CLIENT CONFIGURATION (See the Client Configuration section of this manual for more details).
3. Change port settings or write down current port settings.
4. Select SAVE to save current settings.
5. Select NETWORK CONFIGURATION (see the Network Configuration section of this manual for more details).
6. Select or clear DHCP depending on your network (Ask your network administrator for assistance).
7. If DHCP is cleared - define the IP address and additional network information.
8. If DHCP is selected - write down the IP address supplied by the DVR system.

---

**Note** If the DVR does not display the IP Address after setting DHCP to ON, Select Save to change the network and open Network Configuration again.

---

9. Select SAVE to save current settings.

## Configuring the DVR Continued

10. Go to SYSTEM > USER CONFIGURATION> CLIENT to add remote users.

---

**Note** Only users defined in System > User Configuration > Client will be able to access the system remotely.

---

11. Select SAVE to save current settings.

## Creating a DVR Connection with Remote Software

1. Install the Remote Software on a PC using the disc provided with your DVR.
2. Open the Remote Software. The Local Setup window will open automatically.
3. Click New.
4. Select HRDP Performance Series as the Site Type.
5. Enter a name for the system in the Site Name box.
6. Enter the IP address of the DVR - found in Network > Network Configuration on the DVR.
7. Enter the Port number found in Network Client Configuration on the DVR system (default is 4000).
8. Click OK.
9. Enter the user name and password of an authorized remote user as defined in System > User Configuration > Client on the DVR.

---

**Note** User Name and Password are both case sensitive.

---

10. Click Connect.

## Default Remote Software Log in Information

---

The default administrative log in information for the remote software:

**User Name:** admin1

**Password:** <none>

---

## Access Remote Connection

---

1. Open the Remote Software.
2. Click on the icon of the server as defined previously.
3. Enter the user name and password of an authorized remote user as defined in the System > User Configuration > Client menu on the DVR.

---

**Note** User Name and Password are both case sensitive.

---

4. Click Connect.

## Connecting Multiple DVRs

Connect up to 4 Performance Series DVRs to the Remote Software to easily switch between DVRs.

1. Configure all DVR connections as described above in Configuring a Remote PC.
2. After connecting to the first DVR, click CONNECT on the Display screen to open the Local Setup window.
3. Select a second pre-configured DVR and click Connect.
4. Use the drop-down menu in the lower left corner of the display screen to switch between the connected DVRs.

## Using the Remote Software

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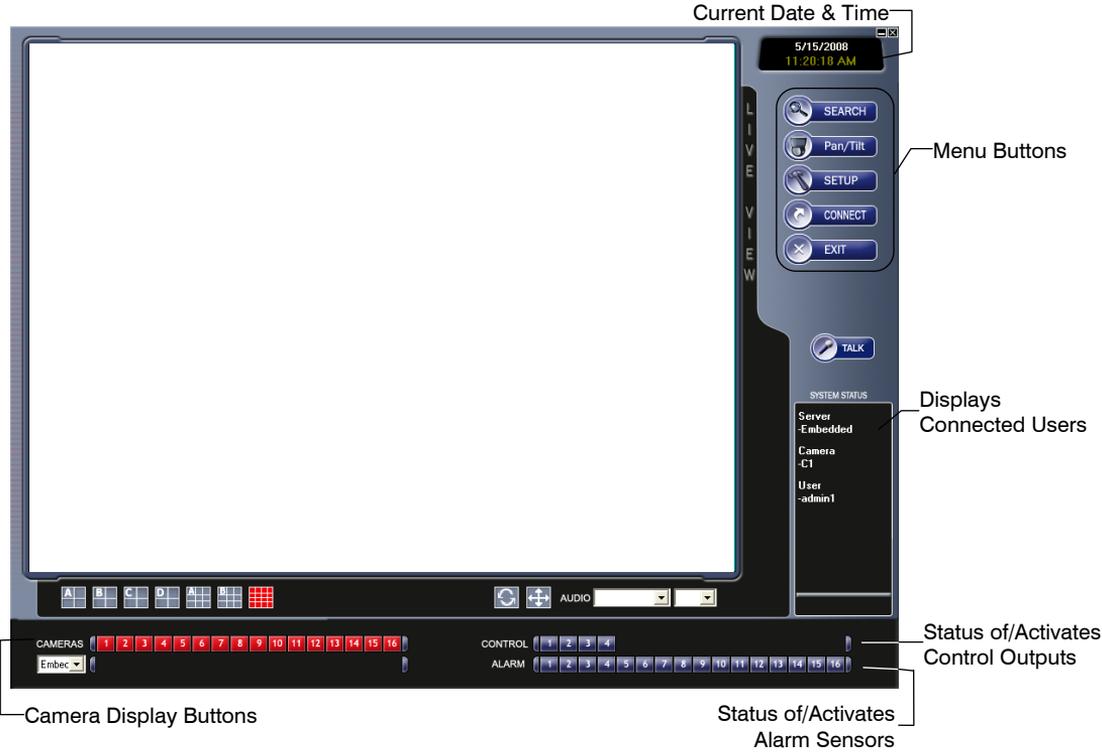
### Setting the Time and Date

The Remote Software uses the system time of the PC. If the system time is not correct, follow the steps below to change it.

1. Exit to Windows by clicking the Exit button on the Live View screen and selecting Restart in Windows Mode.
2. Open Windows Explorer. Do this by right-clicking the My Computer Icon (located on the top left hand corner of the Desktop) and select Explore.
3. Click Control Panel to open it. If you do not see Control Panel listed, click My Computer to expand the folder tree.
4. Double-click Date and Time inside Control Panel.
5. Adjust the Date and Time.
6. When finished, close all open windows and restart the PC. Do this by clicking Start (located on the lower left hand side of the Desktop) and selecting Shut Down.

# Live View Screen

Each time the software is restarted, the program defaults to the Live View screen. The following diagram outlines the buttons and features used on the Live View screen. It is important to be familiar with these options as this is the screen displayed the majority of the time.



## Camera View

The Camera status for each camera is displayed on the upper right corner of the video display area.



### Recording Status Indicator

The following are the different states for each camera:

-  **Recording**      Displayed when the camera is currently being recorded to the DVR.
-  **Motion Detection**      Displayed when a camera (set up for motion detection) detects motion.
-  **Display**      Displayed when the video from the camera is currently not being recorded to the DVR.

## Screen Division Buttons

---

The Screen Division buttons allow you to view cameras in groups such as two by two, three by three and four by four. The button options are shown below.



**1st Four Cameras View** – Displays cameras 1-4 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**2nd Four Cameras View** – Displays cameras 5-8 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**3rd Four Cameras View** – Displays cameras 9-12 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**4th Four Cameras View** – Displays cameras 13-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**16 Camera View** – Displays cameras 1-16 in the Video Display Area. To return to a different Multi-Camera View, select a different Screen Division option from the Screen Division Menu.



**Full Screen** – The Full Screen Option allows you to view the Video Display Area using the entire viewable area on the monitor. When this is selected, no menu options are visible. You can activate the Full Screen Option by clicking Full Screen within the Screen Division Menu. You can deactivate Full Screen mode by right-clicking on the screen.



**Auto Sequence** – Sequences through the Screen Divisions sets. For example, selecting the 1A and then the Loop button will sequence through 1A, 2A, 3A, 4A and then repeat.

## Setup Overview

### Setup Screen Overview

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This is an expandable list with multiple levels. Click the + box next to HRDP Performance Series Setup to expand the menu tree and access the Camera, Record, Sensor Setup and System Setup details. Many of the setup options are the same in the remote software and in the DVR system. Click Apply after changing any settings.

### Camera Setup

---

#### Camera Setup

The Camera Setup display allows the user to define camera names, power on and off cameras and define specific cameras as hidden.

**Title** - Enter camera name - up to seven characters.

**Enable** - ON / OFF [Enable individual cameras.]

**Hidden** -ON / OFF - On will hide the camera from logged out users.

#### PanTilt Setup

The PanTilt (PTZ) Setup display allows the user to define the appropriate protocol for connected cameras with PTZ capabilities. Since setup varies between different PTZ cameras, refer to the instructions supplied by the camera's manufacturer to complete setup.

**ID** - 1 ~ 255 [Set the PTZ ID]

**PROTOCOL** -Select a PTZ protocol

#### Sequence Setup

The Sequence Setup display allows the user to set the parameters for:

**Page Dwell Time** - 1 ~ 100 seconds [Set the sequence interval time for full screen on Main Display]

**Camera Dwell Time** - 1 ~ 100 seconds [Set the sequence interval time for individual cameras on Main Display]

**Channel** - 1 ~ 16 / All [Select cameras to display in Main Display]

## SPOT Setup

The SPOT Setup display allows the user to define the sequence display for individual Spot Monitors. This allows users to use different Spot Monitors to display only the video necessary for the person watching the Spot Monitor.

**Sequence** - ON / OFF [sequences through selected cameras]

**Interval** – 1 ~ 60 seconds [Set the sequence interval time].

**Channel** - Select cameras to include in sequence.

## Record Setup

---

### Time Setup

**Day/Night/Weekend** – Adjust the FPS and picture quality for each schedule individually.

**[C] FPS** – 0 ~25 [Define a global FPS setting for continuous recording or set individually for each channel.]

**[M] FPS** – 0 ~25 [Define a global FPS setting for motion/event recording or set individually for each channel.]

**Record Mode** – Continuous / Motion Event / C/M/E[ALL] /N/A

**Quality** – Low / Normal / High / Ultra [Define a global quality setting or set individually for each channel.]

**Post Recording** – 0 99 seconds [Recording time after event.]

**Continuous Frame** –Displays the actual FPS / maximum FPS for continuous recording

**Event Frame** – Displays the actual FPS / maximum FPS for event recording.

### Schedule Setup

**Night** – Set night time (ex. If 18:00 to 6:00 is defined as night time, 6:00 to 18:00 is defined as day time)

**Weekend** –Define weekend days

## Audio Setup

Specify volume level and audio settings for recording according to preset schedules and live or playback mode.

**Audio Day** - Enable/Disable

**Audio Night** - Enable/Disable

**Audio Weekend** - Enable/Disable

**Audio Live** - Enable/Disable

**Audio Playback** - Enable/Disable

**Volume** – 0 ~14

## Motion / Event Input

Motion / Event Setup allows you to enable recording or relay response on Motion, Sensor Event, and Video Loss

### *Motion*

**Enable**– ON / OFF [Enable Event Input]

**Sensitivity** – 1~5 [Define Motion sensitivity level. 1=least sensitive]

**Area** – Red=selected, White=clear. Click to select/clear boxes.[Create or clear the motion area on the camera]

### *Sensor*

**Sensor** – ON / OFF [Enable recording on sensor event.]

**Sensor Detail** – All / 1~16 / All Channel [Associate sensors with channels. Select the All check box to associate all sensors used to activate recording for that channel; Select the All Channel check box to associate the selected sensors with all channels.]

### *Video Loss*

**VideoLoss** – ON / OFF [Enable event on video loss.]

**Video Loss Detail** - All / 1~16 / All Channel [Associate video loss “V” alert with specific viewed channels. Select the All check box to prompt all channels with video loss to provide a “V” alert to the viewed channel; Select the All Channel check box to associate the selected channels to report a “V” alert when video loss occurs.]

## HDD Setup

**Disk Overwrite** – Enable / Disable [Select the check box to enable the DVR to write over old data when the hard drive is full.]

**Disk Full Warning** – Enable/Disable [Enable Disk Full Warning for notification when the HDD becomes full and HDD Overwrite is disabled.]

**Remain Time** – 0~60 [Define the amount of remaining recording time to trigger the Disk Full Warning.]

**Used Space** – 80~99 [Define the percentage HDD used that triggers the Disk Full Warning.]

**Disk Full Alarm** – 0~8 [Define the relay that will trigger when the HDD is full.]

**Disk Full Buzzer** – Enable/Disable [Enable a continuous buzzer to sound for Disk Full Warning.]

**Disk Full Message** – Enable/Disable [Enable a popup message to display for Disk Full Warning.]

## Sensor Setup

---

### Sensor

**Sensor** – N/O / N/C [Set sensors to Normally Open or Normally Closed]

**Alarm Out** – Off / On [Set Relay switches to Off or On]

---

**Note** For more information, see the  
Record > Motion/Event Configuration > Sensor section.

---

## System Setup

---

### User Management

**ID** – Type a new user name. (Available for user1 through user18.)

**Password** – Type a password for each user.

*Permissions* - Enable / Disable

**Live**

**Backup**

**PTZ**

**Health**

**Playback**

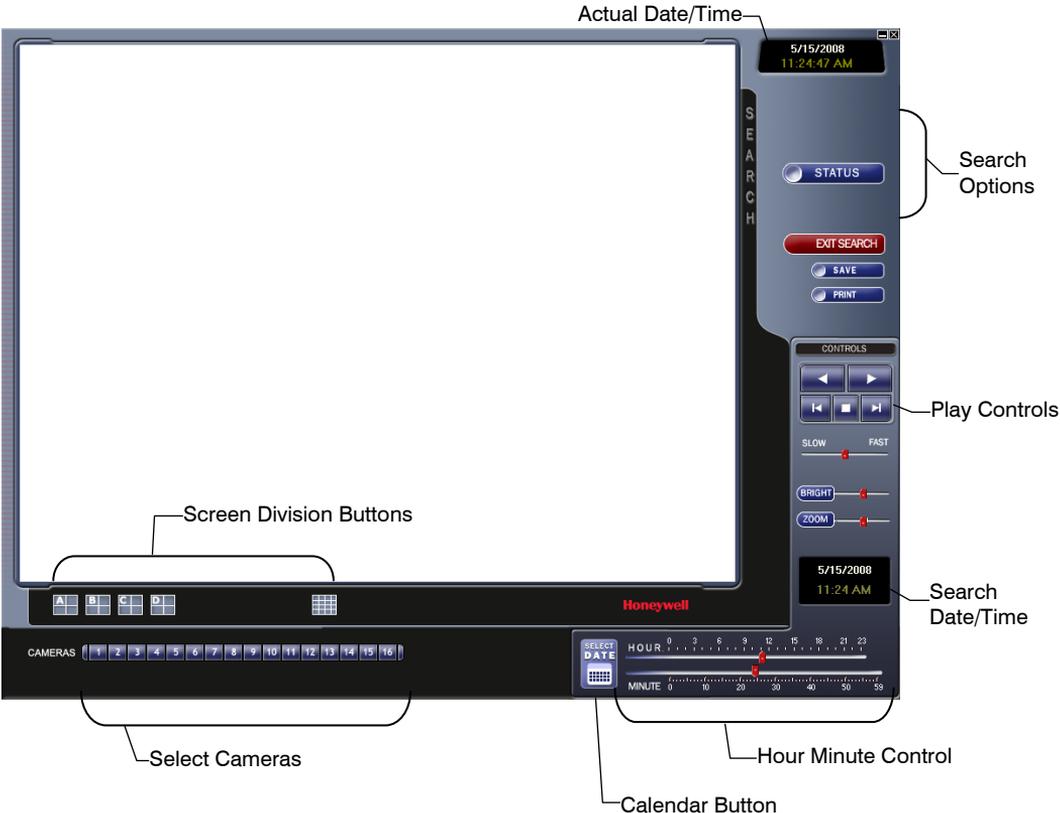
**Live Authorization** – Enable live access for specific channels.

**PTZ Authorization** – Enable PTZ control for specific channels.

### Firmware Upgrade

The HRDP Performance Series DVR can be remotely upgraded with the latest firmware. Download the firmware file to your PC, locate the file on the Firmware Upgrade screen and click UPGRADE.

# Search Overview



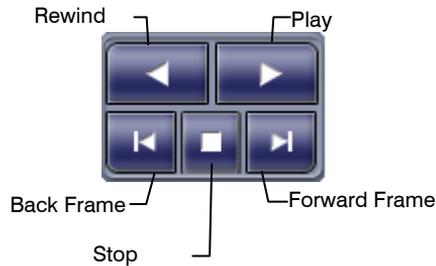
---

**Note** Audio Channel buttons are only viewable when one camera is selected.

---

## Play Controls

---



---

<b>Back Frame</b>	Moves video back one frame
<b>Rewind</b>	Rewinds video
<b>Stop</b>	Stops video playback
<b>Play</b>	Plays video
<b>Forward Frame</b>	Moves video forward one frame

---

## Performing a Basic Search

---

1. Select a date using the Calendar button on the Date Display.
2. Select a time using the hour and minute control bars.
3. Select one or more cameras.
4. Click Play. (Video can be played forwards, backwards, or frame-by-frame.)

## Adjust the Brightness of an Image

---

1. Pause the video and select an image to adjust by double-clicking the desired image. (Multiple images cannot be adjusted at one time.)
2. Move the Bright slide bar to the right or left to adjust the brightness.
3. Reset the Brightness by moving the slider back to the center of the bar.

## Zooming in on an Image

---

1. Pause the video and select an image to adjust by double-clicking on the desired image. (Multiple images cannot be adjusted at one time.)
2. Move the Zoom slide bar to the right or left to zoom in or out of an image.
3. Reset the Zoom by moving the slider back to its original position on the bar.

## Zooming in on a Portion of an Image

---

1. Using the mouse pointer, point to the area of interest on the image and click the right mouse button.
2. Keep clicking the right mouse button to zoom in further.
3. Continue clicking the right mouse button and the image zoom will cycle back to the original size.

## Printing an Image

---

1. Using the Search screen, locate a frame to print and double-click the image.

---

**Note** Only one camera can be selected at a time for this function to work.

---

2. Click the Print button. (A Print Preview window appears. Depending on the printer being used, there may be several printing options available. Refer to the printer manual for more information.)
3. Click the Page Option button to add a memo to the printout and set the paper size and orientation.
4. Click the Print button to print the selected images.

---

**Note** The message "NO DEFAULT PRINTERS INSTALLED" will display if no printer is installed.

---

## Save Clip

---

The DVR can export single images in the JPG file format, save video clips in the AVI format, or output to a VCR using the s-video port. The JPG and AVI file formats are extremely common with universal computer support making them ideal formats to use. A digital signature is also attached to every JPG and AVI file exported by the DVR for use with the bundled Digital Verifier application. This function is unique to the DVR and its verification software and should not interfere with viewing the files using other applications.

**JPG** The format (JPG) is optimized for compressing full-color or grayscale photographic images. JPG images are 24-bit (16.7 million color) graphics. JPG is used to export a single image or frame.

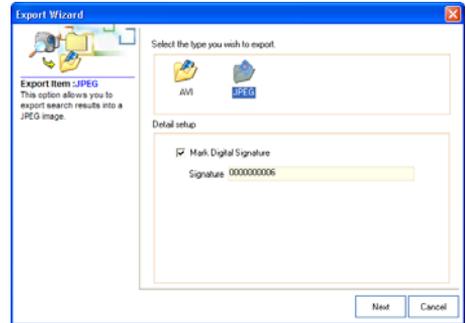
**AVI** AVI image data can be stored uncompressed, but it is typically compressed using a Windows-supplied or third party compression and decompression module called a codec. AVI files save a video clip.

## Saving a Video Clip

1. Perform a basic search to locate the desired clip.
2. Click Save to open the Export Wizard.
3. Click JPEG or AVI to select the desired file type.

### AVI File

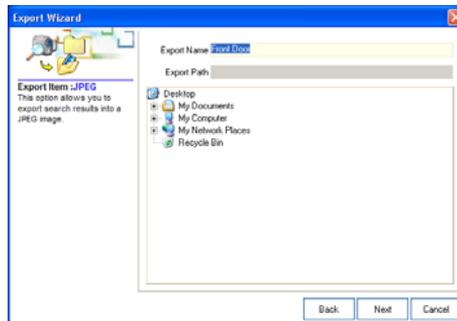
- a. Select Mark Digital Signature.
- b. Select an Audio Channel if available.
- c. Select a Compression Codec. Each codec provides different levels of quality, compatibility and file-size.
- d. Enter the duration (seconds) to record. Although 50 is the longest time displayed, a longer recording may be entered manually.
- e. Select Quality - 50 > 100. When size is not an issue, set quality to 100.



### JPEG File

- a. Select Mark Digital Signature.

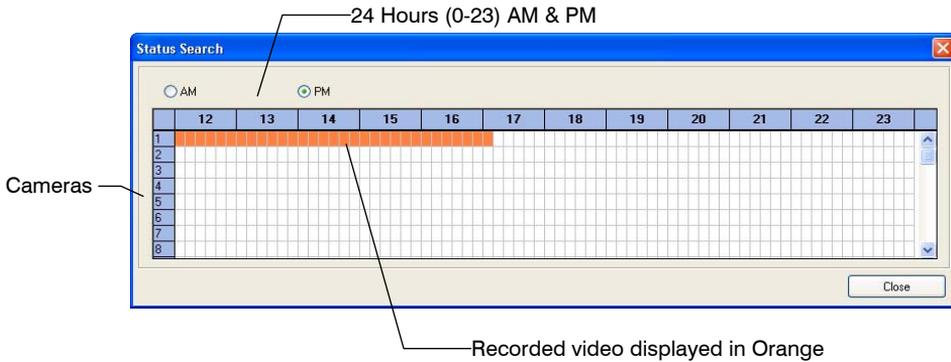
4. Click Next.



5. Define the file name in the Export Name box.
6. Define the location to save the file by using menu tree below Export Path.
7. Click Next.
8. A message displays to confirm that the save was successful.
9. Click OK. The Export Wizard will display the name, location and size of the file.
10. Click Finish.

## Status Search

The Status Search option displays a timeline in graph format. Scroll through multiple cameras and easily locate hours with recorded video.



## Performing a Status Search

---

1. In Search mode, click Status.
2. Click the Date button to open the calendar and select a date.
3. Click along the orange recorded video block to select a desired camera or time frame.
4. After locating the desired video, close the Status Search window and use the playback controls to play forward, reverse or frame-by-frame.

## PTZ Overview

### Accessing PTZ Menus

---

Some protocols support the ability to access the Internal PTZ Onscreen Menu. Click PAN/TILT on the remote software Live View screen to open the graphical PTZ controller.

Some protocols support the ability to access the Internal PTZ Onscreen Menu.

Since every PTZ camera is different, the functions of these options can vary slightly.

The Performance Series DVR provides an easy way to access the cameras options. For explanations of what those options are please refer to the manual that came with the camera.

---

**Note** Use the arrow buttons on the PTZ controller move through the PTZ Menu options and/or highlight options.

---



### Controlling a PTZ Camera

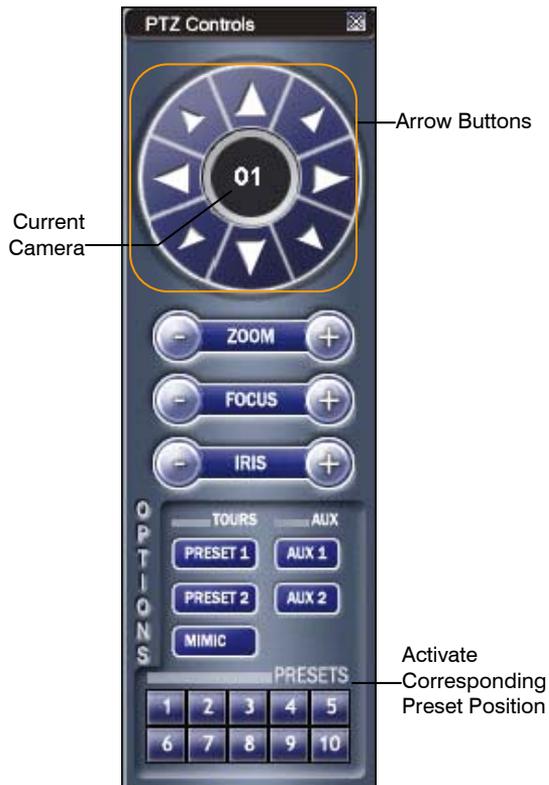
---

- The first method is to use the graphical PTZ Controller that appears when PAN/TILT is clicked on the Live View screen.
- The second method is to use the mouse to control the camera directly from the live video display.

## Using the Graphical PTZ Controller

---

- Use the Arrow buttons to control the direction of the PTZ camera.
- To select a new camera, click the video display of a different camera on the Live View screen.



---

**Note** Eight directions are available only for select protocols. Only four of the PTZ Control buttons work for all protocols (UP, DOWN, LEFT, RIGHT).

---

## Using the On-screen Compass

---



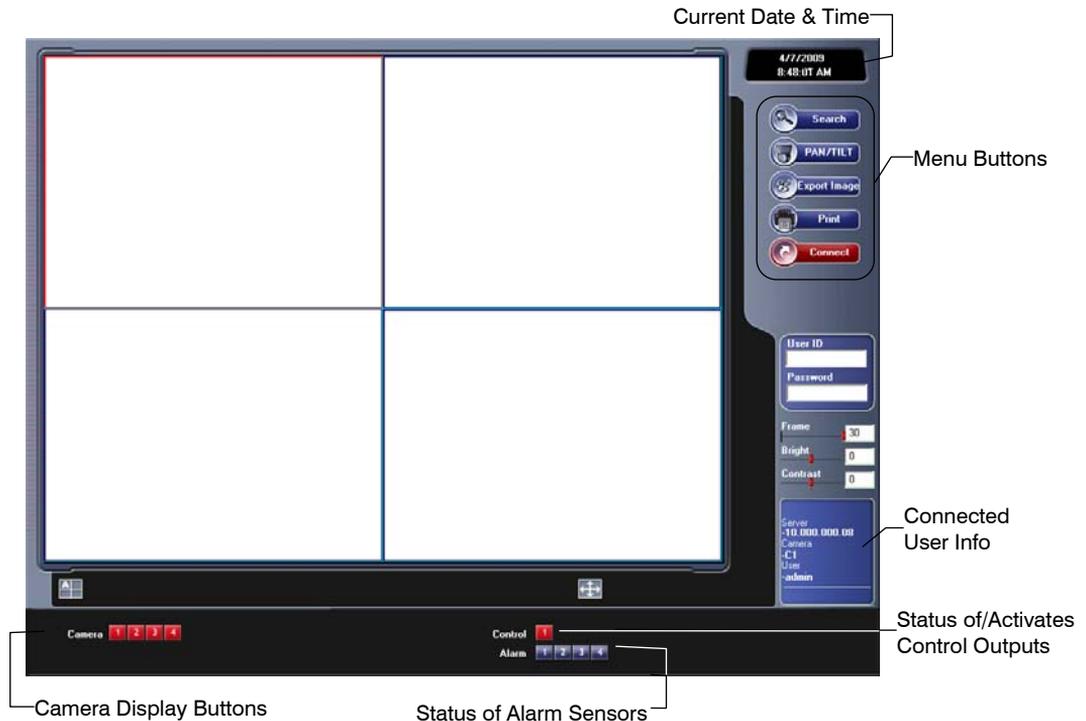
1. Click PAN/TILT on the Live View screen.
2. Control the PTZ by dragging the mouse on the screen in the desired direction.

A green line will appear to show the direction the PTZ will move. The shorter the line the less the PTZ will move. The longer the line the more the PTZ will travel in the specified direction.

## Web Viewer Overview

The DVR allows access to the video using Microsoft® Internet Explorer® browser 6+.

To log in to the DVR server from the Web Viewer, a user account must be made for the user. This ensures that only authorized users are allowed to log in. In addition, each user can be assigned different privileges that allow or deny access to different functions.



<b>Search</b>	Open the Search screen.
<b>PAN/TILT</b>	Open the PTZ controller.
<b>Export Image</b>	Save JPG file of selected image.
<b>Print</b>	Print selected image on connected printer.
<b>Connect</b>	Connect to a Performance Series DVR.
<b>Frame</b>	Adjust the frames per second playback
<b>Bright</b>	Adjust the brightness of the connected cameras
<b>Contrast</b>	Adjust the contrast of the connected cameras

## Connecting to a DVR Using Web Viewer

1. Open Microsoft Internet Explorer.
2. Enter the IP address of the DVR into the Address bar.
3. When attempting this for the first time you will be asked to accept an Active X installation. Click Yes.

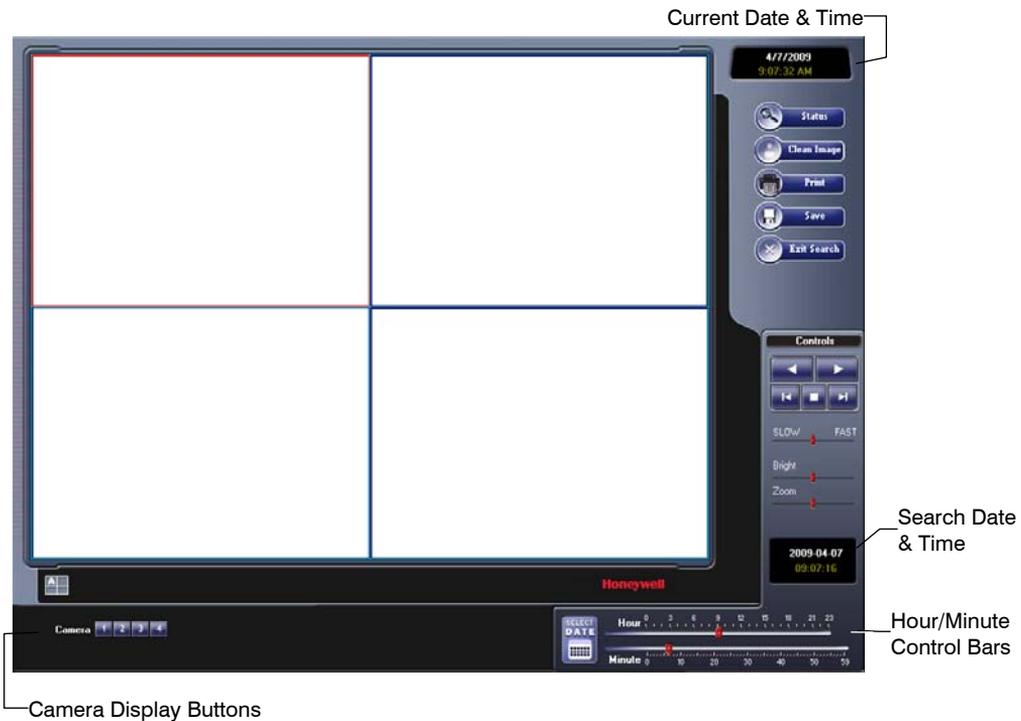
---

**Note** If you receive a message saying Internet Explorer security settings do not allow you to download Active X components then you will need to adjust the browser security settings. Add the IP address of the DVR to the trusted sites list inside Internet Explorer settings. Contact the System administrator for additional help with adjusting Internet Explorer settings.

---

4. Type the User ID and Password of an authorized user.
5. Click Connect. The cameras will display.

## Search Video Using Web Viewer

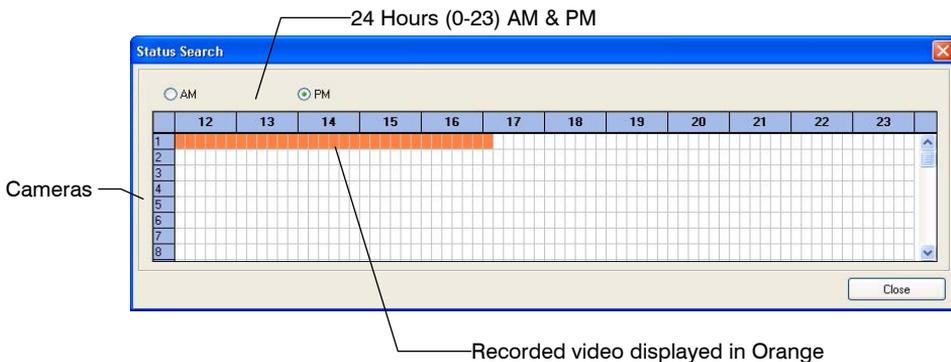


## Performing a Basic Search

1. Click Select Date to open the calendar and select a date.
2. Select a time using the hour and minute control bars.
3. Select one or more cameras.
4. Click Play. (Video can be played forwards, backwards, or frame-by-frame.)

## Status Search

The Status Search option displays a timeline in graph format. Scroll through multiple cameras and easily locate hours with recorded video.



## Performing a Status Search

1. In Search mode, click Status.
2. Click Select Date to open the calendar and select a date.
3. Click along the orange recorded video block to select a desired camera or time frame.
4. After locating the desired video, close the Status Search window and use the playback controls to play forward, reverse or frame-by-frame.

## Clean Image

The HRDPX can record video using one of three different resolutions. When using the 720 x 480 resolution, two fields are mixed. Because of the timing gap between the two fields, according to the standardized image rules, after image might occur to high speed moving images. The HRDP DVR allows the user to remove this by clicking Clean Image.

## Print

---

1. Use the Search screen to locate the desired frame. Double-click the image.

**Note** Only one camera can be selected at a time for this function to work.

---

2. Click Print. The Print Options window opens. Depending on the printer being used, there may be several printing options available. Refer to the printer manual for more information.
  3. Click Print to print the selected images.
- 

**Note** The message "NO DEFAULT PRINTERS INSTALLED" will display if no printer is installed.

---

## Save

---

The HRDPX can export single images in the Image file formats and save video clips in an .AVI format. Both .JPG and .AVI file formats are the most commonly used graphical formats today. Virtually every computer offers some type of support for these file formats which make them the most ideal formats to use.

**JPEG** - Optimized for compressing full-color or grayscale photographic images, JPEG images are 24-bit (16.7 million color) graphics. Use JPEG to export a single image or frame.

**AVI** - AVI image data can be stored uncompressed, but it is typically compressed using a Windows-supplied or third party compression and decompression module called a codec. AVI is used to export a video clip.

1. From the Search screen, click Save.
  2. Select the export type, JPEG or AVI
- 

**Note** Different image format types provide different file-sizes, quality and compatibility

---

3. Select Mark Digital Signature if desired.

### AVI File

- a. Select a compression Codec. Each codec provides different levels of quality, compatibility and file-size.
  - b. Enter the Time to Save (seconds) to record. Although 50 is the longest time displayed, a longer recording may be entered manually.
  - c. Select Quality - 50 > 100. When size is not an issue, set quality to 100.
4. Click Next to select a save location to save file.
  5. Click Next to start exporting the file. The Cancel button exits the window without exporting file.
-

---

## Digital Verifier Overview

---

JPG images and AVI video files that are exported from the Digital Video Recorder are automatically embedded with a digital signature. Digital signatures are a way to verify the authenticity of the images to ensure that they have not been tampered with or edited in any way. Included on the Software Installation DVD, supplied with the DVR, is the Digital Signature Verification program. This program can be installed on any Windows XP or Windows Vista computer.

## Using the Digital Verifier

1. Open the Digital Verification program by selecting Start > Programs > HRDP > Digital Verifier > Digital Signature Verifier.
2. Click the Browse button to load the JPG image.
3. Enter the Site Code of the DVR that the image was originally extracted from. (The Site Code is specified in the System Configuration Menu)
4. Click Verify to continue or Close to close the window without verifying.

If the image has not been tampered with, a blue square will appear around the image with the message "Original image file."

If the image has been tampered with, a red square will appear around the image with the message "Entire image changed or wrong SITE CODE."



## **FVMS (option) Overview**

---

### **Connecting to a DVR using FVMS**

FVMS (software part number HFVMSP) is available as an optional accessory for HRDP. FVMS software is Multi-Site Management Software; a powerful utility that allows 100 or more DVRs to be controlled using one computer. This software allows you to view live video, search saved video, edit and configure setup on each DVR, and import maps of buildings and other locations.

1. Configure the DVR for remote access as shown above in Set up a Remote Connection.
2. Follow the instructions in the FVMS manual for Adding a New Site.

# Appendix

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## Screen Icon Index

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### Recording Icons

Recording icons appear in the up-right corner of each channel display.



**Motion Icon** Motion Recording



**Sensor Icon** Sensor (Alarm) Recording



**Continuous Icon** Continuous Recording



**Recording Icon** Recording

---

**Tip** This icon always appears in conjunction with the motion or continuous recording icons.

---



**Video Loss** Video Loss detected



**Freeze** Pause Live View



**PTZ** PTZ Camera channel

## Status Icons

Status icons appear in the up left corner of each channel display.

- 1:** **Channel** Channel number
- C1** **Channel Name** User defined channel name

## Search Icons

Search icons appear in the up right of each channel display.

-  **Play** Playback mode
-  **Pause** Pause search video
-  **Smart** Smart search mode
-  **Panorama** Panorama search mode

---

## Button Index

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### LED Status Indicators

-  **Power** Illuminates when power is supplied to the DVR.
-  **HDD** Flashes when the hard drive is being accessed.
-  **Record** Flashes when live video is recording.
-  **Network** Illuminates when the DVR is connected to a network.
-  **Fan** Illuminates when the fan is working. Flashes when the fan is working improperly. Unlit when the fan is not working.

## Enter / Exit Buttons



**Enter** Input data, make selections, and open pop-up menus.



**Exit** Return to the previous mode or menu, without saving.

## Function Buttons



**Search** Open the search menu.

**Focus** In PTZ mode, press to use the Focus function.  
Use the ◀ ▶ buttons to adjust.



**Backup** In live mode, press to open the backup menu.  
For Quick Backup in the search mode,

- Press once, to set the start time.
- Press again, to set the end time.
- Press a third time, to complete Backup.

**Zoom** In PTZ mode, press to use PTZ Zoom function.  
Use the ◀ ▶ buttons to adjust.



**Rotate** Rotate through to the remaining channels in the current display mode or rotate the display configuration.

**Preset** In PTZ mode, press to use the Preset function.



**Key** Log out the current user. Use to prevent accidental or unauthorized system-wide changes.

**Iris** In PTZ mode, press to use the IRIS function.  
Use the ◀ ▶ buttons to adjust.



**Live** Change the display mode. Display switches in the following order when the LIVE key is pressed successively: (Single > 4 > 7 > 9 > 10 > 13 > 16 > Single > 4 > 7 > 9 ...split screen mode)



**Setup** Open the setup menu.

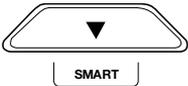
## Numeric Buttons and Rec

	<b>Numeric</b>	In live and search modes, press to watch that channel full screen.
	<b>Record</b>	In live mode, press to start instant recording of all channels.

## Directional and Playback Control Buttons

	<b>Live</b>	Go to PTZ mode.
	<b>PTZ</b>	Adjust zoom, focus, and iris on a PTZ channel.
	<b>Search</b>	Start reverse playback of recordings. Press successively to change the fast reverse speed.
	<b>Search-Pause</b>	When pressed successively, the reverse playback rate increases from 1/2X speed to 1/8X.
	<b>Live</b>	Start playback of the latest recordings. (By default, the system searches recordings in the past 30 secs. If no recording is archived, the system will play back the latest one.)
	<b>PTZ</b>	Adjust zoom, focus, and iris on a PTZ channel.
	<b>Search</b>	Start playback of recordings. Press successively to change the fast forward speed.
	<b>Search-Pause</b>	When pressed successively, the playback rate increases from 1/2X speed to 1/8X.
	<b>Navigation</b>	Move up.
	<b>PTZ</b>	Move the camera view point up.
	<b>Search</b>	Start Panorama Search.
	<b>Navigation</b>	Move to the right.
	<b>PTZ</b>	Move the camera view point to the right.
	<b>Search</b>	Play recorded videos. When pressed successively, the search jumps forward in time by 30 minute increments.
	<b>Search-Pause</b>	Step forward one frame.

## Directional and Playback Control Buttons continued

	<b>Navigation</b>	Move down.
	<b>PTZ</b>	Move the camera view point down.
	<b>Search</b>	Start Smart Search.
	<b>Navigation</b>	Move to the left.
	<b>PTZ</b>	Move camera's view point to the left.
	<b>Search</b>	Play recorded videos in reverse. When pressed successively, the search jumps back in time by 30 minute increments.
	<b>Search-Pause</b>	Step back one frame.
	<b>Live</b>	Freeze live channels.
	<b>Live Freeze</b>	Resume live view.
	<b>Search</b>	Pause playback channels.
	<b>Search-Pause</b>	Resume playback.

## DVR FAQ

### General

- Q.** What does Embedded Linux mean?
- A.** Embedded Linux means that the operating system of the DVR has been imprinted into the CPU (Central Processing Unit). This means that the system response time is faster, more stable, and that the core of the DVR is protected against external factors, such as virus.
- Q.** Is the DVR upgradeable by CD or network?
- A.** Yes.
- Q.** How can I reset the DVR to the factory default settings?
- A.** Load the factory default settings from the System Configuration Menu.

### Live Monitoring

- Q.** Is it possible to monitor the live video of specific cameras?
- A.** You can set the camera sequence through Spot/Sequence Configuration or by connecting to one of the 3 spot monitor outputs on the rear of the DVR unit.

## Recording

**Q.** How do you record?

---

**A.** For information on this topic view the Recording Configuration section of this manual.

---

**Q.** What is Time Recording?

---

**A.** Time recording is recording scheduled to occur regardless of whether a motion or alarm event occurs.

---

**Q.** What is Event Recording?

---

**A.** Event Recording is recording which is activated when an event (motion or alarm) occurs.

## Searching and Playing Video

**Q.** How do I play back recorded video?

---

**A.** For more information on this topic, see the Search section of this manual.

---

**Q.** Is it possible to back up recorded video?

---

**A.** Yes, for more information on this topic see the Backup section of this manual.

## Backup

**Q.** Is it possible to back up to DVD media?

---

**A.** Yes, you have DVD-RW installed in your DVR.

---

**Q.** Can I back up to a USB memory stick?

---

**A.** Yes, for more information on this topic view the Backup section of this manual.

## Network

**Q.** Does it support dynamic IP?

---

**A.** Yes. Enable DHCP in Network Configuration.

---

**Q.** Mail is not sent out.

---

**A.** Please check all the settings in the Network E-Mail Configuration.

## Miscellaneous

**Q.** What types of cameras can be used?

---

**A.** The Honeywell Performance Series DVR supports either NTSC or PAL analog cameras. Both standards may not be used simultaneously.

---

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## Troubleshooting

---

<b>Problem</b>	<b>Possible Solutions</b>
No Power	Check the power cord connections Check power at the outlet
No Live Video	Check camera video cable and connections Check monitor video cable and connections Check camera power Check camera lens setting
Live Video Too Bright	If a cable is attached to the video channels looping output, make sure that it is properly terminated.
DVR has stopped recording	The HDD is full, delete video or set the DVR Overwrite Mode to On in Disk Configuration > Overwrite.

## Specifications (HRDPX)

Specification		16 Channel
Video	Inputs	<ul style="list-style-type: none"> <li>• 16 Channel Composite</li> </ul>
	Outputs	<ul style="list-style-type: none"> <li>• CCTV Monitor (NTSC/PAL),</li> <li>• CRT(VGA) Monitor</li> <li>• S-Video (NTSC/PAL)</li> <li>• 16 CH Looping Composite</li> <li>• 3 Spot CCTV Monitor (NTSC/PAL)</li> </ul>
Monitoring	Display	<ul style="list-style-type: none"> <li>• NTSC : 480 fps</li> <li>• PAL : 400 fps</li> </ul>
	Screen split	<ul style="list-style-type: none"> <li>• 1/4/7/9/10/13/16</li> </ul>
Recording	Performance	<ul style="list-style-type: none"> <li>• NTSC: CIF(480 fps), 2CIF(240 fps), 4CIF (120 fps)</li> <li>• PAL: CIF(400 fps), 2CIF (200 fps), 4CIF(100 fps)</li> </ul>
	Resolution	<ul style="list-style-type: none"> <li>• NTSC: CIF(352x240), 2CIF(704x240), 4CIF (704x480)</li> <li>• PAL: CIF(352x288), 2CIF (704x288), 4CIF(704x576)</li> </ul>
	Compression	<ul style="list-style-type: none"> <li>• Enhanced MPEG-4</li> </ul>
	Mode	<ul style="list-style-type: none"> <li>• Motion detection, Sensor, Schedule</li> <li>• Variable compression rates, recording frame, motion sensitivity</li> </ul>
Recording	Storage media	<ul style="list-style-type: none"> <li>• Internal 2 x HDD (Option) • USB</li> </ul>
	Audio	<ul style="list-style-type: none"> <li>• 16 Channel, G.726 Compression</li> </ul>
Playback	Mode	<ul style="list-style-type: none"> <li>• Multi-channel playback (Max 16ch), Simultaneous/Panorama/Smart playback</li> </ul>
	Searching	<ul style="list-style-type: none"> <li>• By Channel, Time, Date, Motion Detection, Sensor Events</li> </ul>
Remote Monitoring S/W		<ul style="list-style-type: none"> <li>• Remote Software / Web based viewer</li> </ul>
Alarm		<ul style="list-style-type: none"> <li>• 4</li> </ul>
Sensor		<ul style="list-style-type: none"> <li>• 16</li> </ul>
Camera Control		<ul style="list-style-type: none"> <li>• Pan/Tilt, Zoom, Focus, Iris</li> </ul>
Back-up		<ul style="list-style-type: none"> <li>• DVD +/-RW • USB</li> </ul>
Hardware Spec.	Size	<ul style="list-style-type: none"> <li>• 15.75" (W) x 3.46" (H) x 15.75" (D) (400 mm x 88 mm x 400 mm)</li> </ul>
	Weight	<ul style="list-style-type: none"> <li>• 18 lb (8.2 kg) W/O Packing</li> </ul>
	Power	<ul style="list-style-type: none"> <li>• Input Voltage is 110-230V ~ 47/63Hz 1.75-.85A</li> </ul>
	UPS	<ul style="list-style-type: none"> <li>• External UPS recommended</li> </ul>

Notes

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