

Uniden®

GDVR 20 Series Security System

For more exciting new products please visit our website:
Australia: www.uniden.com.au

OWNER'S MANUAL

IMPORTANT SAFEGUARDS



WARNING

**RISK OF ELECTRICAL SHOCK
DO NOT OPEN**



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD
DO NOT EXPOSE THIS UNIT TO RAIN OR
MOISTURE.**

In addition to the careful attention devoted to quality standards in the manufacturing process of your product, safety is a major factor in the design of every instrument. However, safety is your responsibility too. This section lists important information that will help to ensure your enjoyment and proper use of the product and accessory equipment. Please read them carefully before operating and using your product.

GENERAL PRECAUTIONS

1. All warnings and instructions in this manual should be followed.
2. Remove the plug from the outlet before cleaning. Do not use liquid aerosol detergents. Use a water-dampened cloth for cleaning.
3. Do not use this product in humid or wet places.
4. Keep enough space around the product for ventilation. Slots and openings in the storage cabinet should not be blocked.
5. It is highly recommended to connect the product to a surge protector to protect from damage caused by electrical surges. It is also recommended to connect the product to an uninterruptible power supply (UPS), which has an internal battery that will keep the product running in the event of a power outage.

INSTRUCTIONS

1. **Read and Follow Instructions** - All the safety and operating instructions should be read before the product is set up and used. Follow all operating instructions.
2. **Retain Instructions** - These safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - Comply with all warnings on the product and in the operating instructions.
4. **Power Sources** - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your location, consult your video dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.
5. **Overloading** - Do not overload wall outlets or extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.
6. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
7. **Surge Protectors** - It is highly recommended that the product be connected to a surge protector. Doing so will protect the product from damage caused by power surges.
8. **Uninterruptible Power Supplies (UPS)** - As this product is designed for continuous, 24/7 operation, it is recommended that you connect the product to an uninterruptible power supply. An uninterruptible power supply has an internal battery that will keep the product running in the event of a power outage.
9. **Ventilation** - Slots and openings in the case are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a

built-in installation such as a bookcase or rack unless proper ventilation is provided and the product manufacturer's instructions have been followed.

10. **Water and Moisture** - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool, etc.
11. **Heat** - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.
12. **Accessories** - Do not place this product on an unstable cart, stand, tripod, or table. The product may fall, causing serious damage to the product. Use this product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions and use a mounting accessory recommended by the manufacturer.
13. **Camera Extension Cables** - Check the rating of your extension cable(s) to verify compliance with your local authority regulations prior to installation.
14. **Mounting** - The cameras provided with this system should be mounted only as instructed in this guide or the instructions that came with your cameras, using the provided mounting brackets.
15. **Camera Installation** - Cameras are not intended for submersion in water. Not all cameras can be installed outdoors. Check your camera environmental rating to confirm if they can be installed outdoors. When installing cameras outdoors, installation in a sheltered area is required.

SERVICE

1. **Servicing** - Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
2. **Conditions Requiring Service** - Unplug this product from the wall 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 product.
 - If the product has been exposed to rain or water.
 - If the product has been dropped or the cabinet has been damaged.

- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - When the product exhibits a distinct change in performance. This indicates a need for service.
3. **Replacement Parts** - When replacement parts are required, have the service technician verify that the replacements used have the same safety characteristics as the original parts. Use of replacements specified by the product manufacturer can prevent fire, electric shock, or other hazards.
 4. **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the product is in safe operating condition.

USE

1. **Cleaning** - Unplug the product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
2. **Product and Cart Combination** - When product is installed on a cart, product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
3. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or "short-out" parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
4. **Lightning** - For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power line surges.

CONTENTS

INTRODUCTION	9
WHAT'S IN THE BOX?	10
GETTING TO KNOW YOUR DVR	11
GETTING TO KNOW YOUR CAMERA	12
INSTALLATION	13
SETUP	14
SYSTEM LOGIN	14
REQUIRED SETTINGS	14
DEFAULT OPERATION SETTINGS	15
HOW DO I -	16
SEARCH FOR FILES	16
SET UP ALERTS AND ALARM NOTIFICATION?	16
PLAY BACK RECORDED FILES	16
FIND AND VIEW SNAPSHOTS	16
MASK MOTION SENSITIVE AREAS	16
SET UP EMAIL NOTIFICATION AND ALERT	16
CONFIGURE ALERTS	16
CREATE A RECORDING SCHEDULE	17
TRANSFER RECORDED FILES	17
ADD OR CHANGE A PASSWORD	17
BASIC OPERATION	18
SYSTEM LOGIN	18
LIVE VIEW	18
SYSTEM MENU	20
MAIN MENU OVERVIEW	22
SETUP ICON	23
BASIC SCREEN	23
LIVE SCREEN	27
RECORD SCREEN	27
RECORD SCHEDULE SCREEN	30
ALARM SCREEN	32
NETWORK SCREEN	38
USERS ICON	41
ADVANCED ICON	45

SEARCH ICON	46
TIME SEARCH TAB.....	46
EVENT SEARCH TAB	47
IMAGE TAB.....	48
BACKUP ICON	49
INFORMATION ICON	50
SYSTEM SCREEN.....	50
EVENT LIST SCREEN.....	51
LOG LIST SCREEN	51
NETWORK SCREEN	52
ONLINE USERS LIST SCREEN	52
EXIT SCREEN	52
DISK MANAGEMENT ICON.....	53
LOG OFF ICON	54
SHUT DOWN ICON	54
FIRMWARE UPDATES.....	55
REMOTE ACCESS	56
TROUBLESHOOTING.....	58
SPECIFICATIONS	62
WARRANTY	65

INTRODUCTION

OVERVIEW




The Guardian DVR 20 series (GDVR20) system operates with an embedded LINUX operating system for increased stability. It uses standard H. 264 video compression technology which provide high quality, detailed playback and analysis. TCP/IP network technology provides the GDVR20 system with strong network data transmission.

The GDVR20 works as a stand-alone surveillance system or as part of a larger surveillance network. Its professional network video surveillance software provides strong network communication and telecommunication ability.

ABOUT THIS MANUAL

This OM provides operating procedures for the GDVR20 system. All procedures apply to all models unless specifically noted. Some screen illustrations show entries for all 8 channels and some show for only 4 channels.

What's in the Box

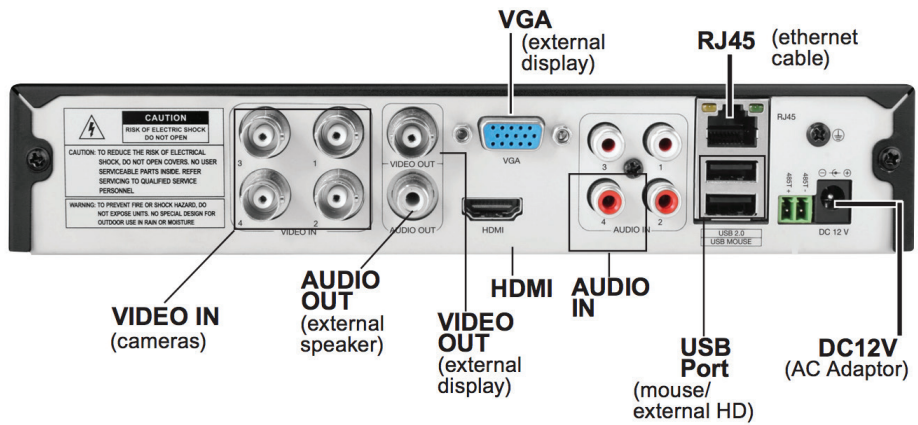
Model	4-Ch DVR With 1TB HDD 	8-Ch DVR With 1TB HDD 	PIR Camera 
GDVR 20440	1	-	4
GDVR 20880	-	1	8

Each Kit comes with:

1. Power Splitter Cable
2. DVR & Camera Power Supply
3. HDMI Cable
4. Mouse
5. Ethernet Cable
6. 18m BNC Video & Power cable
7. Security Sticker
8. Mounting Kit



Getting to Know Your DVR



Getting to Know Your Camera

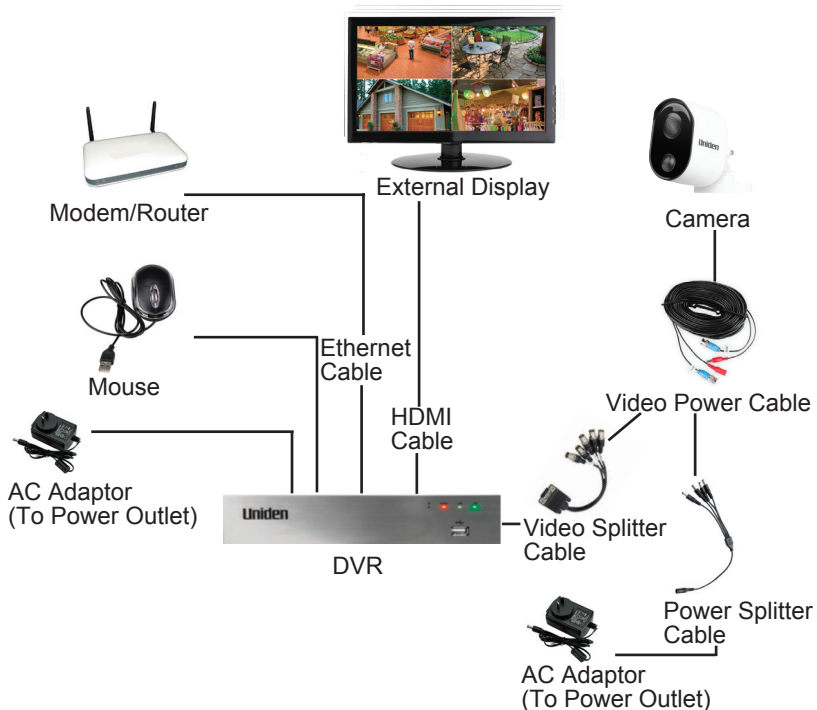
Outdoor Camera



Outdoor cameras should be visible, making it a deterrent for intruders.

INSTALLATION

Follow the steps below to connect the DVR and the camera(s).

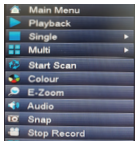



1. Connect the camera to the connectors on the Video Power cable.
2. Connect the yellow BNC connector of the Video Power cable to the Video Splitter cable. Then, plug the Video Splitter cable into the VIDEO/IN/OUT port on the DVR.
3. Connect the red power connector of the Video Power cable to the Power Splitter cable.
4. Connect the HDMI cable (supplied) to the HDMI port on the DVR and to the external display device (TV/PC) or use the VGA cable (not supplied) for the VGA port.
5. Connect the Mouse to one of the USB ports on the DVR.
6. Connect the Ethernet cable to the RJ45 port on the DVR and to your modem/router (for remote viewing).
7. Connect the Power Splitter cable to the camera's AC adaptor, which connects to a power outlet.
8. Plug the DVR's AC Adaptor jack into the DC5V port (on the DVR) and the other end to a power outlet.

SETUP

Live video displays when you power up the system. However, until you log in, you can only view live video; you cannot access any other system operations. (For the initial set up, a series of Wizard screens pop up. Change the default parameters, if necessary, if not, click *Next*, till you reach the screen that displays *Finish*. Click *Finish*.)

System Login

1. Right-click on the screen. The system menu displays.	
2. Select any option. The <i>Login</i> screen displays.	
3. The default values are <i>admin</i> (user name), you will be prompted to set a new password for the system.	

Required Settings

Set the system date and time so recorded files will be correctly timestamped. Next, create a password for the “admin” user.

Set Date and Time

The correct date and time are critical for the timestamp on recorded files. If the timestamp is incorrect, searching for a specific recorded file will be difficult.

From *Main Menu/Setup/Basic*, select the *Date & Time* tab.

Set Password

Passwords prevent unauthorized access to system configuration screens. The Admin user originally has no password so you can log into the system for setup.

Uniden strongly recommends that, once you have logged into the system, you create a password for the Admin user.

From *Main Menu/Users/User Management*, select the *Password* field.

Default Operation Settings

Uniden's default settings allow you to begin monitoring your network immediately. After you have monitored your network for a week or two, you may find you need to slightly adjust your settings. For example, you may need to mask areas from motion detection (trees, etc).

HOW DO I -

Search for Files

There are three basic methods for searching files – search for files within a certain time frame, search a time frame for triggered files, and search for events through the Information screen.

The first two methods use the *Search* screen (*Main Menu/Search*).

1. Select *Main Menu/Search*. The *Search* screen displays.
2. Select the *Time Search* tab to find files within a specific time frame or the *Event Search* tab to find motion sensor, sensor-triggered, or all triggered files.
3. From the *Main Menu/Information/Event List*, set up what time frame and cameras you want to search and whether you want to search for Motion, Sensor, or Video Loss (this screen is similar to the *Search* screen above). Select *Search* tab and records that meet those criteria, display.

Set Up Alerts Notification

Main Menu/Setup/Alerts/Other Alerts

Play Back Recorded Files

- Right-click *Playback* on *System* Menu to view the last 30 minute segment.
- Main Menu/*Search* (Time Search or Event Search tab)

Find and View Snapshots

Main Menu/Search/Image

Mask Motion Sensitive areas

Main Menu/Setup/Alerts/Motion, Area field

Set Up Email Notification and Alert

Main Menu/Setup/Network, Email tab

Configure Alerts

Main Menu/Setup/Alerts. Select type of alarm (Motion, Video Loss, or Other Alerts).

Create a Recording Schedule

Main Menu/Setup/Schedule. You can set up recording by a specific calendar schedule.

Transfer Recorded Files from the Hard Drive to a USB Device

Main Menu/Setup/Advanced/Import/Export tab.



Add or Change a Password

Main Menu/Setup/Users/User Management, Change Password field.

BASIC OPERATION

Live video displays when you power up the system. However, until you log in, you can only view live video; you cannot access any other system operations.

SYSTEM LOGIN




1. Right-click on the screen. The system menu displays.	 A vertical system menu with the following items: Main Menu, Playback, Single, Multi, Start Scan, Colour, E-Zoom, Audio, Snap, and Stop Record.
2. Select any option. The <i>Login</i> screen displays.	 A login screen with a title bar 'Login', a text field containing 'admin', a password field, and 'Login' and 'Cancel' buttons at the bottom.
3. The default values are <i>admin</i> (user name), you will be prompted to set a new password for the system.	

LIVE VIEW

Live view displays video images from all 4/8 cameras. The date, time, and camera number display in each viewing window. The recording and alarm status icons display in the lower left-hand corner of each window.

Double-click the left mouse button on a live view image to view that image in full screen rather than in a 4-part window. Double-click the left-mouse button again to return to quad view.



IMAGE	MEANING
	Recording Type - indicated by box color <ul style="list-style-type: none"> • Green - Manual or triggered recording • Yellow - Motion detection recording • Blue - Schedule recording
	Motion Detected. This icon displays when the camera for that view detects motion.
	Network Disconnected
DD/MM/YYYY HH:MM:SS	Date and Time Stamp for recorded files

SYSTEM MENU

In Live view, right-click on any screen to bring up the *System* menu. Right-click again to close the *System* menu.

The *System* menu manages the GDVR receiver and cameras. Use it to configure and manage your video, cameras, and recordings. Many of these menus are shortcuts to commonly-used actions from the *Main Menu* screen.



MENU ITEM	DESCRIPTION
Main Menu	Provides extensive system configuration and operation setup. The Main Menu and its submenus are described in detail beginning on page 22.
Playback	Play the video files in the hard disk. You can also search the video according to time and event under <i>Main Menu/Search</i> to enter the playback interface.
Single	Select a camera to display in full screen. Double click the left mouse button to return to Multi channel mode.
Multi	Select this menu option from Single channel mode to display all 4/8 cameras in Multi channel mode.
Start Scan/ Stop Scan	Turn Scan operation on and off. (You must first set up scanning parameters such as how long a specific camera displays before moving to the next camera).

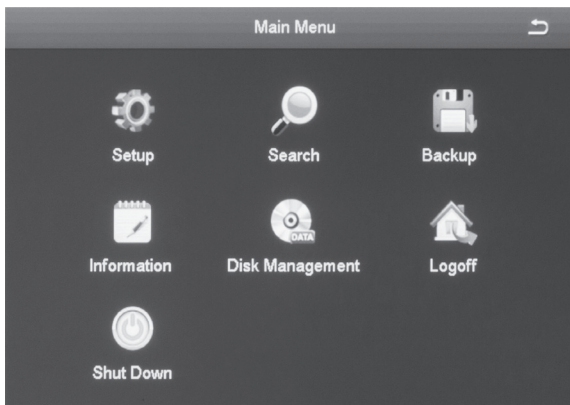
MENU ITEM	DESCRIPTION
Colour	Set image parameters for all channels. The image parameters include: brightness, contrast, saturation and hue.
E-Zoom	When the screen is in single camera mode and E-Zoom is selected, that camera zooms in for a close up view. The full view displays in the lower left corner. Right-click to return to full view.
Audio	To check audio recording settings in the selected channel panel.
Snap	The GDVR can take snapshots of live video. Tap the camera view that you wish to capture and click on snap. A camera icon displays, indicating that an image has been captured.
Start Record Stop Record	Start and stop recording all channels that have record function enabled.


MAIN MENU OVERVIEW

The Main Menu screen displays icons that represent various system operations. Click on an icon to configure, operate, and maintain the GDVR system.

Appendix A: Menu Structure shows how the menu, screens, and tabs for screens are organized in the system.

From the System menu, select *Main Menu*. The *Main Menu* screen displays.



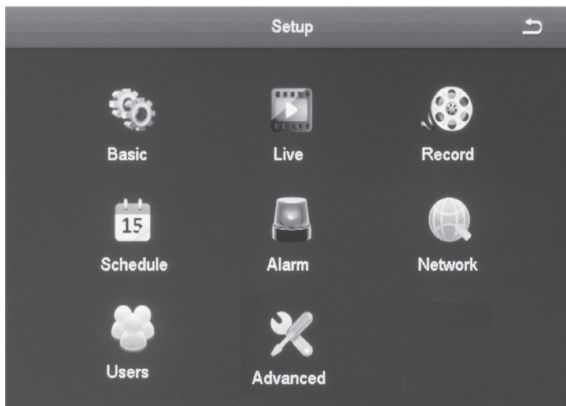
Click on the *Main Menu* icons to select that feature. Icons, submenus, or screens display to help you manage the system. Many of these screens have tabs across the top to further refine operations. Click the  icon to return to the previous screen.

MAIN MENU ICON	DESCRIPTION
Setup	Click on <i>Setup</i> and 9 icons display on the <i>Setup</i> screen. These icons lead you through configuring your system. See page 23 for icon and screen details.
Search	Select <i>Search</i> to display a 4-tab screen to set search parameters and search for specific recorded files.
Backup	The <i>Backup</i> screen lets you set specific time ranges on specific cameras for backup.
Information	Click on <i>Information</i> to view 6 types of system information.
Disk Management	Select the <i>Disk Management</i> icon to view information about the system hard disk and any connected USB drives.

MAIN MENU ICON	DESCRIPTION
Logoff	This selection logs you off of the GDVR system.
Shutdown	This selection powers off the GDVR.

SETUP ICON

Select the *Setup* icon and the *Setup* screen displays 9 options that help you configure and set up your system.

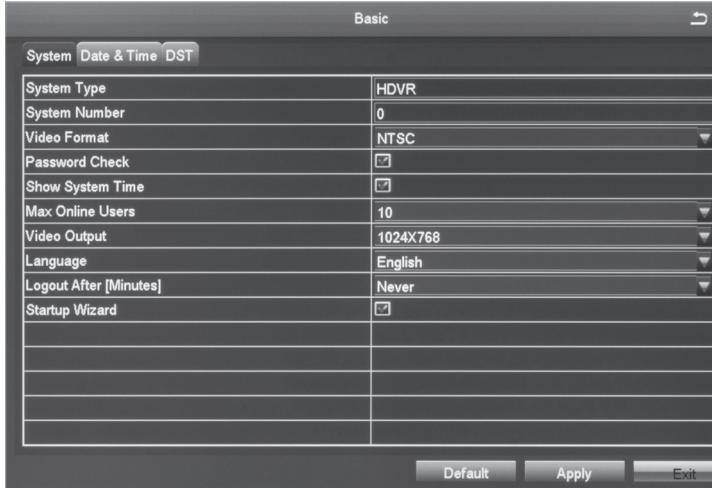


Basic Screen

The *Basic* screen contains three tabs:

- System
- Date & Time
- Daylight Saving Time (DST)

System Tab



FIELD	DESCRIPTION
<i>System Type</i>	Client or system name. Click the field and a popup keyboard displays. Enter a name if desired.
<i>System Number</i>	Used when managing multiple DVR systems. Click the field and a popup number keypad displays. Enter a number, if desired.
<i>Video Format</i>	Support NTSC and PAL format (default = PAL).
<i>Password Check</i>	Keep checked to require a password to log in.
<i>Show System Time</i>	Choose whether to display time in the field or not.
<i>Max Online Users</i>	Set the number of network users visiting the device.
<i>Video Output</i>	User can select VGA 800x600, 1024x768, 1280x720, 1280x1024, HDMI, etc., output mode.
<i>Language</i>	Select display language.
<i>Logout After [Minutes]</i>	When there is no action after this set time , the system automatically logs out.
<i>Startup Wizard</i>	Display Wizard (or not) when the system is turned on.

Date & Time Tab

In this interface, set the date format, time format, time zone; you can also adjust the system time manually.

Note: the default time zone of the system is GMT+10:00.

Select *Sync Time with NTP Server* to correct time. Network server time can be set.

FIELD	DESCRIPTION
<i>Date Format</i>	Set date format
<i>Time Format</i>	12 or 24 hour format
<i>Time Zone</i>	Set time zone in GMT format.
<i>Sync Time with NTP Server</i>	Check box to select time sync; uncheck box to deselect.
<i>NTP Server</i>	Select <i>Update Now</i> to sync time.
<i>System Date</i>	Set date through pop-up calendar.
<i>System Time</i>	Set time.

DST Tab

Set the start and end time of daylight saving time by week or date.

Basic

System Date & Time DST

Enable	<input type="checkbox"/>
Time Offset [Hours]	1
Mode	<input checked="" type="radio"/> Week <input type="radio"/> Date
From	March
	The 2nd
	Sunday
	01 : 00 : 00
Until	November
	The 1st
	Sunday
	02 : 00 : 00

Default Apply Exit

FIELD	DESCRIPTION
<i>Enable</i>	Turn DST on or off. This does not set DST; it turns the system's ability to keep track of DST on or off.
<i>Time Offset [Hours]</i>	Select 1 or 2 hour offset.
<i>Mode</i>	Set DST by week or by actual date.
<i>From</i>	Set DST beginning date. (Always the first Sunday of October, offset 1 hr) If Mode = Week, set DST by month, number of week, day of week, and hours to be offset (i.e., /the 1st/Sunday/1 hour offset) If Mode = Date, set DST by date according to popup calendar.
<i>Until</i>	Set DST ending date. (Always the first Sunday in April, offset 1 hour) If Mode = Week, set DST by month, number of week, day of week, and hours to be offset (i.e., April/the 1st/Sunday/1 hour offset) If Mode = Date, set DST by date according to popup calendar.
<i>Default</i>	Select <i>Default</i> to use the automatic DST default values.
<i>Apply</i>	Select <i>Apply</i> to use the values you just manually set.
<i>Exit</i>	Leave the screen without making changes.

Live Screen

The *Live* screen establishes how the screen looks when in Live view. It has 3 tabs:

- Live
- Main Monitor
- Video Blind

Main Monitor Tab

This screen lets you determine in what order the cameras' live video displays in the screen's sections. You can also set how long the video pauses on each image before moving to another image (5 to 60 seconds in 5 second intervals).



Record Screen

The *Record* screen configures how the files will be recorded. It has 5 tabs:

- Enable
- Record Bitrate
- Stamp
- Recycle Record
- Snap

Enable Tab

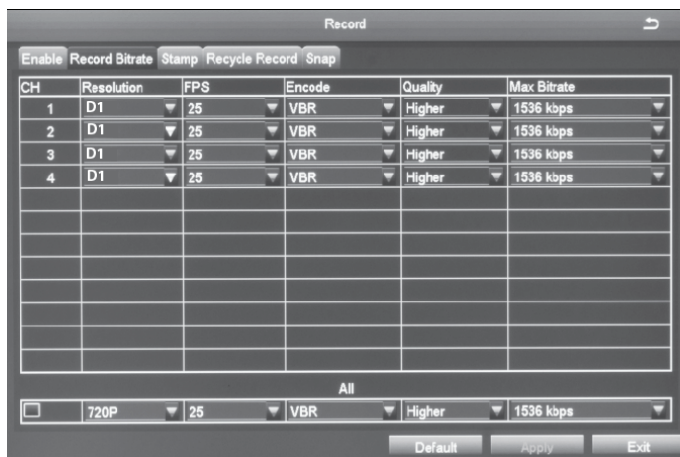
Use this tab to determine if the selected camera will record video.



FIELD	DESCRIPTION
<i>Record</i>	Check to set the channel to record video. Uncheck to skip recording video for this channel.
<i>All</i>	Apply selections to all channels.

Record Bitrate Tab

This tab allows you to set the recorded file characteristics. You can set a channel to record at a higher quality or a lower frames per second. The resolution, frames per second, and maximum bitrate determine how large a recorded file will be. If you need to record long periods of time, set your parameters lower. Otherwise, there will not be enough room on the hard drive to save the recorded file.



FIELD	DESCRIPTION
<i>Resolution</i>	Supports D1, 960H, 720P and 1080P resolution.
<i>FPS</i>	Range: 1-15 (Default = 15 fps)
<i>Encode</i>	Support VBR (Variable Bit Rate) and CBR (Constant Bit Rate) (Default = Variable Bit Rate)
<i>Quality</i>	The higher the quality is, the clearer the video images are.
<i>Max Bitrate</i>	256 kbps ~ 2048 kbps

Check the box on the bottom row to set all channels to the same parameters at the same time.

Overwrite Tab

The *Overwrite* allows the system to automatically overwrite the oldest recorded files and continue recording when the hard disk is full. If the box is not checked (not enabled), the system stops recording and displays an information message.

Record Schedule Screen


The *Schedule* screen lets you set up recording schedules. It has 2 tabs:

- Schedule
- Motion

Schedule Tab


This tab sets up a basic schedule for recording.

(Default = No recording blocks selected)

1. Select a channel whose recording schedule you want to set up.
2. Select the () icon to set 1-hour blocks when you WANT that channel to record.
3. Select one-hour blocks to add to the recording setup.
4. When you have the schedule set up as you want it, select *Apply*. The configuration for that channel is now saved.
5. If you want to use that same configuration on another channel, select that channel in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now copied to the second desired channel.
6. If you want to apply the settings from one channel to ALL channels, select *All* in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now copied to all channels.
7. Select *Apply* to save the settings.
8. Select *Exit*.


PIR Tab

This tab sets up a schedule for motion sensor recording. (Default = All recording blocks selected)

1. Select a channel whose motion sensor recording schedule you want to set up.
2. Select the erase icon () and click on the 1-hour recording blocks you DO NOT want that channel to record.
3. When you have the schedule set up as you want it, select *Apply*. The configuration for that channel is now saved.
4. If you want to use that same configuration on another channel, select that channel in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now saved on the second desired channel.
5. If you want to apply the settings from one channel to ALL channels, select *All* in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now saved on all channels.
6. Select *Exit*.

Motion Tab

This tab sets up a schedule for motion sensor recording. (Default = All recording blocks selected)

1. Select a channel whose motion sensor recording schedule you want to set up.
2. Select the erase icon () and click on the 1-hour recording blocks you DO NOT want that channel to record.
3. When you have the schedule set up as you want it, select *Apply*. The configuration for that channel is now saved.
4. If you want to use that same configuration on another channel, select that channel in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now saved on the second desired channel.
5. If you want to apply the settings from one channel to ALL channels, select *All* in the dropdown box for *Apply Settings To*. Then, select *Copy*. The configuration is now saved on all channels.
6. Select *Exit*.

Alerts Screen

The GDVR system allows you to set parameters for various types of system alerts. The *Alarm* screen is comprised of 3 icons:

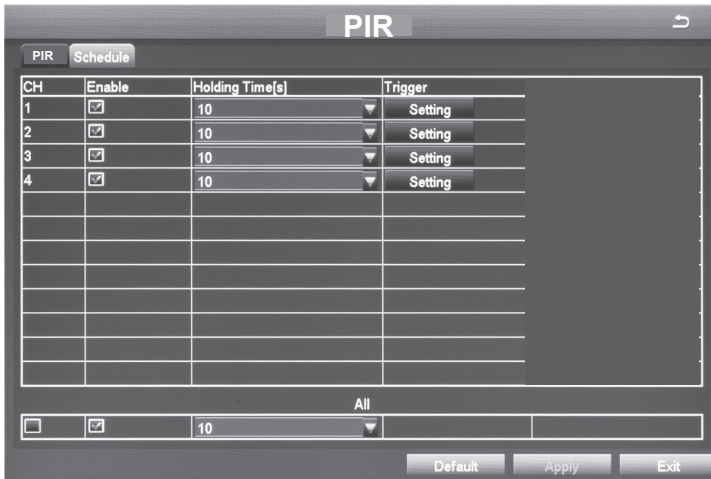
- Motion. Establish parameters for motion detection as well as a motion detection operation schedule.
- Video Loss. Set up an alarm notification plan if any cameras lose video.
- Other alarm. Establish alarm system for other types of alerts not previously covered.

PIR Screen

The Motion screen has 2 tabs: Motion and Schedule.

PIR Tab

When a camera detects a motion, the system sounds a motion detection alarm and takes action according to presets from this screen. The *Trigger* and *Area* fields lead to other screens to set parameters.



FIELD	DESCRIPTION
<i>Enable</i>	Enable this function on a channel to detect motion.
<i>Holding Time</i>	Set an alarm delay time for the channel. Options are 5 sec., 10 sec., 20 sec., 30 sec., 60 sec., and 120 sec., or "Always."

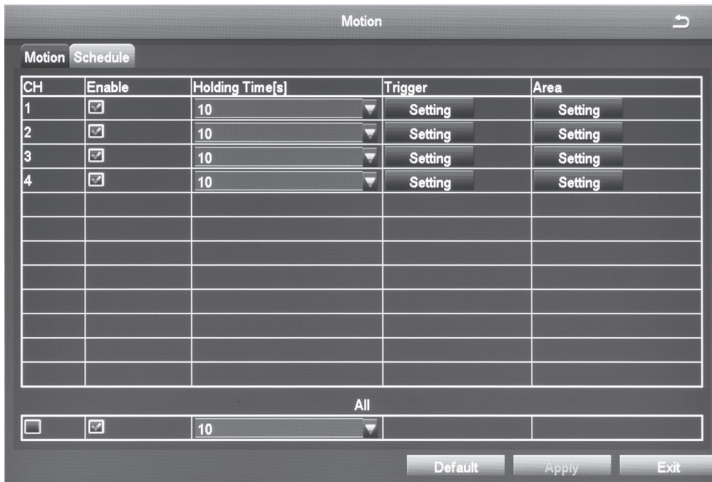
FIELD	DESCRIPTION
<i>Trigger</i>	Select this field to set alarm trigger configuration, trigger recording etc. Selecting this field displays the <i>Trigger</i> screen for a specific channel.

Motion Screen

The Motion screen has 2 tabs: Motion and Schedule.

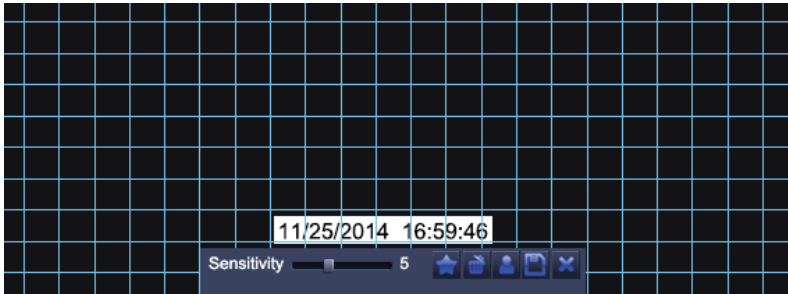
Motion Tab






When a camera detects a motion, the system sounds a motion detection alarm and takes action according to presets from this screen. The *Trigger* and *Area* fields lead to other screens to set parameters.



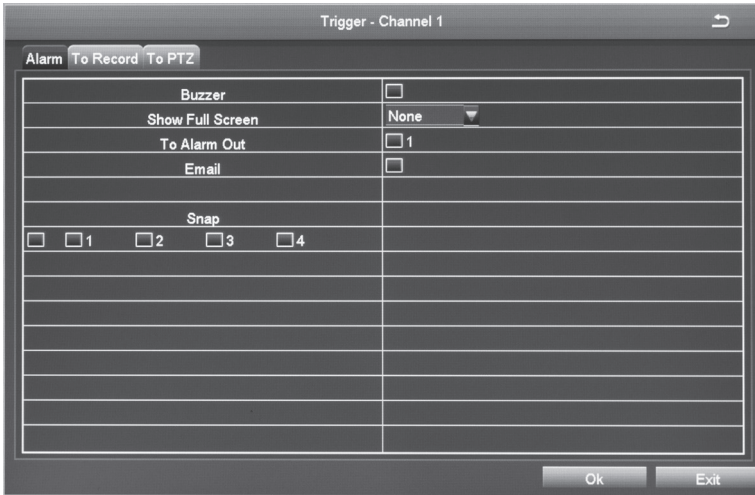
FIELD	DESCRIPTION
<i>Enable</i>	Enable this function on a channel to detect motion.
<i>Holding Time</i>	Set an alarm delay time for the channel. Options are 5 sec., 10 sec., 20 sec., 30 sec., 60 sec., and 120 sec., or "Always."
<i>Trigger</i>	Select this field to set alarm trigger configuration, trigger recording etc. Selecting this field displays the <i>Trigger</i> screen for a specific channel.

FIELD	DESCRIPTION
Area	<p>Commonly called “motion masking,” a grid overlays a selected camera’s live video with task bar at the bottom. Mask off areas the motion detection ignores. You can also determine motion sensitivity (block off ceiling fans, or the floor area if you have pets.)</p> <p>In this interface, the user can drag the scrollbar to adjust the sensitivity value (1-8). The default value is 6; the smaller the value is, the higher the sensitivity. Since the sensitivity is affected by the color, time (day or night), etc, adjust the value according to the actual situation.</p>



	Set all areas to be detection area		Clear the set detection areas
	Drag the mouse to test whether the sensitivity value and the detection area are appropriate or not		Save the settings
	Exit		

Other Alerts Tab



FIELD	DESCRIPTION
<i>Show Full Screen</i>	A big screen popup alarm displays when an alarm is triggered.
<i>To Alarm Out</i>	This tab directs alerts to optional alerts (not included) added to the system.
<i>Email</i>	When enabled and an alarm is triggered, the system sends information relevant to the alarm (alarm event, device name, etc.) to the user-specified mailbox.
<i>Snap</i>	When enabled and an alarm is triggered, the system automatically takes a snapshot of the selected channel and stores it on the hard disk.

To Record Tab

Select which cameras record when an alarm is triggered.

Schedule Tab

This tab sets up a basic schedule for recording.
(Default = No recording blocks selected)

1. Select a channel whose recording schedule you want to set up.

Other Alerts Icon

FIELD	DESCRIPTION
<i>Alerts Type</i>	Select one of the following from the drop-down menu: <ul style="list-style-type: none">• Disk Full• IP Conflict• Disconnect• Disk Attenuation War• Disk Lost
<i>Email</i>	When enabled and an alarm is triggered, the system sends information relevant to the alarm (alarm event, device name, etc.) to the user-specified mailbox.
<i>To Alarm Out</i>	When enabled, triggers will send an alarm to the specified alarm output.
<i>Disk Shortage Alarm</i>	Select a minimum disk capacity to trigger a Disk Shortage Alarm.

Network Screen

Network Configuration includes five tabs:

- Network
- Email

Network Tab

Do not change these presets. This is for information purposes only.

The screenshot shows a 'Network' configuration window with several tabs: 'Network', 'Sub-Stream', 'Email', 'WiFi Setup', and 'DDNS'. The 'Network' tab is active, displaying a table of settings. The settings are as follows:

HTTP Port	80
Server Port	5000
Mobile Port	5001
Obtain an IP Address Automatically	<input checked="" type="checkbox"/>
IP Address	192.168.001.010
Subnet Mask	255.255.255.000
Gateway	192.168.001.001
Preferred DNS Server	000.000.000.000
Alternate DNS Server	000.000.000.000
PPPOE	<input type="checkbox"/>
User Name	
Password	
	<input type="button" value="Test"/>

At the bottom of the window are 'Apply' and 'Exit' buttons.

FIELD	DESCRIPTION
<i>HTTP Port</i>	Default = 80.
<i>Server Port</i>	Default = 5000.
<i>Mobile Port</i>	Default = 5001.
<i>Obtain an IP Address Automatically</i>	Default = Checked <i>You must have DHCP turned on in your router. (Typical default setting.)</i>
<i>IP Address</i>	IP address of the device.

FIELD	DESCRIPTION
<i>Subnet Mask</i>	Device's subnet mask
<i>Gateway</i>	Device's default gateway.
<i>Preferred DNS Server</i>	The address is provided by your network operator and must be filled in when using remote monitoring.
<i>Alternate DNS Server</i>	Address provided by your network provider.
<i>PPPOE</i>	Enable this to automatically establish a PPPOE network connection with the DVR.
<i>User Name</i>	ISP (Internet Service Provider)
<i>Password</i>	Enter the set password.
<i>Test</i>	Click Test and it will check that the IP address and PPPOE information are valid.

Email Tab

This tab helps you set up how you receive email notifications. You may need to get this information from your internet service provider. (A G-mail account is a good option.)

The screenshot shows a 'Network' configuration window with the 'Email' tab selected. The fields are as follows:

Field	Value
SMTP Server	
Port	465
SSL Check	<input checked="" type="checkbox"/>
Send Address	
Password	
Receive Address1	
Receive Address2	
Receive Address3	

A 'Test' button is located below the 'Receive Address3' field. At the bottom of the window are 'Apply' and 'Exit' buttons.

FIELD	DESCRIPTION
<i>SMTP Server</i>	Mail server address can be IP address and domain name (if domain name, confirm that the DNS setting is right, then it can be correctly resolved) e.g.: smtp.gmail.com
<i>Port</i>	Mail server port number (Default = 465)
<i>SSL Check</i>	Provides secure socket layer for login.
<i>Send Address</i>	Mail server's email address.
<i>Password</i>	Password corresponding to sender's email password.
<i>Receive Address</i>	When an alarm is generated, the system will send email to the specified mailboxes. No more than 3 mailboxes are available.
<i>Test</i>	Tests whether or not the current configuration is successful.

Adding a User

Select the *Add* button, at the bottom of the screen, to display the *Add User* screen. This screen has 2 tabs:

- General. Initial user setup (User name, password, user type, etc.)
- Authority. Grants new user access to specific elements of the system (Remote login, manual record, remote live view, etc.)

General Tab

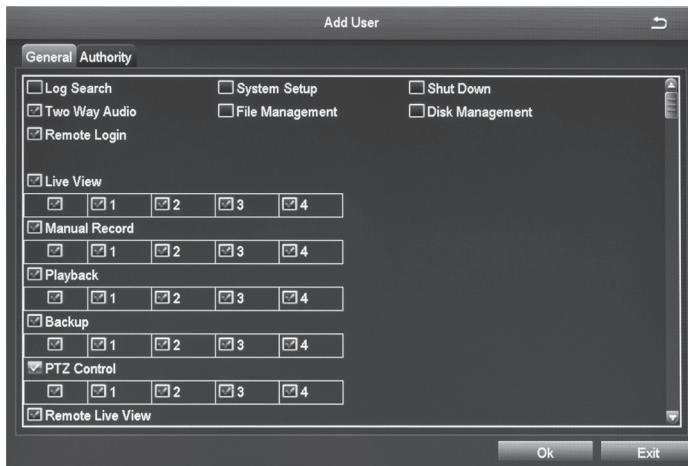
FIELD	DESCRIPTION
<i>User Name</i>	Provide a user name.
<i>Password</i>	Enter user's password to the system
<i>Confirm Password</i>	Reenter user's password
<i>User Type</i>	Normal or Advanced
<i>Binding PC MAC Address</i>	Links the PC and MAC address.
<i>PC MAC Address</i>	Computer's unique hardware number. Enter the MAC address to restrict access to the DVR to only that PC when connected, Enter all zeros to lift this restriction and make access available to any PCs.

NOTE: If a computer's physical address is 0, the GDVR system does not bind to a specific computer and the user can use any computer to log into the client to use the DVR. However, once a specific computer's physical address is entered, the user can only use that specific computer to log in to the client to use the DVR.

Authority Tab

This tab allows you to customize what each user can access. Click on the corresponding box to enable/disable access.

- Log Search
- Remote Login
- File Management
- Disk Management
- Manual Record (per camera)
- Backup (per camera)
- Remote Live View (per camera)
- Two Way Audio
- System Setup
- Shut Down
- Live View (per camera)
- Playback (per camera)



NOTE: If a computer's physical address is 0, the GDVR system does not bind to a specific computer and the user can use any computer to log into the client to use the DVR. However, once a specific computer's physical address is entered, the user can only use that specific computer log into the client to use the DVR.

Deleting a User

1. Select a user from the *User Management* screen.
2. Select *Delete*. The system displays a confirmation message.
3. Confirm deletion.

Changing a Password

1. Select *Change Password* from the *User Management* screen.
2. The *Change Password* screen displays.

A screenshot of a 'Change Password' dialog box. The title bar at the top reads 'Change Password' and includes a back arrow icon. The dialog contains three text input fields labeled 'Old Password', 'New Password', and 'Confirm Password'. At the bottom, there are two buttons: 'Ok' and 'Exit'.

3. Enter the fields and select *OK*. A confirmation screen displays.

Advanced Icon

Select the *Advanced* icon; the *Advanced Setup* screen displays 3 icons:

- Reset. Return all settings to factory defaults.
- Import/Export. Export system parameters to other devices, eliminating the need to configure devices separately.
- Exit. Returns to *Setup* screen.

Export/Import Parameters

If you have to return your DVR to factory settings, all your current settings will be lost. Copy your current system configuration to a USB drive to reload after your DVR has been reset.

When you import system parameters from the USB drive, power off your device, insert the USB drive in a USB slot in the BACK of the unit, and then turn the DVR back on.

SEARCH ICON

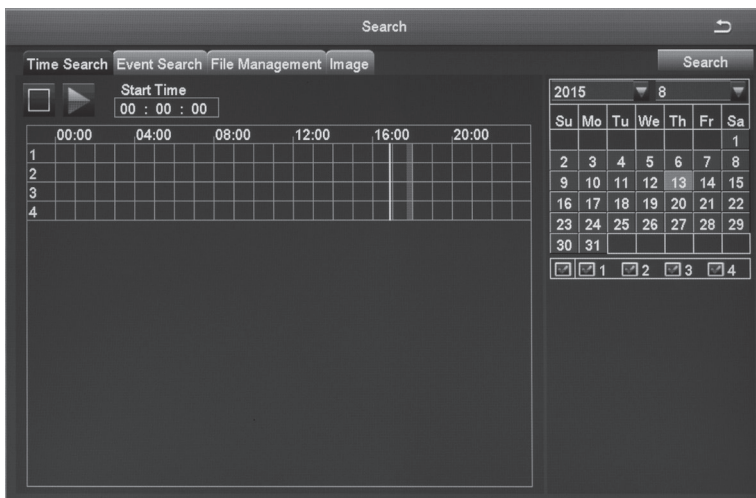
Select the Search icon and the *Search* screen displays with 4 tabs:

- Time Search. Select this tab to search all channels for files recorded during a specified time period.
- Event Search. Select this tab to search specific channels for recorded events during specific start and end times.
- File Management. Once you have located files for a specific time period, you can select those files for deletion or lock them to prevent them being deleted.
- Image. Search for snapshots.

Time Search Tab

Use this tab if you need to check video for a specific time frame.

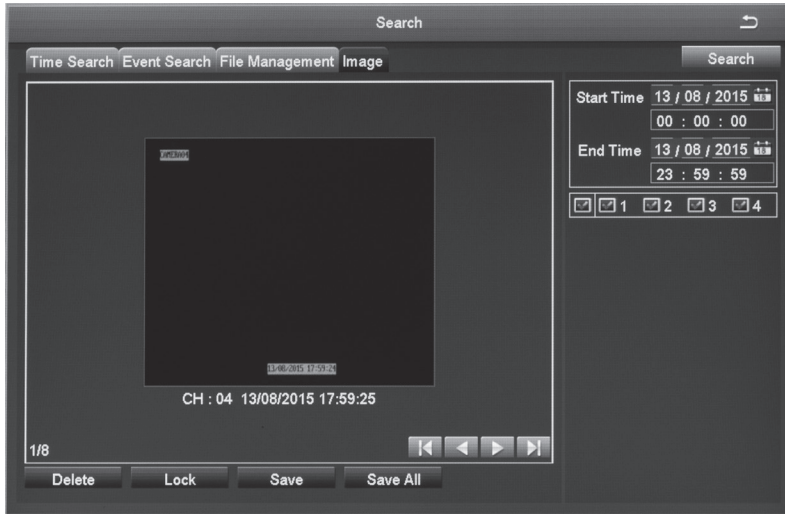
1. On the right side of the screen, there is a calendar and a list of cameras. Select cameras to search and then select a specific day to search on calendar. Select *SEARCH*.
2. The left side of the screen displays a simple timeline of all files recorded that day for the specified camera(s). Click in any block of time to set that as the playback start time. Select ► to view that file.
3. The video plays back in full screen for that search from the time selected. Icons on the playback bar allow you to control the video



Icons on the playback bar allow you to control the video.

Image Tab

The Image tab lets you set specific date/time parameters and then display the image from that date/time setting. Direction arrows let you move forward or backward through the saved video. Double-click the image to play back the video from the time when the image was captured.



FIELD	DESCRIPTION
<i>Search</i>	After setting up search parameters (Start and End times, selected cameras), select <i>Search</i> to initiate the actual search.
<i>Delete</i>	Select to delete the displayed image.
<i>Lock</i>	Select to lock the displayed image so it cannot be deleted or overwritten. (It can, however, be deleted during disk reformat.)
<i>Save</i>	Save the current image to a removable storage device.
<i>Save All</i>	Save all captured images to a removable storage device. (Maximum images saved = 2000.)

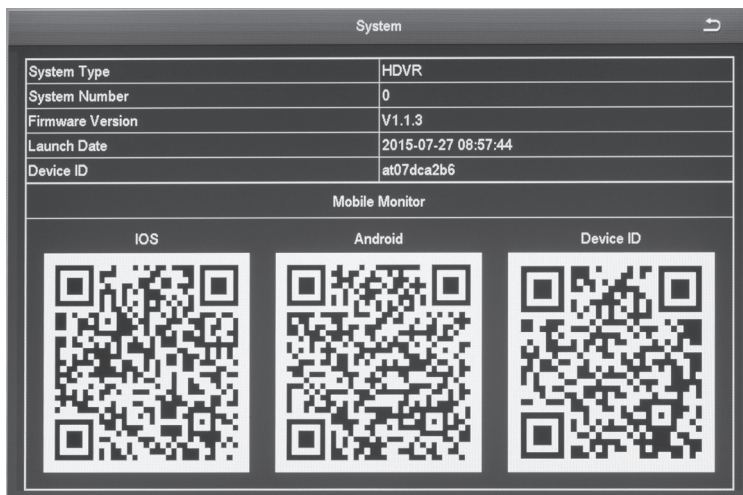
INFORMATION ICON

Select this icon to find information about your system. The Information screen comprises 6 icons:

- System
- Event
- Log
- Network
- Online Users
- Exit

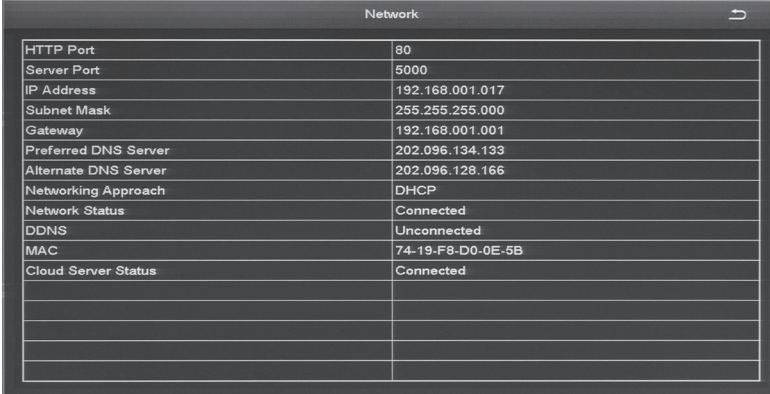
System Screen

Select the System icon and the *System* screen displays. This screen displays basic system information such as system type, firmware version, etc. It also provides QR codes for iOS and Android systems as well as a Device ID. Scan these codes to download the mobile client and your device's mobile phone port number when you are setting up the Uniden Guardian 365 app.



Network Screen

Select this icon to display the *Network* screen. This screen displays existing network parameters for the system.



Network	
HTTP Port	80
Server Port	5000
IP Address	192.168.001.017
Subnet Mask	255.255.255.000
Gateway	192.168.001.001
Preferred DNS Server	202.096.134.133
Alternate DNS Server	202.096.128.166
Networking Approach	DHCP
Network Status	Connected
DDNS	Unconnected
MAC	74-19-F8-D0-0E-5B
Cloud Server Status	Connected

Online Users list Screen

Select this icon to display information on any users currently connected to the DVR system.



Online User List		
User Name	IP	Status
admin	192.168.1.104	Online
admin	192.168.1.236	Online
admin	192.168.1.201	Online

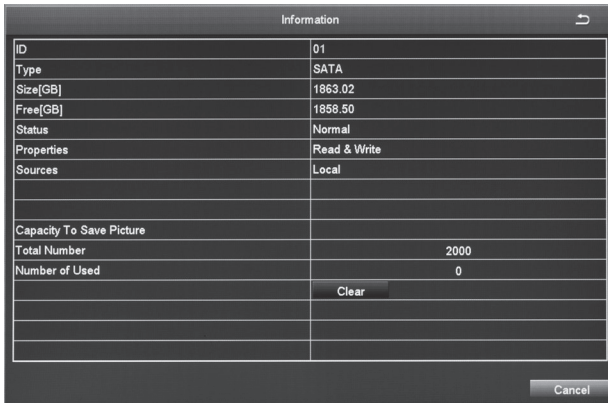
0/0

Refresh

Exit Screen

Select this icon to return to the *Main Menu* screen.

2. Select a drive to review (in the screen above, select 01). Select *Browse*. The Information screen displays for reviewing the hard drive.



3. Select *Cancel* to return to the *Disk Management* screen.

LOGOFF ICON

The Logoff icon lets you log out of the system. This does not shut down the system but only logs you (as a user) out of the system. When you select the Logoff icon, a confirmation screen displays.

SHUT DOWN ICON

Select the Shut Down icon save your data and changes and shut off the system. When you select the Shut Down icon, a confirmation screen displays.

FIRMWARE UPDATES

From time to time, Uniden may update its products' firmware to improve features, fix bugs, or otherwise improve the product. Uniden recommends checking for firmware updates every 6 months.

Check for firmware updates if you have service issues; your firmware may be out of date.

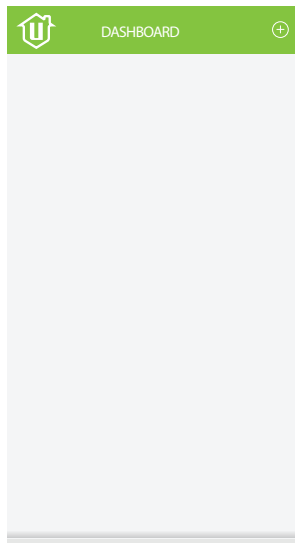
1. Go to *Main Menu/Information/System Information* to locate the current GDVR firmware version.
2. Go to uniden.com.au and look for the GDVR. Check your DVR's firmware number against the latest firmware download available.
3. If there is a firmware version that is later than the firmware version on your system, download it to your USB drive.
4. Power down your DVR.
5. Insert the USB drive into the USB port on the BACK of the receiver.
6. Power up your DVR. The system reboots and imports the new firmware.

REMOTE ACCESS

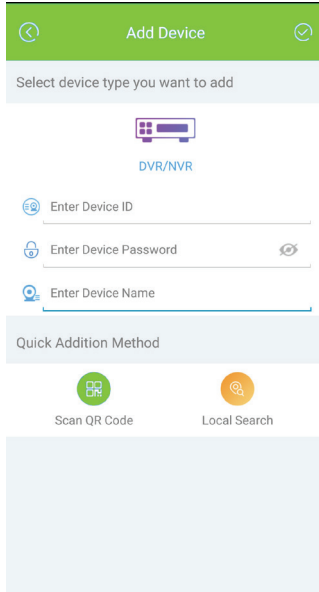
1. From the Apple App Store or Google Play, download and install the Guardian 365 app.
2. Open the app. The *Log In* screen appears. Tap *Register*. Complete the fields and then select *Register*.

A screenshot of the registration form in the Guardian 365 app. The form has a green header with the app's logo. Below the header are four input fields: 'Enter username', 'Enter E-mail', 'Enter Password', and 'Confirm Password'. A green 'Register' button is located at the bottom of the form.

3. The *Dashboard* screen displays.



4. Select the + icon at the top right corner to add your DVR system to the app. The *Add Device* screen displays.



5. Tap *Scan QR Code* and scan the QR code label on top of the DVR box or the applicable QR code from *Main Menu/ Information/System* screen on the monitor. This will add the DVR Device ID code into the app. Enter the Device password and name your DVR system. Tap the tick icon at the top right corner to add the device.
6. The *Device List* displays again, with your system now listed. Select your system and live video displays on your device.

TROUBLESHOOTING

After turning on, the DVR cannot switch on normally.

Possible reasons:

- The power supply is not correct.
- Switch power cable is not in good connection.
- Switch power is damaged.
- The program upgrading is wrong.
- The hard disk is damaged or something is wrong with the hard disk cables.
- Something is wrong with the front panel.
- The main board of the DVR is damaged.

The DVR reboots automatically or frequently stops working after booting up for a few minutes

Possible reasons:

- The input voltage is not stable or too low.
- The hard disk is damaged or the hard disk cables are broken.
- The power rating from wall supply is not correct.
- The front-end video signal is not stable.
- Poor heat dissipation, too much dust, bad running environment for the DVR.
- Something is wrong with the hardware of the DVR.

Cannot detect hard disk after switch on.

Possible reasons:

- The hard disk power supply cable is not connected.
- The cables of the hard disk are damaged.
- The hard disk is damaged.
- The SATA port of the main board is damaged.

No video output in single channel, multiple channels and all channels.

Possible reasons:

- Video format incorrect. Please ensure it is set correctly, PAL for Australia.
- The image brightness is all 0. Please restore the default setup.
- There is no video input signal or the signal is too weak.
- The hardware of the DVR is damaged.

Real-time image problems such as serious distortion of the image color or the brightness, etc.

Possible reasons:

- The DVR does not match with the impedance of the monitor.
- The video transmission distance is too far or the attenuation of video transmission cable is too big.
- The setting of color and brightness for the DVR is wrong.

Cannot find video files in local playback.

Possible reasons:

- Something is wrong with the data cable or the jumper of the hard disk
- The hard disk is damaged or no video data.
- Record function has been disabled. Please click Record icon under Setup to enable it.
- The video files you want to see have been overwritten after a recent disk format.

Blurred screen when viewing the local video.

Possible reasons:

- The video quality is set too low.
- The program data reads wrongly, always become normal after rebooting up the DVR.
- Something is wrong with the data cable or the jumper of the hard disk
- The hard disk is damaged.
- The hardware of the DVR is damaged.

The time display is wrong.

Possible reasons:

- The time setting is wrong. Day light saving time has not been set up properly.
- The battery is in bad connection or the voltage is too low.

The motion detection is not working

Possible reasons:

- The time period setting is not correct.
- The motion detection area setting is not appropriate.
- The sensitivity is too low.

Cannot login via web or client.

Possible reasons:

- ActiveX is held back.
- Something is wrong with network connection.
- Network setting problems

No image or having mosaic effect when preview network image or playback video files

Possible reasons:

- Network speed is inconsistent or too slow.
- The logged in user has no surveillance authority.
- The device has no video output. Camera disconnected.

Something wrong with the USB backup.

Possible reasons:

- The CPU is busy please stop recording and then go on backup.
- The data volume exceeds the backup storage capacity and it will cause burning errors
- The backup device is not compatible.
- The backup device is damaged.

Alerts is not working.

Possible reasons:

- The setting of the alert is not correct.

SPECIFICATION

System	GDVR204xx	GDVR208xx	
Pentaplex	View, Record, Playback backup, Remote Monitoring		
# Channels	4 BNC+2 IP	8 BNC+2 IP	
HDMI	Yes		
VGA Out	Yes		
USB Ports	2 Back 1 Front		
Video Input Resolution	up to 1080P		
Power	DC12V		
DISPLAY			
Live Display 4 Channel	full, quad		
Live Display 8 Channel		full, quad, 8, 9	
Live Display Speed (4 ch)	PAL: 15fps each channel		
Live Display Speed (8 ch)		PAL: 15fps each channel	
Motion Area Masking	22 x 15		
Sensitivity Levels	8		
FW Upgrade	USB, Internet		
Security	Set by admin		
Time Sync	NTP Server		
Recording			
Video Compression	H.264 Main Profile		
Audio Compression	G.711A		
Recording Resolution	up to 1080P		
Frame Rate	PAL:1-15 fps		
Recording Quality	256 - 2048kbps		

System	GDVR204xx	GDVR208xx
Substream Resolution	CIF	
Frame Rate	6fps	
Recording Schedule	Calendar style, by hour, day, recording mode, by channel	
Playback		
Playback Speed	Variable, up to 16x	
Search	By Time and Event	
Log Search	motion detection, configuration changes, connects/disconnects, video loss	
STORAGE AND ARCHIVE		
Storage	1000GB included	
Backup Media	up to 32GB USB Flash Drive FAT32	
Backup File Format	AVI	
CONNECTIVITY		
Connection	Uniden Cloud-based P2P server	
Supported OS	Windows	
Remote SW	PC	
Email Notification	With Snapshot	
SmartPhone, Tablet support	iPhone, iPad, Android	
DDNS	Free	
System Configuration	Uniden Cloud-based P2P server	
Network Protocol	HTTP, TCP/IP, UPNP, SMTP, NTP, DHCP, DNS, PPPOE, IP, P2P	
Network Interface	RJ-45, 10/100 Base TX	
Camera Specs		

SPECIFICATION

System	GDVR204xx	GDVR208xx
Image Sensor	1/2.7" CMOS, 2 Megapixel	
Video Format	PAL	
Effective Pixels	H: 1920 V: 1080	
Resolution	1080P	
Lens/Type	3.6 mm, Fixed	
Max Aperture	F2.0	
Viewing Angle	105°	
PIR detection Range	5~8m	
Scan	Progressive	
Sync System	Internal	
IR LED	Yes	
ICR	Yes	
Night Vision Range	20m Total Darkness	
Min Illumination	1.0 Lux w/o IR LED; 0 Lux w/ IR LED	
Video Output	BNC	
Cable	BNC/Power	
Cable Length	18m	
Power	12V, 200mA	
Power Consumption	<16W	
Operating Temp	-10°C to 45°C	
Operating Humidity	10% - 90% RH	
Environmental Rating	IP66	
Casing	Plastic	

ONE-YEAR LIMITED WARRANTY

GDVR 20 Series

Important:

Satisfactory evidence of the original purchase is required for warranty service. Please refer to our Uniden website for any details or warranty durations offered in addition to those contained below.

Warrantor:

The warrantor is Uniden Australia Pty Limited ABN 58 001 865 498 (“Uniden Aust”).

Terms of Warranty: Uniden Aust warrants to the original retail purchaser only that the GDVR 20 series (“the Product”), will be free from defects in materials and craftsmanship for the duration of the warranty period, subject to the limitations and exclusions set out below.

Warranty Period: This warranty to the original retail purchaser is only valid in the original country of purchase for a Product first purchased either in Australia or New Zealand and will expire, as indicated below, from the date of original retail sale.

Product	1 Year
Accessories	90 Days

- A. Damaged or not maintained in a reasonable manner or as recommended in the relevant Uniden Owner’s Manual;
- B. Modified, altered or used as part of any conversion kits, subassemblies or any configurations not sold by Uniden Aust;
- C. Improperly installed contrary to instructions contained in the relevant Owner’s Manual
- D. Repaired by someone other than an authorized Uniden Repair Agent in relation to a defect or malfunction covered by this warranty; or
- E. Used in conjunction with any equipment, parts or a system not manufactured by Uniden.

Parts Covered: This warranty covers the Product and included accessories.

User-generated Data: This warranty does not cover any claimed loss of or damage to user-generated data (including but without limitation phone numbers, addresses and images)that may be stored on your Product.

Statement of Remedy: If the Product is found not to conform to this warranty as stated above, the Warrantor, at its discretion, will either repair the defect or replace the Product without any charge for parts or service. This warranty does not include any reimbursement or payment of any consequential damages claimed to arise from a Product's failure to comply with the warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to and sits alongside your rights under either the COMPETITION AND CONSUMER ACT 2010 (Australia) or the CONSUMER GUARANTEES ACT (New Zealand) as the case may be, none of which can be excluded.

Procedure for Obtaining Warranty Service: Depending on the country in which the Product was first purchased, if you believe that your Product does not conform with this warranty, you should deliver the Product, together with satisfactory evidence of your original purchase (such as a legible copy of the sales docket) to Uniden. Please refer to the Uniden website for address details. You should contact Uniden regarding any compensation that may be payable for your expenses incurred in making a warranty claim. Prior to delivery, we recommend that you make a backup copy of any phone numbers, images or other data stored on your Product, in case it is lost or damaged during warranty service.

UNIDEN AUSTRALIA PTY LTD
Phone number: 1300 366 895
Email address: custservice@uniden.com.au

Uniden®

© 2018 Uniden Australia Pty Limited. Version 1.0