Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.  

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-800-444-3353 as soon as possible.  

Copyright© 2013 by Harbor Freight Tools®. All rights reserved. No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.  

WARNING  
Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.
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### WARNING SYMBOLS AND DEFINITIONS

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.</td>
</tr>
<tr>
<td>⚠️ DANGER</td>
<td>Indicates a hazardous situation which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td>⚠️ WARNING</td>
<td>Indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td>⚠️ CAUTION</td>
<td>Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</td>
</tr>
<tr>
<td>📘 NOTICE CAUTION</td>
<td>Addresses practices not related to personal injury.</td>
</tr>
</tbody>
</table>

### IMPORTANT SAFETY INFORMATION

⚠️ WARNING

Read all safety warnings and instructions. 
*Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.
Installation Precautions

1. Check federal, state and local surveillance laws before installing video and/or audio surveillance equipment.
2. Install only according to these instructions. Improper installation can create hazards.
3. Do not overreach when installing this product. Keep proper footing and balance at all times. This enables better control in unexpected situations.
5. Keep installation area clean and well lit.
6. Keep children and bystanders out of the area during installation.
7. Do not install when tired or when under the influence of alcohol, drugs or medication.

Use Precautions

1. This product is not a toy. Do not allow children to play with or near this item.
2. Use as intended only.
3. Do not modify.
4. Maintain product labels and nameplates. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

Electrical Safety

1. Power Adapter plugs must match the outlet. Never modify the plug in any way. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Do not expose DVR unit to rain or wet conditions. Water entering the DVR will increase the risk of electric shock.
3. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

Service

Have your DVR equipment serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the equipment is maintained.

Camera Safety Warnings

1. To prevent electric shock, do not attempt to disassemble Camera. There are no serviceable parts inside.
2. Use supplied Power Adapter only.
3. Do not expose the Power Adapter to rain or wet conditions. Water entering the Power Adapter will increase the risk of electric shock.
4. Do not abuse the Power Adapter cord. Never use the cord for unplugging the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. Handle Camera with care. Camera could be damaged by improper handling or storage.
DVR Safety Warnings

1. Maintain adequate airflow around DVR.
2. Use supplied Power Adapter only.
3. Do not expose the Power Adapter or DVR console to rain or wet conditions. Water entering the Power Adapter or DVR console will increase the risk of electric shock.
4. Do not abuse the Power Adapter cord. Never use the cord for unplugging the plug from the outlet. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

5. Maintain labels and nameplates on the unit. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

6. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)

7. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS.

Grounding

⚠️ WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:
Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Figure A: Outlets for 2-Prong Plug

1. The included Power Adapters do not require grounding.
2. The Power Adapters may be used in either of the 120 volt outlets shown in the preceding illustration. (See Figure A.)

Extension Cords

Note: Do not use an extension cord with the Power Adapters.

Symbology

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>Double Insulated</td>
</tr>
<tr>
<td>☑</td>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td>☑</td>
<td>Underwriters Laboratories, Inc.</td>
</tr>
<tr>
<td>V</td>
<td>Volts</td>
</tr>
<tr>
<td>~</td>
<td>Alternating Current</td>
</tr>
<tr>
<td>A</td>
<td>Amperes</td>
</tr>
</tbody>
</table>
### Specifications

<table>
<thead>
<tr>
<th><strong>DVR</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Drive</td>
<td>500 GB</td>
</tr>
<tr>
<td>Video Standard</td>
<td>NTSC / PAL</td>
</tr>
<tr>
<td>Video Codec</td>
<td>H.264</td>
</tr>
<tr>
<td>Video I/O</td>
<td>Input: 8 BNC Output: 2 BNC / 1 VGA</td>
</tr>
<tr>
<td>Audio Codec</td>
<td>G.711</td>
</tr>
<tr>
<td>Audio I/O</td>
<td>Input: 1 RCA Output: 1 RCA</td>
</tr>
<tr>
<td>Recording</td>
<td>Resolution CIF: 352 x 240; HD1: 704 x 240; D1: 704 x 480</td>
</tr>
<tr>
<td></td>
<td>Frame Rate Up to 30 fps each channel</td>
</tr>
<tr>
<td>Motion Detection</td>
<td>Manual / Schedule / Motion Detection / Remote</td>
</tr>
<tr>
<td>PTZ Interface</td>
<td>RS485 - Supports Pelco-D/P camera (sold separately)</td>
</tr>
<tr>
<td>Network Interface</td>
<td>RJ-45 10m/100m Ethernet Interface</td>
</tr>
<tr>
<td>USB Interface</td>
<td>USB 2.0</td>
</tr>
<tr>
<td>DVR Input Rating</td>
<td>12VDC / 2A</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32° - 131°F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Cameras</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Types</td>
<td>2 Cameras with fixed 6 mm lenses 2 Cameras with fixed 3.6 mm lenses</td>
</tr>
<tr>
<td>Horizontal Resolution</td>
<td>400 TVL</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>648H x 488V</td>
</tr>
<tr>
<td>Night Vision Type</td>
<td>Infrared LEDs with Low Light Sensor</td>
</tr>
<tr>
<td>Image Type</td>
<td>Daylight: Color Infrared: Black &amp; White</td>
</tr>
<tr>
<td>Infrared Wavelength</td>
<td>850nm</td>
</tr>
<tr>
<td>Infrared Distance</td>
<td>30 ft. (indoors)</td>
</tr>
<tr>
<td>Ingress Protection Rating</td>
<td>IP65 - Protected from low pressure water jets</td>
</tr>
<tr>
<td>Video Connector</td>
<td>BNC</td>
</tr>
<tr>
<td>Camera Input Rating</td>
<td>12VDC / 500 mA</td>
</tr>
<tr>
<td>Cable Length</td>
<td>60 ft.</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14° - 122°F</td>
</tr>
</tbody>
</table>
Set up - Before Use:

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Components and Controls

DVR Front Panel

![Figure B]

<table>
<thead>
<tr>
<th>1</th>
<th>Green Power Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Remote Control IR Receiver</td>
</tr>
<tr>
<td>3</td>
<td>Red Hard Disk Drive Activity Indicator</td>
</tr>
<tr>
<td>4</td>
<td>Search Recordings</td>
</tr>
<tr>
<td>5</td>
<td>Mute</td>
</tr>
<tr>
<td>6</td>
<td>Previous Channel</td>
</tr>
<tr>
<td>7</td>
<td>Next Channel</td>
</tr>
<tr>
<td>8</td>
<td>Toggle 4 and 9 Screen Displays</td>
</tr>
<tr>
<td>9</td>
<td>Menu Up / PTZ Up</td>
</tr>
<tr>
<td>10</td>
<td>PTZ Control Mode</td>
</tr>
<tr>
<td>11</td>
<td>Rewind / Activate Controls</td>
</tr>
<tr>
<td>12</td>
<td>Pause</td>
</tr>
<tr>
<td>13</td>
<td>Play</td>
</tr>
<tr>
<td>14</td>
<td>Fast Forward</td>
</tr>
<tr>
<td>15</td>
<td>Stop</td>
</tr>
<tr>
<td>16</td>
<td>Start Manual Recording</td>
</tr>
<tr>
<td>17</td>
<td>Open Menu / Escape / PTZ Left</td>
</tr>
<tr>
<td>18</td>
<td>Menu Down / PTZ Down</td>
</tr>
<tr>
<td>19</td>
<td>Confirm Selection / Edit Selected Setting / PTZ Right</td>
</tr>
</tbody>
</table>

**Note:** Controls for PTZ mode are italicized.

DVR Back Panel

![Figure C]

<table>
<thead>
<tr>
<th>1</th>
<th>BNC Video Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>RCA Audio Input</td>
</tr>
<tr>
<td>3</td>
<td>RJ45 LAN Ethernet Port</td>
</tr>
<tr>
<td>4</td>
<td>12VDC Power Input</td>
</tr>
<tr>
<td>5</td>
<td>BNC Video Output</td>
</tr>
<tr>
<td>6</td>
<td>RCA Audio Output</td>
</tr>
<tr>
<td>7</td>
<td>VGA Port</td>
</tr>
<tr>
<td>8</td>
<td>USB 2.0 Port</td>
</tr>
<tr>
<td>9</td>
<td>RS485 PTZ Connector</td>
</tr>
</tbody>
</table>
DVR Accessories

Remote Control Functions

| 1 - 8 | Select Channel |
| ALL  | Toggle 4 and 9 Screen Displays |
| MENU | Open Menu |
| MUTE | Mute |
| SUBMENU | Open Pop-Up Menu |
| ▲    | Menu Up |
| ▼    | Menu Down |
| ◄    | Menu Left |
| ►    | Menu Right |
| SEL  | Confirm Selected Operation |
| ◄◄  | Rewind |
| ►►  | Play / Search Records |
| ●    | Fast Forward |
| •    | Record |
| ll   | Pause |
| ■    | Stop |

Note: 2 AAA batteries included.

Figure D

Camera and Accessories

Figure E
Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Use the following flow charts to help make the cable connections, navigate the system and set up or change the unit settings. Refer to the individual setup sections in this manual for detailed instructions on specific tasks.

INITIAL SETUP
Physical Connections

1. Connect Monitor
2. Connect Cameras
3. Connect Mouse
4. Connect Power
5. Mount Cameras

Note: Monitor and Surge Protector sold separately.
Set Date and Time

In DVR Main Menu
Select System

Set Date and Time

Select General

Click Apply then OK

Set Recording Mode

In DVR Main Menu
Select Record

Select Schedule

Select Channel and Day of Week

Select boxes for Normal and Motion

Repeat for all Days and all Channels

Click Apply then OK

Motion Detection Settings

In DVR Main Menu
Select Alarm

Select Motion

Select Channel

Select Area

Set Sensitivity Level

Select which Channels will record

Set Buzzer for audible alarm

Click Apply then OK

See Main Settings on Page 17

See Recording Schedule on Page 18

See Motion Detection on Page 19
Local Area Network (LAN) Setup

1. Ensure you have a Windows® PC with Internet Explorer® and a Router before proceeding.

2. Connect DVR to Router via Ethernet Cable (Sold Separately).

3. From DVR Main Menu select Network > Network Type = Static.

4. Find the Router’s LAN settings:
   - 1. Subnet Mask
   - 2. Default Gateway (Router’s IP Address)

5. In DVR Network > Network change settings:
   - 1. Client Port: 3000
   - 2. HTTP Port: 3001
   - 3. New IP Address
   - 4. Subnet Mask you wrote down
   - 5. Default Gateway you wrote down
   - 6. DNS1 same as Gateway

   Change last 3 digits to a number between 200 and 255
   Change last 3 digits to a number between 100 and 255

6. Click Apply then OK to save changes.

7. Allow ActiveX Control to install. You may need to adjust the settings in Internet Explorer® by adding the http address to Trusted Sites and modifying ActiveX controls to allow installation.

8. After ActiveX Control installs, Log in to DVR with User Name and Password.

9. Open Internet Explorer®.

   In address bar, type in DVR’s IP Address and HTTP Port:
   (where x = IP Address and 3001 = HTTP Port)
   Press Enter.

   Allow ActiveX Control to install.

10. After restart, on DVR go to Network > Network to view settings.

   In DVR Main Menu select System
   Select Users
   Set User Name and Password
   Click Apply then OK

   After restart, DVR will prompt to save changes. Click Exit, DVR will prompt to restart. Click OK.

   Do you have a Windows® PC with Internet Explorer® and a Router?
Set up LAN according to instructions above.

Open Internet Explorer®. In address bar, type in Default Gateway (from LAN Setup above). Example: xxx.xxx.xxx.xxx Press Enter.

Set start port to 3000 and end port to 3002. Set up both UDP and TCP protocols if the option is given.

Log in to the Router and go to Port Forwarding or Applications and Gaming.

Find the Router’s IP Address by going to whatismyip.com. Write it down.

On remote computer, Open Internet Explorer®. In address bar, type in Router’s IP Address and HTTP Port (from LAN Setup above): http://xx.xxx.xxx.xxx:3001 (where x = IP Address and 3001 = HTTP Port) Press Enter.

Allow ActiveX Control to install. You may need to adjust the settings in Internet Explorer® by adding the http address to Trusted Sites and modifying ActiveX controls to allow installation.

After ActiveX Control installs, Log in to DVR with User Name and Password (from LAN Setup above).

In DVR Main Menu Select Network then Mobile

Set User Name and Password

Set Mobile Port to 3002

Click Apply then OK

Insert supplied CD into computer and look in Mobile Software folder for instructions.
Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Check federal, state and local surveillance laws before installing video and/or audio surveillance equipment. Connect and test all equipment and camera locations before installing cameras. Use a surge protector (sold separately) to protect equipment.

**INITIAL SETUP**

**Physical Connections**

1. Connect Monitor
2. Connect Cameras
3. Connect Mouse
4. Connect Power
5. Mount Cameras

**Note:** Monitor and Surge Protector sold separately.
Designate Location for DVR and Monitor

When planning location for DVR and Monitor:

1. Choose a clean, dry location indoors with a 120V outlet nearby.
2. For network viewing, make sure the DVR is located close to a router.
3. Take into consideration the length of the Camera Cables.
   **CAUTION!** Route the Cables so as to avoid a tripping hazard.
4. Make sure location will remain within Operating Temperature.

**A. Connect Monitor**

Connect TV or PC monitor (sold separately) to DVR using BNC to RCA cable (included) or VGA cable (sold separately).

**B. Connect Cameras**

1. Connect Video (Yellow) from Cameras to Cables.
2. Connect Power (Red) from Cameras to Cables.
3. Connect Video (Yellow) from Cables to DVR.
4. Connect Power from Cables to Splitter.
5. Connect Splitter to Camera Adapter.

**C. Connect Mouse**

Plug the Mouse in one of the USB ports.

**D. Connect Power**

**Note:** Only use supplied Power Adapters and a surge protector (sold separately).

1. Plug Monitor into surge protector.
2. Plug DVR Adapter into Power Input on DVR.
3. Plug DVR Adapter plug into surge protector.
4. Plug Camera Splitter plug into surge protector.
5. Plug surge protector into 120V outlet.
   **CAUTION!** The Power Adapters MUST be plugged in indoors in a clean, dry location.
6. System will boot up.

**Initializing**

1. After boot up, system will initialize.
2. After initialization is complete, system will beep, then display Main Interface with live images from cameras.
3. Press and hold the **REW** button until it beeps to activate the controls.
4. Make sure that all cameras are operating.
Cameras - Before Mounting

1. Place Cameras in intended locations. When planning mounting locations and angles:
   a. Take into consideration the length of the Cables.
   b. Choose locations high enough so that they are out of reach of children, but still cover the desired viewing areas.
   c. Verify that installation surfaces have no hidden utility lines before drilling or driving screws.
   d. To avoid mounting the Cameras upside down, make sure the Hood is above the Lens.
   e. Make sure no strong light will shine directly into Camera Lenses.

CAUTION! Route the Cables so as to avoid a tripping hazard.

E. Mount Cameras

Using the Base as a template, mark locations of mounting holes on mounting surface.

Note: Route Cable through slot on Base to keep Base flush with mounting surface while marking holes.

Solid Surface

1. Using a drill bit slightly smaller than the Screws, drill pilot holes into the marked locations.
   Note: Route Cable through slot on Base to keep Base flush with mounting surface.

2. Position Camera so that mounting holes align with pilot holes.

3. Drive Screws through mounting holes in Base and into pilot holes until the Camera is securely attached to the mounting surface.

Hollow Surface

1. Using a drill bit slightly smaller than the Anchors, drill holes in the marked locations.
   Note: Route Cable through slot on Base to keep Base flush with mounting surface.

2. Tap Anchors into the holes until they are almost flush with mounting surface.

3. Position Camera so that mounting holes align with anchors.

4. Drive Screws through mounting holes in Base and into anchors until the Camera is securely attached to the mounting surface.

Camera Adjustment

1. Loosen Adjustment Wheel, rotate Camera as needed, then tighten Adjustment Wheel.

2. Loosen Adjustment Screw, tilt Camera as needed, then tighten Adjustment Screw.

Note: Only loosen Adjustment Screw slightly, do not remove it.
DVR Settings

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: In all of the following instructions, the Mouse will be used for navigating all system menus.

Pop-Up Menu

To access Pop-Up Menu, right-click anywhere on screen or hover over bottom of screen.

![Diagram of Pop-Up Menu]

<table>
<thead>
<tr>
<th>Main Menu</th>
<th>Shortcut To Main Menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-way Split Screen</td>
<td>Display Up To 4 Live Images</td>
</tr>
<tr>
<td>9-way Split Screen</td>
<td>Display Up To 8 Live Images</td>
</tr>
<tr>
<td>PTZ</td>
<td>Go To PTZ Controls</td>
</tr>
<tr>
<td>Start Cruise</td>
<td>Start programmed PTZ Cruise</td>
</tr>
<tr>
<td>Zoom</td>
<td>Zoom PTZ Camera</td>
</tr>
<tr>
<td>Record Search</td>
<td>Go To Record Search</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Record/Stop Record</th>
<th>Start Recording/Stop Recording</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start SEQ/Stop SEQ</td>
<td>Rotate Through Live Images/Stop Rotation</td>
</tr>
<tr>
<td>PIPx1</td>
<td>Picture In Picture</td>
</tr>
<tr>
<td>PIPx2</td>
<td>Two Pictures In Picture</td>
</tr>
<tr>
<td>Volume</td>
<td>Sound Level</td>
</tr>
</tbody>
</table>

Main Menu

To access Main Menu, bring up Pop-up menu then click on Main Menu icon.

![Diagram of Main Menu]
Main Settings

System > General

Set Date and Time, Daylight Saving Time, Network Time Protocol, Language, and Video Format

Changes will not be saved unless you click Apply then OK!
Click Exit to return to System and discard unsaved changes.

7. NTP (Network Time Protocol) Setup:
Click to open setup window.

Note: This feature sets the internal clock from an Internet server. The DVR must be connected to the Internet for this feature to work. (See Local Area Network (LAN) Setup on page 28.)

8. Language:
Select preferred language.

9. Video Format:
Default is NTSC, which is the standard in the United States. Leave it set to NTSC.

10. Menu Time Out:
Select how long menu will display.

Changes will not be saved unless you click Apply then OK!
Click Exit to return to System and discard unsaved changes.
Set Recording Mode

Recording Schedule

Record > Schedule

![Figure N]

1. **Channel:** Select Channel.
2. **Week:** Select day of week.
3. **Schedule Table:**
   a. 00 - 23 represent 24 hours of the day.
   b. Two rows of boxes below represent corresponding hours.
   
   • **Top row:** When selected, boxes will turn green to indicate *Normal* continuous recording. This is the Default setting.
   
   • **Bottom row:** When selected, boxes will turn yellow to indicate recording will be triggered by *Motion Detection*.

   c. **Copy (Date):** Copy parameters from one Day to other Days.
   
   d. Select Day to copy from.
   
   e. Select Day to copy to or select **ALL**.
   
   f. Click **Copy**, then click **OK**.

4. **Copy (Channel):** Copy parameters from one Channel to other Channels.
   a. Select Channel to copy from.
   
   b. Select Channel to copy to or select **ALL**.
   
   c. Click **Copy**, then click **OK**.

   **Changes will not be saved unless you click Apply then OK!**

   **Click Exit to return to System and discard unsaved changes.**
Motion Detection

Alarm > Motion

Set up parameters for triggering recordings by Motion Detection.

1. **Channel**: Select Channel.
2. **Enable**: Select **Enable** or **Disable**.
3. **Area**: Click to set area where motion is detected.
4. **Sensitivity**: Set sensitivity level.
5. **Show Message**: Check box to show message on screen when Motion Detection is triggered.
6. **Buzzer**: Check box to hear audible alarm when Motion Detection is triggered.
7. **Send Email**: Check box to have email sent when Motion Detection is triggered.

**Note**: The DVR must be connected to the Internet for this function to work. (See Wide Area Network (WAN) Setup on page 30).

8. **Full Screen**: Check box so that when Motion Detection is triggered, the Camera’s view will display in full screen mode.
9. **Record Channel**: Check box to Enable/Disable motion recording. Highlight Channels to link recording to this Channel’s motion alarm.
10. **Post Recording**: Select how long recording will continue after motion is no longer detected.
11. **Copy**: Copy parameters from one Channel to other Channels.
   a. Select Channel to copy from.
   b. Select Channel to copy to or select **ALL**.
   c. Click **Copy**, then click **OK**.

   Changes will not be saved unless you click **Apply** then **OK**!

   **Click Exit to return to System and discard unsaved changes.**
Users

System > Users

The system supports one administrator and six users. The administrator has permission to perform all activities and is authorized to set up permissions for all other users.

Set up Administrator

1. Select admin and click Edit.
2. User Name: Set User Name (up to 8 characters).
3. Password Enable: Select Enable or Disable.

Note: When Password is Enabled, a key icon will appear on Pop-Up Menu. Click on key to enable Menu Lock.
   a. Password: Enter Password (must be 6 numbers).
   b. Confirm: Enter Password again to confirm.

   Changes will not be saved unless you click Apply then OK!

   Click Exit to return to System and discard unsaved changes.

Set up additional Users

4. Select user1 then click Edit.
5. User Enable: Select Enable.
6. User Name: Enter User Name (up to 8 characters).
7. Password Enable: Select Enable or Disable.
   a. Password: Enter Password (must be 6 numbers).
   b. Confirm: Enter Password again to confirm.

   Changes will not be saved unless you click Apply then OK!

   Click Exit to return to System and discard unsaved changes.

8. Select User that was just named and click Permission.
   a. Click in boxes to select specific permissions.
   b. Click All to select all permissions.
   c. Click Clear to remove all permissions.

Set up Administrator

1. Select admin and click Edit.
2. User Name: Set User Name (up to 8 characters).
3. Password Enable: Select Enable or Disable.

Note: When Password is Enabled, a key icon will appear on Pop-Up Menu. Click on key to enable Menu Lock.
   a. Password: Enter Password (must be 6 numbers).
   b. Confirm: Enter Password again to confirm.

   Changes will not be saved unless you click Apply then OK!

   Click Exit to return to System and discard unsaved changes.

Set up additional Users

4. Select user1 then click Edit.
5. User Enable: Select Enable.
6. User Name: Enter User Name (up to 8 characters).
7. Password Enable: Select Enable or Disable.
   a. Password: Enter Password (must be 6 numbers).
   b. Confirm: Enter Password again to confirm.

   Changes will not be saved unless you click Apply then OK!

   Click Exit to return to System and discard unsaved changes.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

9. Repeat steps above for other Users.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.
System Information

System > Version

View and Set Device Information.

1. **Device Name**: Set Device Name (up to 21 characters).
2. **Device ID**: Set Device ID number (up to 6 numbers)
3. **Device Type**: Cannot modify.
4. **Hardware Ver**: Cannot modify.
5. **Software Ver**: Cannot modify.
6. **IE Client Ver**: Cannot modify.
7. **MAC Add**: Media Access Control address.
   MAC Address needs to be changed when multiple DVRs are on the same network.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

Display Settings

Display > Live

Set how Camera information will display.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

1. **Channel**: Select Channel.
2. **Name**: Set Channel name (up to 8 characters).
3. **Position**: Select position where Channel Name will appear on the screen.
   a. **U-L**: Upper Left
   b. **D-L**: Lower Left.
   c. **U-R**: Upper Right.
   d. **D-R**: Lower Right.
   e. **Close**: No name will appear.
4. **Color**: Click Setup to adjust Hue, Brightness, Contrast, and Saturation.
5. **Conceal**: Enable to conceal live image.
6. **Show Time**: Toggles date and time display.
7. **Record Time**: Enable to record date and time.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

8. **Copy**: Copy parameters from one Channel to other Channels.
   a. Select Channel to copy from.
   b. Select Channel to copy to or select **ALL**.
   c. Click **Copy**, then click **OK**.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.
Display Output

Display > Output

![Figure U](image)

1. **Rotate Time**: Amount of time, in seconds, that each Channel will display in Live View when Start SEQ is activated from the Pop-Up Menu.
2. **VGA Resolution**: Select resolution.
3. **Init. DEV**: Select Video Output port.
4. **Transparency**: Select Transparency of the Menus.
5. **Volume**: Press Volume button to open Volume Control.

![Figure V](image)

- Set **Volume** (if audio hooked up).
- Check **Mute** box to turn off sound.
- Click save icon on right to save settings, then click **OK**.
- Right click to return to **Output**.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

Privacy Zones

Display > Privacy Zone

 ![Figure W](image)

1. **Channel**: Select Channel.
2. **Privacy Zone**: Toggles Privacy Zones.
3. **Area Setup**: Select up to 4 areas to block.
4. **Mask Area**: Select Setup, then click and drag green square(s) to move and resize areas to be blocked.
5. **Right click anywhere to return to Privacy Zone**.

Click Apply then OK to save changes!

6. Repeat steps above for other Channels.
7. **Copy**: Copy parameters from one Channel to other Channels.
   - Select Channel to copy from.
   - Select Channel to copy to or select **ALL**.
   - Click **Copy**, then click **OK**.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.
Recording Parameters

Record > Rec Para

4. **PreRecord**: Enable to start Motion Detection recordings immediately before motion is detected. *Keep this enabled in most circumstances.*

5. **Copy**: Copy parameters from one Channel to other Channels.
   - a. Select Channel to copy from.
   - b. Select Channel to copy to or select **ALL**.
   - c. Click **Copy**, then click **OK**.
   
   *Changes will not be saved unless you click Apply then OK!*

   *Click Exit to return to System and discard unsaved changes.*

---

**Video Stream**

Record > MainStream

Set Resolution, Frames Per Second, Bitrate, Audio.

1. **Resolution**: Select **CIF**, **D1** or **HD1**.

2. **Fps (Frames per second)**: Set as desired.

3. **Bitrate (Kbps)**: Set as desired.

4. **Audio**: Check box to record audio if microphone (sold separately) has been connected. This is only available on Channel 1.

5. **Copy**: Copy parameters from one Channel to other Channels.
   - a. Select Channel to copy from.
   - b. Select Channel to copy to or select **ALL**.
   - c. Click **Copy**, then click **OK**.

   *Changes will not be saved unless you click Apply then OK!*

   *Click Exit to return to System and discard unsaved changes.*

---

**Figure X**

1. **Channel**: Select Channel.

2. **Record**: Select **Enable** or **Disable**.

3. **Pack Duration**: Select continuous recording time for each pack (recording segment).

**Figure Y**

- **Resolution**: Select **CIF**, **D1** or **HD1**.
- **Fps (Frames per second)**: Set as desired.
- **Bitrate (Kbps)**: Set as desired.
- **Audio**: Check box to record audio if microphone (sold separately) has been connected. This is only available on Channel 1.

**Figure Z**

<table>
<thead>
<tr>
<th>Resolution</th>
<th>Quality</th>
<th>Fps Range</th>
<th>Bitrate Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIF - 352X240</td>
<td>Low</td>
<td>1 - 30</td>
<td>224 - 768</td>
</tr>
<tr>
<td>HDI - 704x240</td>
<td>Better</td>
<td>1 - 15</td>
<td>80 - 448</td>
</tr>
<tr>
<td>D1 - 704x480</td>
<td>Best</td>
<td>1 - 7</td>
<td>80 - 448</td>
</tr>
</tbody>
</table>
Maintain Hard Drive

Advanced > Maintain

Set up Reboot Cycle, Update Software, Manually Restore Default Settings, Reboot And Shut Down.

b. Every Week: Enter day of week and time for reboot.
c. Every Month: Enter day of month and time for reboot.

3. Update: Used for updating firmware using a USB drive. **Do not update firmware unless device is not working properly and Customer Service instructs you to do so.**

4. Load Default: Click to restore all system default settings.

5. Reboot: Click to manually reboot system.

6. Shut Down: Click to manually shut down system.

   **Changes will not be saved unless you click Apply then OK!**

   **Click Exit to return to System and discard unsaved changes.**

Alerts

Advanced > Events

Set up alerts for when the hard drive has no disk space, when there is a disk error or a camera loses video.

1. Event Type: Select Event type.

2. Enable: Check box to Enable or uncheck to Disable.

3. Show Message: Check box to show a message or uncheck to not show a message.

4. Buzzer: Click drop-down box to choose Buzzer duration or turn Buzzer off.

5. Send Email: Check box to send an email or uncheck to not send an email.

   **Note:** The DVR must be connected to the Internet for email function to work. (See Network > Network on page 22.)

   **Changes will not be saved unless you click Apply then OK!**

   **Click Exit to return to System and discard unsaved changes.**
Search Recordings

Search > Record Search

Note: The Playback Control Bar will automatically disappear when the mouse stops moving. To recall Playback Control Bar, move the mouse.

Figure AE

<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔁▶️</td>
<td>Rewind 2X, 4X, 8X, 16X</td>
</tr>
<tr>
<td>⏯️</td>
<td>Play 1/2, 1/4, 1/8 speed</td>
</tr>
<tr>
<td>▶️</td>
<td>Play normal speed</td>
</tr>
<tr>
<td>❯</td>
<td>Pause</td>
</tr>
<tr>
<td>❯(sym)</td>
<td>Fast Forward 2X, 4X, 8X, 16X</td>
</tr>
<tr>
<td>MUTE</td>
<td>Turn off sound (if audio hooked up)</td>
</tr>
<tr>
<td>Volume</td>
<td>Control volume (if audio hooked up)</td>
</tr>
<tr>
<td>X</td>
<td>Exit recording</td>
</tr>
</tbody>
</table>

Figure AF

To exit recording, click X on Playback Control Bar, then click Exit to return to Record Search.

Search by Time

To find a specific event when the date and time of event are known:

1. **Search Date:** Enter the date of the recording.
2. **Replay Time:** Enter the time of the recording.
3. Click **Play** to bring up the channel list.
4. **Select Channel(s):** Click on channel boxes, then click **Play**.
5. The Playback Control Bar will pop-up on bottom of screen. (See Figure AE and Figure AF above.)

Note: To recall Playback Control Bar, move the mouse.

To exit recording, click X on Playback Control Bar, then click Exit to return to Record Search.

Search by Date

1. **Search Date:** Enter desired search date and click **Search** to populate table.
   - a. Click on box for date to search.
   - b. Click on box for hour to search. This will bring up the channel list.
2. **Select Channel(s):** Click on box(es) for channel(s) to view, then click **Play**.
3. The Playback Control Bar will pop-up on bottom of screen.

Figure AD

<table>
<thead>
<tr>
<th>CH</th>
<th>Select channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search Date</td>
<td>Select date</td>
</tr>
<tr>
<td>Search</td>
<td>Click to populate Record State table</td>
</tr>
<tr>
<td>Replay Time</td>
<td>Select time of day</td>
</tr>
<tr>
<td>Play</td>
<td>Click to play selected recording</td>
</tr>
</tbody>
</table>

Record State table

- (Month) shows all days in selected month where there are recordings
- **Green** = Normal recording
- **Red** = Motion Detection recording
- (Date) Shows all hours in selected day where there are recordings

Event Search

Go to **Event Search** (See Backup Recordings section)
Backup Recordings

Search > Event Search

Playback and Back up recordings.

1. **Search Date**: Set date to search.
2. **CH**: Select Channel.
3. **Search Time**: Enter beginning search time in first box and ending search time in second box.
4. **TYPE**: Select All, Normal, or Alarm recordings.
   a. **Normal** recordings are scheduled or manual recordings.
   b. **Alarm** recordings are recordings started automatically by motion detection.
5. Click **Search** to populate table.
6. Select recordings to backup:
   a. To mark all recordings for backup, click **ALL**.
   b. To mark recordings for backup, click on **BAK** box for each selection.
   c. Click **Backup** and click **OK** to backup selected recordings.

---

Figure AG

<table>
<thead>
<tr>
<th>Search Date</th>
<th>Enter date</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH</td>
<td>Select Channel</td>
</tr>
<tr>
<td>Search Time</td>
<td>Set start and stop times</td>
</tr>
<tr>
<td>TYPE</td>
<td>Select type of event</td>
</tr>
<tr>
<td>BAK</td>
<td>Check box for each recording to back up</td>
</tr>
<tr>
<td>◀</td>
<td>Go to first set of recordings</td>
</tr>
<tr>
<td>▼</td>
<td>Go to previous set of recordings</td>
</tr>
<tr>
<td>▶</td>
<td>Go to next set of recordings</td>
</tr>
<tr>
<td>▶</td>
<td></td>
</tr>
<tr>
<td>All</td>
<td>Select all recordings in current set</td>
</tr>
<tr>
<td>Inverse</td>
<td>Deselect selected recordings and select opposite recordings</td>
</tr>
<tr>
<td>Search</td>
<td>Search for selected recordings</td>
</tr>
<tr>
<td>Backup</td>
<td>Perform Back up</td>
</tr>
<tr>
<td>Exit</td>
<td>Go back to Record Search</td>
</tr>
</tbody>
</table>

---

Search > Backup

Back up recordings.

3. **Search Time**: Enter beginning search time in first box and ending search time in second box.
4. **TYPE**: Select All, Normal, or Alarm recordings.
   a. **Normal** recordings are scheduled or manual recordings.
   b. **Alarm** recordings are recordings started automatically by motion detection.
5. Click **Search** to populate table.
6. Select recordings to backup:
   a. To mark all recordings for backup, click **ALL**.
   b. To mark recordings for backup, click on **BAK** box for each selection.
   c. Click **Backup** and click **OK** to backup selected recordings.
Search > Log

1. **Log Type**: Select Log type.
2. **Start Time (Date)**: Enter start date.
3. **End Time (Date)**: Enter end date.
4. Click **Search** to populate table.
5. Click **Backup** to backup log file, then click OK when backup finished.

Format Drives

Device > HDD

![Format Drives Diagram](image)

<table>
<thead>
<tr>
<th>No.</th>
<th>ID number of drives</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>OK - Hard drive installed</td>
</tr>
<tr>
<td></td>
<td>No disk - No hard drive installed</td>
</tr>
<tr>
<td>Free/total</td>
<td>Free Space/Total Space</td>
</tr>
<tr>
<td>Free Time</td>
<td>Recording time available</td>
</tr>
</tbody>
</table>

1. **Overwrite**: Select how long to save recordings on Hard Disk Drive before overwriting.

**Note**: The drive will save recordings as long as possible before overwriting while in **Auto** mode. If **Close** is selected, the drive will not be overwritten.

2. **Format Hard Drive**:
   a. Click **Select** box for drive to format.
   b. Click **Format HDD**.
   c. Click **OK**.
   d. When formatting is finished, click **OK**.

3. **Format USB Drive**:
   a. Install drive into USB port.
   b. Click **Format USB**.
   c. Click **OK**.
   d. When formatting is finished, click **OK**.

Changes will not be saved unless you click **Apply** then **OK**!

Click Exit to return to System and discard unsaved changes.

PTZ Camera

Device > PTZSettings for PTZ (Pan, Tilt, Zoom) camera (sold separately).

Input information according to PTZ camera manufacturer instructions.
Local Area Network (LAN) Setup

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: This setup allows you to connect to the DVR through the Internet within your home network. This setup requires the use of a Windows® PC (sold separately) with Internet Explorer®, an Ethernet Cable (sold separately) and a Router (sold separately).

Network > Network

Use the chart below to record the information you will need to set up your LAN.

<table>
<thead>
<tr>
<th>Subnet Mask</th>
<th>Default Gateway (Router’s IP Address)</th>
<th>New DVR IP Address</th>
<th>DVR’s LAN Address</th>
</tr>
</thead>
</table>

Figure AN

1. Connect DVR to Router via Ethernet Cable.
2. On PC, go to Start menu, then click Run.
   a. Type “cmd” then click OK. A DOS window will open.
   b. Type “ipconfig” then press Enter.
   c. You will see the Local Area Connection of the Router.
   d. In the chart above, write down the numbers corresponding to:
      • Subnet Mask
      • Default Gateway (Router’s IP Address).
3. Create a New DVR IP Address:
   a. If last 3 digits of Default Gateway are 0-99, change last 3 digits to a number between 100 and 255.
   b. If last 3 digits of Default Gateway are 100 or more, change last 3 digits to a number between 200 and 255.
   c. New DVR IP Address will be xxx.xxx.xxx.yyy where x = first 3 sets of current Default Gateway (Router’s IP Address) and y = new set created in 3.a. or b.
   d. Write the New DVR IP Address in the chart above.
4. On DVR, go to Network > Network:
   a. Change Type to Static.
   b. Change Client Port to 3000.
   c. Change HTTP Port to 3001.
   d. Change IP Address to the New DVR IP Address from the chart.
   e. Change Subnet Mask and (Default) Gateway to the ones from the chart.
   f. Change DNS1 to be the same as Gateway.
   g. Click Apply, then Exit. DVR will prompt restart. Click OK.
5. After restart, go back to Network > Network to view the settings.
6. Open Internet Explorer® and type in the IP Address and HTTP Port in the address bar:
      where x = IP Address and 3001 = HTTP Port.
      Write this address on chart under DVR’s LAN Address.
   b. Press Enter.
   c. Allow ActiveX control to install.
    Note: You may need to adjust the settings in Internet Explorer® by adding the http address to Trusted Sites and modifying ActiveX controls.
7. After ActiveX Control installs, Log in to DVR using User DVR’s User Name and Password.
8. The DVR can now be controlled by a computer in your home network.
Set up Remote Video Stream

Network > SubStream

Select channels to export through network connection.

Figure AP

Set up Email Capability

Network > Email

Enables email to be sent when Motion Detection is triggered.

Note: Follow instructions from email provider to set up this feature.

1. **Sender Email**: The email address that the notification will be sent from.
2. **Sender Pwd**: The password for the email account that the notification will be sent from.
3. **Receiver Email**: The email address that the notification will be sent to.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.

Set up Smartphone Capability

Network > Mobile

1. **User Name**: Set User Name.
2. **Password**: Set Password.
3. **Mobile Port**: Set Port to 3002.

Changes will not be saved unless you click Apply then OK!

Click Exit to return to System and discard unsaved changes.
Wide Area Network (WAN) Setup

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

This setup allows you to connect to the DVR from a remote computer or smartphone. This is an advanced setup. You may need to consult your Router’s Manual and/or call the manufacturer or Internet Service Provider for instructions on Port Forwarding.

1. Set up Local Area Network first.

2. Open Internet Explorer® and type the Default Gateway (Router’s IP Address) in the address bar and press Enter. This will bring up your Router’s Log in.

3. Login to your Router and check your connection type.
   a. If Static, the IP Address will not change and your connection will remain stable. Proceed to Port Forwarding.
   b. If DHCP, the IP Address will change at some point in time. When it changes you will then need to use the new IP Address to connect to the DVR. Other options are:
      • Contact your ISP and request a Static IP Address, for which there may be a charge.
      • Set up a Dynamic Domain Naming System. This is outside the scope of this manual. Settings can be accessed on the Network > DDNS tab.

4. Go to Port Forwarding or Applications and Gaming.

5. Set start port to 3000 and end port to 3002. Set up both UDP and TCP protocols if the option is given.

6. Open Internet Explorer® and type in the Router’s IP Address and HTTP Port:
      where x = IP Address and y = HTTP Port
      This is the DVR’s Public IP Address, write it below:

6. Open Internet Explorer® and type in the Router’s IP Address and HTTP Port:
      where x = IP Address and y = HTTP Port
      This is the DVR’s Public IP Address, write it below:

6. Open Internet Explorer® and type in the Router’s IP Address and HTTP Port:
      where x = IP Address and y = HTTP Port
      This is the DVR’s Public IP Address, write it below:

   b. Press Enter.
   c. Allow ActiveX control to install.

   Note: You may need to adjust the settings in Internet Explorer® by adding the http address to Trusted Sites and modifying ActiveX controls.

7. After ActiveX Control installs, Log in to DVR using User Name and Password.

8. The DVR can now be controlled by a remote computer or smartphone.
Software

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

The supplied CD contains the software needed to connect to the DVR and play back recordings on a computer or smartphone.

DVR Client

For use with a local or remote PC to set up connection to the DVR.

For local computer, the LAN needs to be set up first.
For remote computer, both the LAN and WAN need to be set up first.

<table>
<thead>
<tr>
<th>System Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
</tr>
<tr>
<td><strong>RAM</strong></td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
</tr>
<tr>
<td>Windows XP Professional®, Windows Vista®, Windows 7®, Windows 8®</td>
</tr>
<tr>
<td><strong>Disk Space</strong></td>
</tr>
</tbody>
</table>

**Installation**

1. Insert supplied CD into computer, open **Video_Client** and follow instructions to install the program.

2. Create Administrator User Name and Password.

3. **Video surveillance client** will open.

**Add DVR**

1. Click **Config** to open **Local parameter configuration** window.

2. Click on **Device manage**.

3. Right click on **Device List**, then click **Add Device**. This will open **Manually add the device** window.

   - **Device**: Assign name to DVR.
   - **Device IP**: 
     - LAN computer - use **DVR’s LAN Address** from chart on page 28.
     - Remote computer - use **DVR’s Public IP Address** from page 28.
   - **Client Port**: Enter **Client Port** from **Network > Network** settings on DVR.
   - **Channels**: Enter how many Cameras to view.
   - **User Name**: Enter User Name for DVR.
   - **Password**: Enter Password for DVR.
   - **Auto Login**: Enable automatic log in to the DVR when DVR Client is launched.

4. Exit out of **Local parameter configuration** window.

5. On **Device List**, right click on the DVR icon (the name you assigned to DVR) and click **Login**, then right click again and click **Open All channels**.

6. The DVR can now be controlled through the software.

**Note**: For more instructions, refer to **DvrClient User Manual** included on the supplied CD.
Video Player

For playing back recordings on a Windows® PC in H.264 format.
Insert supplied CD into computer, open Video_Client and follow instructions.

MAC Record Player

For playing back recordings on a MAC in H.264 format.
Insert supplied CD into computer, open MAC_Record_Player and follow instructions.

AVI Generator

For converting recordings from H.264 to AVI format.
Insert supplied CD into computer, open AVIGenerator and follow instructions.

Smartphone

For connecting to the DVR from a smartphone. To use this feature, the WAN needs to be set up first.

1. Insert supplied CD into computer and open Mobile Software folder for instructions according to phone type.  

Note: The phone's Unknown Sources setting MUST be enabled to allow installation. Depending on Android version, installed software and settings, additional software may be required to allow installation of viewing software.

2. Go to Network > Mobile to view the Mobile Port settings you will need.
Camera Maintenance

**WARNING**

**TO PREVENT SERIOUS INJURY FROM ELECTRIC SHOCK:**
Unplug the Power Adapter from its electrical outlet before inspection, maintenance, or cleaning.

1. **PERIODICALLY,** inspect the general condition of the Camera. Check for:
   - loose hardware,
   - damaged cord/electrical wiring,
   - cracked or broken parts, and
   - any other condition that may affect its safe operation.

2. **PERIODICALLY,** wipe external surfaces of Camera with clean cloth.

3. Maintain area surrounding Camera, making sure obstacles don’t interfere with visibility, such as overgrown bushes.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Likely Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls stop working on DVR</td>
<td>Lost connection with DVR.</td>
<td>Press <strong>REW</strong> button on front of DVR until beep sounds.</td>
</tr>
</tbody>
</table>
| Monitor does not display image               | 1. Loose or incorrect connections.  
2. Monitor needs adjustment.                  | 1. Check that all connections are secure and in the correct location.  
2. Adjust the image settings on the monitor. |
<p>| Poor quality images                          | Setting(s) are incorrect.                           | Adjust settings for Video Stream on page 23.                                       |
| Error codes when trying to install DvrClient software | Incompatibility with Operating System. | Check System Requirements on page Video Client (DvrClient) on page 32 to make sure your Operating System is supported. |
| Password not working                         | Incorrect password.                                 | Contact Customer service (1-800-444-3353) for instructions on resetting password. |</p>
<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DVR Console</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Power Adapter</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Input: 100-240V~, 1.5A Max., 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Output: 12VDC, 2A</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>BNC to RCA Cable</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Remote Control</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Mouse</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Power Splitter</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>Camera Mounting Hardware</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>3.6 mm Lens Camera</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>6.0 mm Lens Camera</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Cable - 60 ft.</td>
<td>4</td>
</tr>
</tbody>
</table>

**Record Serial Number Here:**

**Note:** If product has no serial number, record month and year of purchase instead.  

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.
Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. To the extent that this product is used with software other than what is provided, we shall in no event be liable for any damage to your computer or loss of data. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.