SmartBridge™
REMOTE ACCESS
FULL D1 VIDEO SECURITY SYSTEM

USER’S MANUAL
Model
DVRAD0405/DVRAD0805/DVRAD0810/DVRAD1610/DVRAD1620
Thank you for choosing First Alert for your security needs!

For more than half a century, First Alert has made the home-safety and security products that make your job easier. Our products are built to the highest standard which has earned us a leadership role in the home-safety and security product categories. We are committed to serving our customers, from the professionals who install our products, to the families and businesses who count on them. First Alert has been helping families and businesses stay safe for over 50 years. By having a First Alert Security System, you’re taking the first step in protecting your home or business from damage or theft. We’re watching, even when you’re not.

This manual is written for the SmartBridge™ DVRAD0405/DVRAD0805/DVRAD0810/DVRAD1610/DVRAD1620 DVRs. It was accurate at the time it was completed. However, because of our ongoing effort to constantly improve our products, additional features and functions may have been added since that time and on-screen displays may change. We encourage you to visit our website at www.firstalert.com or www.brkelectronics.com to check for the latest manuals (English and Spanish), firmware updates, downloads, other security camera products and announcements. You’ll find this product line under Home Security >> Security Cameras >>Wired Cameras.
INTRODUCTION

KEY PRODUCT FEATURES

Main Description

Four, eight or sixteen channel H.264 digital video recorder with Internet remote surveillance, motion detection, PTZ and alarm control suitable for applications such as high-end residential - new or remodel, light commercial, small business/retail, small warehouse or small grocery

Product Features

- Auto IP connection capability
- H.264 Compression & Virus free Linux O/S
- Record, playback, mobile phone live view, backup, control, & remote access
- 500 GB, 1 TB or 2TB SATA hard drive installed depending on model
- Supports smart phone live view
- User-friendly interface: DVR capable of providing 16 bit true color, semi-transparent GUI with notes for selected menu items.
- Advanced motion detection activated recording
- 24/7 Scheduled Recording
- Network monitoring through internet access
- Supports USB or external DVD backup
- Hi-speed backup/upgrade/record via USB2.0
- PTZ camera control
- HDMI Video Out
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Safety Precautions

- Do not drop, puncture, or disassemble the cameras or DVR.
- Do not tug on the power adapter. Use the plug to remove it from the wall.
- Do not expose the cameras or DVR to high temperatures.
- For your own safety, avoid using the DVR when there is a storm or lightning in your area.
- Use the cameras and DVR with care. Avoid pressing hard on the cameras or DVR body.
- Do not use power cable if it is damaged or crushed.

Instructions for Use

- Always purchase the correct size and grade of battery most suitable for the intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- Remove batteries from equipment that is not to be used for an extended period of time.
- Remove used batteries promptly.

FCC Compliance

FCC Compliance Class B Digital Device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Notice: Only peripherals complying with FCC class B limits may be attached to this equipment. Operation with non-compliant peripherals or peripherals not recommended by First Alert / BRK Brands, Inc. is likely to result in interference to radio and TV reception. Changes or modifications to the product, not expressly approved by First Alert / BRK Brands, Inc., could void the user’s authority to operate the equipment.

FCC Declaration of Conformity for devices with the FCC logo.

Responsible Party: First Alert / BRK Brands, Inc., 3901 Liberty Street Rd., Aurora, IL. 60504-8122 Telephone: (630) 851 - 7330. Product / Model: DVRAD04, DVRAD08, and DVRAD16. We, First Alert / BRK Brands, Inc. declare under our sole responsibility that the device to which this declaration relates: 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.

FCC Certification (if applicable)

This device contains a radio transmitter. Accordingly, it has been certified as compliant with 47 CFR Part 15 of the FCC Rules for intentional radiators. Products that contain a radio transmitter are labeled with an FCC ID.

Fire and Electric Shock Hazard Statement

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, UNPLUG ALL POWER SOURCES, INCLUDING CAMERAS FROM THE DVR BEFORE REMOVING COVER. FAILURE TO DO SO CAN RESULT IN DAMAGE TO THE DVR OR ITS COMPONENTS AS WELL AS INJURY OR DEATH.

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

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF THE PLUG TO THE WIDE SLOT AND FULLY INSERT.

Disposal

These symbols indicate that it is prohibited to dispose of these batteries in the household waste. Take spent batteries that can no longer be charged to the designated collection points in your community.
What’s in the Box*

H.264 4, 8, or 16 channel Digital DVR
with 500 GB, 1 TB or 2TB Hard Drive

DVRAD0405/DVRAD0805: 500 GB
DVRAD0810/DVRAD1610: 1TB
DVRAD1620: 2TB

Quick Install Guide
Installation Software
RJ45 Ethernet Cable
3 Window Warning Decals

60’ BNC Video & DC Power Cables
(One for each camera. Varies with kits depending on number of cameras included.)

9-way splitter or two splitters for 16 channel

Power Supply for DVR
Remote Control
USB 2.0 Mouse
## Product Overview

### DVR Controls

#### Front Panel

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<th>ITEM</th>
<th>FUNCTION</th>
<th>CONTROL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(1) IR remote receiver</td>
<td>[Image](IR remote)</td>
<td>Direct remote towards this position when using DVR</td>
</tr>
<tr>
<td>2</td>
<td>Power indicator light</td>
<td>[Image](Power indicator)</td>
<td>A green light indicates power is on</td>
</tr>
<tr>
<td>3</td>
<td>Record indicator light</td>
<td>[Image](Record indicator)</td>
<td>A green flashing light indicates recording</td>
</tr>
<tr>
<td>4</td>
<td>Buttons 1-4(8)(16)</td>
<td><a href="Buttons">Image</a></td>
<td>Camera Selection</td>
</tr>
<tr>
<td>5</td>
<td>10+</td>
<td><a href="10+">Image</a></td>
<td>Press for camera selection of channels 10-16 (on 16 channel DVR only)</td>
</tr>
<tr>
<td>6</td>
<td>Menu</td>
<td><a href="Menu">Image</a></td>
<td>Enter menu setup</td>
</tr>
<tr>
<td>7</td>
<td>ESC</td>
<td><a href="ESC">Image</a></td>
<td>Brings system previous selection</td>
</tr>
<tr>
<td>8</td>
<td>Left</td>
<td><a href="Left">Image</a></td>
<td>In menu mode: moves to highlight next section</td>
</tr>
<tr>
<td>9</td>
<td>Up</td>
<td><a href="Up">Image</a></td>
<td>In live mode: rotates between single, quad, eight or nine camera screen</td>
</tr>
<tr>
<td>10</td>
<td>Down</td>
<td><a href="Down">Image</a></td>
<td>In live mode: rotates between single, quad, eight or nine camera screen</td>
</tr>
<tr>
<td>11</td>
<td>Right</td>
<td><a href="Right">Image</a></td>
<td>In menu mode: moves to highlight previous section</td>
</tr>
<tr>
<td>12</td>
<td>OK</td>
<td><a href="OK">Image</a></td>
<td>Press to make selection</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td><a href="Sleep">Image</a></td>
<td>On 16 Channel DVR only</td>
</tr>
</tbody>
</table>

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**4 Channel DVR**

**8 Channel DVR**

**16 Channel DVR**
<table>
<thead>
<tr>
<th>Item</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Alarm</td>
<td>4 alarm inputs; 1 alarm output</td>
</tr>
<tr>
<td>2</td>
<td>VGA Output</td>
<td>For connecting to VGA monitor</td>
</tr>
<tr>
<td>3</td>
<td>HDMI Output</td>
<td>For connecting to HDMI monitor</td>
</tr>
<tr>
<td>4</td>
<td>USB/Mouse</td>
<td>Use Lower USB port for mouse connection; Use Upper USB port for USB flashdrive or backup</td>
</tr>
<tr>
<td>5</td>
<td>NET</td>
<td>For connecting RJ45 ethernet cable to PC or router</td>
</tr>
<tr>
<td>6</td>
<td>RS485</td>
<td>For connecting PTZ cameras</td>
</tr>
<tr>
<td>7</td>
<td>Power Switch</td>
<td>Power On/Off</td>
</tr>
<tr>
<td>8</td>
<td>Power Supply</td>
<td>For connection to power cord +12V DC</td>
</tr>
<tr>
<td>9</td>
<td>Audio Input</td>
<td>For connecting audio signal from audio capable cameras or self powered microphones (RCA jacks)</td>
</tr>
<tr>
<td>10</td>
<td>Video Input</td>
<td>For connecting video signal from cameras (BNC)</td>
</tr>
<tr>
<td>11</td>
<td>BNC Output</td>
<td>For connecting to a BNC monitor</td>
</tr>
<tr>
<td>12</td>
<td>RCA Audio Out</td>
<td>For connecting to a speaker or amplifier</td>
</tr>
<tr>
<td>13</td>
<td>Ground</td>
<td>Ground Connection</td>
</tr>
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Remote Control Operation
The remote control is the secondary input device for navigating the system’s interface. In device operation, the MENU key has the same function as “left click” of the mouse.

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<tr>
<td>1</td>
<td>Power</td>
<td>Click power for about 3-5 seconds to shut down the DVR.</td>
</tr>
<tr>
<td>2</td>
<td>Numeric Buttons</td>
<td>Press to Select channel to view; use to input numerical information in appropriate screens</td>
</tr>
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**NAVIGATION BUTTONS**

| 3    | OK | Press to make selection |
|      | ↑  | Press to cursor up; in PTZ mode, press to pan camera up |
|      | ↓  | Press to move cursor down; in PTZ mode, press to pan camera down |
|      | ←  | Press to move cursor left; in PTZ mode, press to pan camera left |
|      | →  | Press to move cursor right; in PTZ mode, press to pan camera right |

**PLAYBACK CONTROLS**

| 4    | Playback Search Recordings |
|      | Play Play Recording (resumes after pause) |
|      | Pause Pause Playback in recording mode |
|      | Frame Playback by frame |
|      | Fast Forward Press to fast forward |
|      | Fast Backward Press to fast backward |
|      | Play Slowly Press to play video slowly |
|      | Stop Press to stop playback |
|      | Record Press to record video (allows to select any or all cameras) |

| 5    | Zoom – (For PTZ cameras only) Press to zoom out |
| 6    | Zoom + (For PTZ cameras only) Press to zoom in |
| 7    | Menu Quick access menu |
| 8    | All Scroll through different view modes |
| 9    | 10+ Press for camera selection of channels 10-16 |
| 10   | ESC Exits Page/Command |
| 11   | DEV (To use the remote for more than one DVR) Allows setting the remote default ID |

Directions for Installing/Changing Batteries
1. Open battery compartment on back of Remote and insert (2) Alkaline AAA batteries (provided.)
2. Ensure all batteries are installed correctly with regard to polarity (+ and -)
3. Remove batteries from Remote if it is not to be used for an extended period of time.
4. Remove used batteries promptly and replace all batteries of a set at the same time.
5. Always purchase the correct size and grade of battery most suitable for intended use.

Any button not identified is not used.
Mouse Operation with this DVR
The mouse is the primary input device for navigating system menus.
NOTE: Unless otherwise noted, all system functions described in this manual are achieved through mouse input.

To use a mouse with the system:
Connect a USB mouse to the USB MOUSE port on back panel of the system.
NOTE: Only the USB 2.0 port on the back panel (Upper USB port) is designed for data backup to a USB flash drive. Do not connect a USB flash drive to the USB MOUSE port. (Lower USB port)

Use the mouse buttons to perform the following:

1 **Left-Button:**
   - Click to select a menu option
   - During live viewing in split-screen double-click on a channel to view the selected channel in full-screen
   - Double-click the channel again to return to split-screen view
   - Selecting letter or number on the virtual keypad

2 **Right-Button:**
   - Click to open the Quick Access Menu
   - Exits any window
   - Exits any menu or re-opens previous menu

3 **Scroll-Wheel:**
   - No function

Virtual Keypad

To enter text or numerical data, the system uses a virtual keypad. In fields where letters or numbers can be entered, you can switch between various formats – numbers, upper case (ABC) and lower case (abc). Note you can access all numbers when in the “Letters” virtual keypads. See below.

**Virtual Keypad**
Numbers

**Letters**
Installing Cameras

Installing Cable-Safe Mounting Bracket

Decide if the camera is to be wall or ceiling mounted and if cable will be fed through mounting surface hidden directly behind the bracket or fed through the side of the bracket so cable is exposed. Mark area where you will drill your hole. The Cable-Safe Mounting Bracket has three Adjusting Points. 1) Rotates Bracket 360° relative to mounting surface, 2) Adjusts bracket hinge 180° and 3) Rotates camera body 360° to level image.

Step 1: Select the position for the camera and drill your hole for the cable. Feed cable through mounting surface. Mount bracket to surface.
Step 2: Aim camera at target and using Adjusting Points 1 and 2 in tandem position camera. Tighten Ring and Thumb Screw.
Step 3: Rotate camera body using Adjusting Point 3 to the proper view angle making sure the Camera Shield is always on top and parallel to the ground so the image is level in the Live View Screen. See “Camera Orientation” Info box. Tighten screw.
Step 4: Attach proper length of cable and run from camera to DVR location. Note: Power cable ends are different. Be sure the correct power connector end matches “To Camera” or “To DVR”. Tip - Connect cable at camera end before running cable to verify orientation is correct. Also, see Information box on “Longer Cable Runs”.
Step 5: Check camera orientation via the Live View screen. Adjust as required.

Connecting Devices

Follow this diagram to make device connections. Note, some devices are not included with this kit. See “What’s in the Box” for included devices.
**Powering your DVR and Cameras**

The power supply included with the DVR is rated for 5 amps. Normally, this is enough to power both the DVR and supplied cameras. However, using aftermarket cameras or a larger number of cameras may surpass the capability of the power supply, causing the system to shut down. Most devices should be marked with the Amperage rating, but some may be marked by wattage. In this case, Amp usage can be found by dividing Watts by Volts, or \( A=W/V \). The power supply should be upgraded if it surpasses 80% of its rating (i.e., 4 amps for a 5 amp power supply), to compensate for momentary spikes in current draw. Note: One Amp equals 1000 milliamps.

**System Start Up**

**Power On/Off**

To power the system On/Off, connect the power cable to the DC 12V port on the rear panel. Press the toggle switch to the on position in the back of the DVR. At startup, the system performs a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

**User Login**

*Password*

ATTENTION: By default, passwords are disabled on the system. You do not need to enter a password when accessing any system menus. However, for security purposes, it is highly recommended to enable passwords on the system using the Password Menu. See “Password” section for details on setting up passwords. Right click and select Login. No password is required when no password is set up. Right click again to show the quick access menu.

**Quick Access Menu**

When using the mouse, use the Quick Access Menu to access several system options, including the System Setup Menu. Select one of the following options:

- **System Setup**: Opens the main system menu
- **View Layout**: Provides a choice of viewing channels on the monitor
  - **View 1**: Allows viewing of 1 channel
  - **PIP**: Allows viewing of 2 channels, Picture in Picture
  - **View 4**: Allows viewing of 4 channels
  - **View 8**: Allows viewing of channels 1 through 8, with channel 1 in large view mode
  - **Split 9**: Allows viewing of channels in a 3 x 3 channel grid
  - **Split 16**: Allows viewing of channels in a 4 x 4 channel grid
- **Video Adjust**: Adjust video image settings by channel
- **PTZ**: Opens the PTZ control menu
- **Clients**: Network user status
- **Snapshot**: Allows you to take a photo of the channel that the cursor is on, and save to HDD
- **Photos**: Review save Snapshots, and upload to USB drive
- **Record Setup**: Access to recording settings for each channel, begin manual recording
- **Playback**: Open the Search Menu and playback recorded video
- **Clear Alarm**: Cancel alarms
- **Shut down**: Allows a choice of logging out, powering down or restarting the DVR system

**NOTE**: Powering down stops the system. The power LED is still on. The only way to fully power down the system is by turning the power off & on with the power switch on the back of the DVR.
Quick Startup
After the initial system power up, the system will ask for a login. The default user is “abc” and there is no password. Simply click login, after which the Setup Wizard will start. Clicking on “Next” will bring you to the next page. “Cancel” will exit the Wizard.

- **Device ID**
  Enter a number between 0 and 255 to identify the DVR when used with other DVRS

- **Language**
  Choose from the dropdown menu to set your preferred language

- **Date Format**
  Choose from the dropdown menu to set your preferred date format

- **Set Date**
  Set the year, month and day here

- **Set Time**
  Set the hour, minute and second here

- **Timezone Setting**
  Set the timezone according to Prime Meridian time

- **PPPoE**
  Click “Set” to setup the DVR to communicate over DSL or 3G wireless networks. You will need the account info from your Service Provider

- **Automatic (DHCP)**
  Click here to automatically assign an IP address to the DVR once connected to a network

- **IP**
  The DVR’s IP address can be manually set here

- **NetMask**
  The IP Subnet Mask can be manually set here

- **Gateway**
  Set the Gateway IP address here

- **DNS**
  Select the DNS IP address for the network here

- **Device Port**
  Used to select an open port on a network router for the DVR to access

Continued on next page
INITIAL SETUP
SETUP WIZARD

• **Resolution (Main)**
  Choose between “None(Camera Default)”, “CIF(352x288)” or “D1(720x480)” resolutions

• **kbps (Main)**
  Choose transmission rate for camera channel
  NOTE: A higher kbps will result in larger video files

• **Resolution (Minor)**
  Choose between “None(Main Setting Default)”, “QCIF(176×144)” or “CIF(352x288)” resolutions over network

• **kbps (Minor)**
  Choose transmission rate for camera channel over a network connection

• **Fluency (Minor)**
  Selects the frame rate that is transmitted over the network.
  A higher frame rate will increase network data rate

• **Number**
  ID number of the particular drive device

• **Type**
  Displays the drive device type, “HD” for Hard Drive, “U-Drive” for USB Drive

• **Capacity**
  Drive device’s storage total capacity

• **Used**
  Amount of currently stored data on drive device

• **Status**
  Show status of Hard Drive

• **Format**
  Will format a selected drive. NOTE: This will erase all data on the drive

• **Refresh**
  Select to update display of connected disk drives

**Finishing the Wizard**

After the Drive Device the screen, the Wizard will ask if the Wizard should be launched the next time the DVR boots up. After clicking “Finish” the system will ask if you would like to run the “interactive demo.” Click “Ok” to run the demo.
After the system powers up, and the user is logged in, the Right Click Menu can be accessed. To access basic System Settings, select the first option, “System Setup.”

To open the System Setup Menu: Right-click anywhere on-screen to open the Quick Access Menu and select System Setup (mouse only), or press the Menu and select System Setup on the remote control or front panel of the system.

NOTE: If passwords are enabled on the system, enter the username and password when prompted.
**General Menu** (Continued)

**Path:** System Setup>General

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Format</td>
<td>Set the date format according to your local preference</td>
</tr>
<tr>
<td>Set Date</td>
<td>Enter the current date here</td>
</tr>
<tr>
<td>Set Time</td>
<td>Enter the current time here</td>
</tr>
<tr>
<td>Timezone Setting</td>
<td>Set your local time-zone here</td>
</tr>
<tr>
<td>Auto Synchronize Time</td>
<td>Adjusts and sets system time to match network server time</td>
</tr>
<tr>
<td>Enable DST</td>
<td>Set time to adjust for Daylight Savings</td>
</tr>
<tr>
<td>User Group</td>
<td>Toggles User List between local users and network users</td>
</tr>
<tr>
<td>User List</td>
<td>Once a user group is selected, from above, the users belonging to that group will be displayed. Using the Add, Edit and Delete buttons, the list and users can be changed</td>
</tr>
<tr>
<td>Automatic Logout</td>
<td>Toggles whether or not user is logged out after a set time</td>
</tr>
<tr>
<td>Wait [x] Min</td>
<td>Adjusts time interval before user is logged out if Automatic Logout is selected. Enter the desired wait time in minutes in the box</td>
</tr>
</tbody>
</table>

**Why Set a Date & Time?**

It's important to set the proper date and time before continuing so that you can easily locate recorded events. Inaccurate dates and times on files may affect their admissibility as evidence in court. In addition, when changing current time settings, to avoid possible confusion with the time stamps on recorded and currently recording files, stop all ongoing recording processes before altering the system time and restart recording using the new settings.
**Channel Menu**

*Path: System Setup > Channel*

Use the Channel Menu and its submenus to adjust Channel Display settings, including resolution, menu display position, privacy masks, audio settings.

- **View Setting**
  - This tab adjusts certain channel appearance options.

- **Copy**
  - Will copy one channel’s settings to the rest of the channels.
  - NOTE: Channel Name will not be copied.

- **Default**
  - Will reset all channels to their default settings.

- **Arrange Views**
  - This will open a 16-view screen where the different channels can be rearranged on the display to your preference.
  - NOTE: The system will ask to reboot after saving changes.

- **Privacy Mask**
  - This tab allows the creation of masks to block certain areas from being recorded.

- **Channel**
  - The channel number according to view arrangement.

- **Channel Name**
  - The channel name can be changed here, i.e., CH01 will be displayed as Front Hall.

- **OSD Pos.**
  - Choose where channel stats are displayed.

- **Hide Video**
  - Check this if you do not want the channel to be displayed.
  - NOTE: Recording and other functions will still operate for the channel.

- **DVR Port**
  - Shows which port the camera for the channel is plugged into on the back of the DVR.

- **Copy, Default, Arrange View**
  - Operate just as in the View Setting tab.
### Channel Menu (Continued)

**Path:** System Setup > Channel

<table>
<thead>
<tr>
<th><strong>System Setup</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Channel Menu</strong></td>
</tr>
<tr>
<td><strong>System Setup</strong></td>
</tr>
<tr>
<td><strong>Copy</strong></td>
</tr>
<tr>
<td><strong>Apply</strong></td>
</tr>
</tbody>
</table>

- **Resolution (Main)**: Choose between “None (Camera Default)”, “CIF (352x288)” or “D1 (720x480)” resolutions.

- **kbps (Main)**: Choose transmission rate for camera channel. **NOTE:** A higher kbps will result in larger video files.

- **Resolution (Minor)**: Choose between “None (Main Setting Default)”, “QCIF (176x144)” or “CIF (352x288)” resolutions over network.

- **kbps (Minor)**: Choose transmission rate for camera channel over a network connection.

- **Fluency (Minor)**: Selects the frame rate that is transmitted over the network. A higher frame rate will increase network data rate.

- **Audio**: Audio channel number.

- **Audio Compress**: Close or Open audio compression.

- **Bind with Audio**: Choose which video channel the audio will match up with.

- **Audio Monitoring**: Close or Open audio monitoring.

- **Volume**: Toggles volume level for audio channels.
Network Menu
Path: System Setup>Network

Using the Network menu, settings for the DVR’s connection to a network and the internet can be changed and adjusted.

- **PPPoE**
  Click **Set** to setup the DVR to communicate over DSL or 3G wireless networks. You will need the account information from your Service Provider.

- **IP**
  The DVR’s IP address can be manually set here.

- **NetMask**
  The IP Subnet Mask can be manually set here.

- **Gateway**
  Set the Gateway IP address here.

- **DNS**
  Select the DNS IP address for the network here.

- **MAC**
  This is the MAC address for the DVR.

- **Automatic (DHCP)**
  Click here to automatically assign an IP address to the DVR once connected to a network.

- **Device Port**
  Used to select an open port on a network router for the DVR to access.

- **Device ID**
  This is the SmartBridge Device ID for the DVR.

- **Status**
  Network status of the DVR.
Network Menu (Continued)
Path: System Setup>Network

- **Service**
  Sets parameters to use a Closed Circuit platform over a network connection

- **WebCC**
  Toggle Web Closed Circuit capability over the network

- **Port**
  Set an open port for WebCC to access on the network

- **Audio**
  Choose the Audio Channel to broadcast over network

- **Bi-directional talk**
  Enable the use of two way communication over a network
Alarm Menu
Path: System Setup>Alarm

Settings for different alarm parameters can be set from the Alarm menu, including how and when an alarm is triggered. Use the Alarm In feature to configure alarm settings. NOTE: External alarm devices must be connected to the alarm block on the rear panel of the DVR in order to use the I/O (input/output) alarms of the system. See page 25 “Alarm Inputs” and “Alarm Inputs Diagram” for details on attaching alarm inputs.

- **Channel**
  Indicates the channel

- **Enable**
  Sets the alarm settings for a channel to on or off

- **Set**
  Set the Sensitivity and Area of Motion Detection for the selected channel to set an alarm

- **Copy**
  Copy a selected channel’s setting to all other channels

- **Default**
  Reset all channels to default settings

**Alarm Inputs:**
Alarm inputs are devices or switches that activate when a door, window, cabinet etc. is opened or accessed. For example, you might want to only have the camera record when someone opens a tool cabinet or when a door opens vs. recording when motion occurs around those areas. There may be people moving by those areas frequently but you are only concerned about when those areas are accessed. This saves hard drive space and makes it easier to find an event that was recorded to the hard drive.

**Select Alarm in Module:**
Alarm Input cables of device of Alarm in: one is connected with “COM” port, the other is connected with the port “1/2/3/4” (This should be in accordance with Alarm Input ID 1/2/3/4 in DVR software). The below figure shows the Alarm Input cable has been connected with Port 1, so the Alarm Input 1 should be set in DVR software.

**Alarm Output:**
Alarm output is used to activate an external device such as a horn or light after an alarm is triggered. To do this the DVR uses a dry contact normally open relay. To configure alarm outputs, connect the external device to the out connections on the alarm block as required by the device. The maximum contact rating is 24 VDC @ 3A. Alarm input can start recording on any one of the camera channels.
**Alarm Menu** (Continued)

**Path:** System Setup>Alarm

- **Channel**
  Indicates the channel

- **Enable**
  Sets the alarm settings for a channel to on or off

- **Alarm Output**
  Determine how the system initiates the Alarm alerts, including sending an email, sounding a buzzer, etc.

  - **Keep Alarm**
    How long the alarm will be active before being cancelled

  - **Turn on Buzzer**
    Activate DVR alarm buzzer

  - **Send to Client**
    Alarm will be forwarded to another connected DVR

  - **E-Mail Client / Send Snapshot**
    Send email notifying addressee of alarm, and select if a photo of channel is sent

  - **Start to Record**
    Select channel to record when current channel sets alarm

  - **Call Preset**
    Begin PTZ camera preset for a channel. NOTE: The alarm channel and PTZ channel can be two separate channels

  - **Snapshot**
    Take a photo of a channel. NOTE: The alarm channel and Snapshot channel can be two separate channels

  - **Output Module**
    Send email notifying addressee of alarm, and select if a photo of channel is sent. NOTE: The alarm channel and Snapshot channel can be two separate channels

- **Work Mode**
  Indicates whether the alarm channel switch is normally open or closed

- **ID**
  Indicates the channel, only the first 4 can receive an external alarm signal
Alarm Menu (Continued)
Path: System Setup>Alarm

- **Channel**
  - Indicates the channel

- **Enable**
  - Sets the alarm settings for a channel to on or off

- **Start Time**
  - Indicates time to begin settings.
  - NOTE: 24 hour clock

- **End Time**
  - Indicates time to end settings.
  - NOTE: 24 hour clock

- **Start Time**
  - Indicates time to begin settings.
  - NOTE: 24 hour clock

- **End Time**
  - Indicates time to end settings.
  - NOTE: 24 hour clock
**Alarm Menu** (Continued)

Path: System Setup > Alarm

- **E-Mail**
  Adjust settings for E-Mail alarms, and destination email address and settings

  ![E-Mail Settings](image)

  - **SMTP**
    Simple Mail Transfer Protocol settings for the outbound email address

  - **Interval**
    How often to send email in alarm state

  - **User Name**
    Username/address of outbound email

  - **Password**
    Password of outbound email

- **Inbound Setting**
  Select settings for DVR to receive email

- **Inbound Site**
  Enter the site for the inbound mailbox

- **Modify**
  Adjust Inbound email settings

- **Add/Delete**
  Add or Delete Inbound email settings

- **Mail Testing**
  Click to send a test email and confirm settings are working

---

This symbol means channel is recording.

Indicates motion detect is enabled.

Indicates motion detected.
**System Menu**

**Path:** System Setup > System

Access system logs, system maintenance options and information on the DVR

- **Type:** Filter log display according to type of event
- **Backup:** Record log file to an external USB drive
- **Date:** Narrow results to a specific date
- **Detail:** Detailed information of a selected log event

**Event Number:** DVR identity, log event number

**Time:** Date and Time of logged event

**Description:** Brief summary of event
**System Menu** (Continued)

Path: System Setup > System

- **Scheduled Restart**
  Toggle if/when the DVR will do an automatic reboot. **NOTE:** time is on 24 hour clock

- **Update Type**
  Select where data is pulled from to update the DVR

- **Update**
  Manually update DVR

- **Reset Factory**
  Reset the DVR to factory settings. This will erase all settings on the DVR

- **Import Setting**
  Import settings from another DVR via USB drive

- **Export Setting**
  Export settings to another DVR via USB drive

- **Information**
  Information on DVR ID and other identifications

- **Product Model**
  Model version of the DVR

- **Device ID**
  Unique identifier for DVR

- **Serial Number**
  Production identifier for DVR

- **Software Version**
  Current software running DVR

- **Hardware Version**
  Current hardware running DVR

- **Software Release Date**
  Release date of current software running DVR
Device Menu
Path: System Setup>Device

Access device options for hardware connected to the DVR

- Device
  Storage device type and name

- Used
  Amount of data on device

- Capacity
  Amount of storage capacity of device

- Status
  Current status of the Hard Drive

- When Hdisk is Full
  Toggle option to overlay or stop recording when Hard Drive reaches capacity

- Format
  Format storage device.
  NOTE: This will delete all data on device

Formatting the Internal Hard Drive
If you installed a new hard drive, you must format the hard drive in the DVR before it can be used. Clicking on the HDD Format button will begin the formatting process. After formatting, the system will restart. ATTENTION: Formatting the internal HDD erases all video data. This step cannot be Undone.
System Menu (Continued)
Path: System Setup>System

- **Channel**: Select the channel that has a PTZ camera
- **Address**: Address of the PTZ camera
- **Protocol**: Select operating code for PTZ camera
- **Left Right Swap**: Mirror joystick left/right movement
- **Up Down Swap**: Mirror joystick up/down movement
- **Iris Zoom Swap**: Mirror zoom motion on joystick
- **Focus Zoom Swap**: Mirror focus zoom motion on joystick
- **Zoom Swap**: Mirror zoom motion on joystick
- **Preset**: Select and adjust preset for PTZ camera
- **Patrol**: Select and adjust patrol preset for PTZ camera
- **BR**: Baud rate
- **Device ID**: For use with multiple DVRs, select a simple number ID for the DVR. NOTE: This can be between 0 and 255
- **Channel**: Adjust display horizontal aspect
- **Height of Monitor**: Adjust display vertical aspect
- **Device ID**: Adjust display horizontal aspect

System Setup (Continued)
Path: System Setup>System

- **Width of Monitor**: Adjust display horizontal aspect
- **Height of Monitor**: Adjust display vertical aspect
- **Device ID**: For use with multiple DVRs, select a simple number ID for the DVR. NOTE: This can be between 0 and 255
View Layout

The number of channels displayed can be controlled from this menu. One camera channel can be selected to fill the whole display, or a number of different channels can subdivide the display.

- **View 1**
  Select which Channel to fill entire display
- **PIP**
  Channel 1 and 2 will be displayed. Channel 2 will display as a PIP.
- **View 4**
  Channels 1,2,3,4 will be displayed
- **View 8**
  Eight channels will be displayed, with the sequence determined by which channel was previously selected
- **View 9**
  Nine channels will be displayed, with the sequence determined by which channel was previously selected
- **View 16**
  All sixteen channels will be displayed
Video Adjust

Each camera channel can be adjusted individually for brightness, contrast and saturation. To adjust:

1. **Channel**: Select the proper channel for adjustment using the Channel drop down.

2. **Brightness, Contrast & Saturation** may be adjusted by placing and clicking the mouse cursor with the appropriate rectangle. Finer adjustments can be made by clicking the + and - squares.

3. Repeat process for all channels as desired. Or click DEFAULT, to return video to the original factory settings.

4. Click SAVE.

- **Channel**: Use the drop down menu to select which channel's video to adjust.

- **Mode**: Each channel has two sessions available, which can be set using the timer to change between settings automatically, i.e., between day and night. Timer uses 24 hour clock, i.e, 17:00 instead of 5:00pm.

- **Lightness**: Adjust the lightness of the channel between 0 and 255 units.

- **Contrast**: Adjust the contrast of the channel between 0 and 255 units.

- **Chroma**: Adjust the chroma of the channel between 0 and 255 units.

- **Hue**: Adjust the hue of the channel between 0 and 255 units.

- **Sharpness**: Adjust the lightness of the channel between 0 and 15 units.

- **Standard, Soft, Bright**: Clicking one of these buttons will set the adjustments to the matching default settings.

- **Copy**: Will duplicate the current settings on the next channel selected.

- **Save**: Will save the selected settings.
PTZ VIDEO OPERATION

Pan/Tilt/Zoom (PTZ) Setup:
NOTE: Consult the instruction manual of your PTZ camera for complete information about your camera, including protocol, baud rate and parity settings before beginning setup. Enter these settings in the DVR.

STEP 1: Connect your PTZ Camera to this DVR
Connect a PTZ camera to the BNC and DC power cables. Also, connect the communication cable from the PTZ camera to the 485A (TX, +) and 485B (RX, -) control inputs to the PTZ block on the back of the DVR. Note there is only one set of PTZ control inputs (485A & 485B), however multiple PTZ cameras can be set up by making parallel connections. See diagram for details and see “PTZ Camera Setup” Info box for additional information.

Step 2: Configure PTZ Communication Settings
To access this menu, from the setup menu click DEVICE. Then PTZ. This will bring up the PTZ setup screen. PTZ setting options for each camera can be selected independently for each camera channel.
1. Select the appropriate channel connected to the PTZ camera using the drop down
2. Under ADDRESS, enter an address from 001–255 using the virtual keyboard
3. Under protocol, select the appropriate protocol based on the setting of the camera using the drop down menu (PELCO-D, PELCO-P, PELCO-D EXT, PELCO-P EXT, PELCO-D-3)
4. Under BAUD rate, select 1200, 2400, 4800, 9600 as set in the PTZ camera
5. Click OK to confirm settings. Click EXIT to leave screen without making changes

LEFT/RIGHT, UP/DOWN, IRIS ZOOM, FOCUS ZOOM and ZOOM EXCHANGE will reverse the actions taken when moving or zooming the camera. For example movement to the left, becomes movement to the right and movement to zoom in is reversed to movement to zoom out.

NOTE: Changes to the PTZ setup screen take place immediately. However, in the event of a power failure, the settings can revert to the previous settings. It is recommended to perform a power down and restart through the drop down menu to save changes in order for the system to operate with these changed PTZ setting should a power failure occur.

Configure the operation & control of your PTZ camera(s):
In live view, double click on the channel with the connected PTZ camera to open to full screen view. This selects the channel to configure and control.
1. From the quick access menu select PTZ. this will bring up the PTZ manual control screen
2. From the PTZ setup screen you can adjust:
   • Pan speed: Adjusts the speed (1-255) the camera
will move while being controlled manually. Certain PTZ camera will use only part of the range.

- Zoom: “+” zooms in and “-” zooms out
- Focus: “+” and “-” focuses the picture.
- Iris: “+” lets more light in and “-” removes light from the picture. This is useful to correct backlight issues.
- Directional keys: left and right arrows control the pan; up and down arrows control the tilt.

### Setting Of Presets

Presets are camera positions setup in advance. The DVR can control the camera to move the PTZ camera to the proper preset position.

To set up a preset, click more from the PTZ manual control screen, to gain access to the PTZ patrol screen. and then click set to create preset positions. See PTZ preset screen.

To set up a preset use the ptz preset screen. do the following:

1. Use the directional arrows to set camera to the preset position desired.
2. Place a preset number in the box next to add and input the length of time, number of seconds you would like the preset to be positioned at the preset.
3. Click add. The newly added preset will now be available in the preset drop down field.
4. Repeat the process to add the proper number of presets desired.

### Viewing A Preset

Presets may be viewed by selecting the appropriate preset using the drop down and then clicking goto. this can be accomplished on either the PTZ patrol screen or the PTZ preset screen.

### Executing A Patrol (Tour)

Use the PTZ patrol screen to set up a patrol. The patrol will move from one preset to the next preset in the order that is indicated in the drop down. When executed, the patrol will remain at a camera preset position The length of time indicated under stay time for that preset.

Click start patrol to start the patrol. Click stop patrol to stop the camera from patrolling through camera presets.
SNAPSHOT & PHOTO RECORDING OPERATION

**Snapshot**

Snapshot is used to take a photo of a particular channel

- **Taking a Snapshot**
  Using the mouse, left-click on a channel display to take and save a snapshot

- **Exiting Snapshot**
  Using the mouse, right-click to exit snapshot

**Photos**

Photo is used to review photos taken by the snapshot tool

- **Search Type**
  Use the dropdown menu to narrow the results to how the photo was recorded

- **Channel**
  Use the dropdown menu to narrow the results to one channel’s photos

- **Start/End**
  Use the fields to narrow search between two specific dates

- **Backup**
  Select to store files to an external USB drive

Files are displayed here

1 files

N02054312.bmp
Record Setup

Record Setup is used to set scheduled or manual recording

- **Channel**
  List of channels

- **Manual**
  Select to begin manual recording of a channel

- **Scheduled**
  The “Set” Button will launch a new sub menu to set recording schedules when Type is changed to “Scheduled”

- **Copy**
  Will copy one channel’s settings to the rest of the channels.

- **Default**
  Will reset all channels to their default settings

- **Set**
  See page 36 for the submenu that will set scheduling
Scheduling Recording (cont.)

Scheduled will appear when the “Scheduled” type is selected from the Record Type menu for each channel (See page 35)

- **Set**
  Will launch a menu to adjust recording types and settings for each day of the week

---

**Record Setup**

**Recording Operation**

- **Motion Detect**
  Indicates that recording will begin on motion detection

- **Alarm**
  Indicates that recording will begin on alarm activation

- **No Recording**
  Indicates that no settings have been entered

- **Regular**
  Indicates channel has a scheduled recording at that time
Record Setup

Use the Scheduled submenu, accessed from Record Setup (See page 36), to set various recording styles and times for each channel. Use the mouse to click and drag a time or set the time by using the on-screen keyboard.

- **Regular**: Set a recording by blocking out a time on the 24-hour indicator.
- **Motion Detect**: Set a motion detection recording by blocking out a time on the 24-hour indicator.
- **Alarm**: Set an alarm recording by blocking out a time on the 24-hour indicator.
- **Week**: Select day of the week.
- **Channel**: Indicates Channel that is being scheduled.
- **Copy**: Copy to another channel.
- **Default**: Return all settings to default.

Use these controls to set with onscreen keyboard. Use the mouse to click and drag a time or set the time by using the on-screen keyboard.
PLAYBACK
RECORDING OPERATION

Playback

Recorded video is accessed through the Search Recording screen. To access the recordings, right click the mouse to access the quick menu drop down. Select PLAYBACK. The SEARCH RECORDING screen will appear on screen.

To Find & Play Recordings:
1. Choose the target channel to search recordings on, or select ALL.
2. Select the TYPE of recording by using the drop down. Selections include Manual, Schedule, Motion Detect MD, Alarm and All.
3. Input recording search date using the virtual mouse. The file list will show all recordings available based on your selection criteria.
4. Highlight the recording to play back and select PLAY.

Recording Backup
5. Place a formatted USB into one of the USB slots on the back panel of the DVR. Make sure there is enough room on the USB device for the recording to be backed up.
6. Highlight the recording file to be backed up, from the file list selection.
7. Click the Backup Icon.

The file will be backed up on the USB disk.

NOTE: The system is compatible with most major brands of USB flash drives, with capacities from 256 MB to 4 GB. Backup files come formatted in .mp4 format. To view these files from your PC, install the .mp4 software from your installation CD.

Audio/Video Recording
Caution: Audio surveillance in some states is illegal or requires permission from one or both parties to record someone's voice. Laws are also different from residential vs. commercial applications. Some federal, state, and local laws prohibit certain surveillance activities and/or the use or distribution of the information obtained from such activities. Prior to using this system, you should become familiar with the pertinent laws to ensure compliance with those applicable to surveillance activities.
Clear Alarm

Clears and cancels current channel alarms

- **Current**
  Cancels current alarm on a channel

- **Clear All**
  Clears all alarms on all channels

Shutdown

The system provides the ability with a controlled shut down, through a power down or with a Restart. To access the shut down system menu, right click the mouse to see the drop down quick menu and then select Shutdown. The following screen appears.

**Logout:** Logs the user out. A request activity to the DVR from any user will require a login and password to gain access to the system.

**Power off:** Power Off shuts the system down in a controlled manner. The hard drive is kept running. If user wants to shutdown fully, user needs to turn off the button on back panel of DVR.

**Restart:** Provides the user with a restart. The system will shut down and restart in a controlled way.
Network Setup for Remote Access

Your Smartbridge system is capable of connecting to a local area network (LAN) to view remotely, without the use of port forwarding. Please follow the steps below.

1. Right click and select “System Setup.” Then select “Network,” then “Setting.” This will allow you to view all of your network settings.
2. Plug the Ethernet cable from your router the Ethernet port on the back of the DVR.
3. Plug the ethernet cable from the DVR to a free ethernet port on the router.
4. Make sure “Automatic DHCP” is check marked.
5. Your IP address, subnet mask, DNS, and gate will automatically populate AFTER you restart the DVR.
6. Port should stay at 9101.
7. Note the Device ID in the dialogue box. This is your unique Smartbridge ID Code. (pictured right)
8. Online Status should display online when you have connected the Ethernet cable into the Ethernet Port on the DVR. You must also have internet on your home network for this to work. (pictured right)
9. You must install the Smartbridge software to your computer to view the cameras locally or remotely.
10. Insert the CD Rom disk into the CD drive on your computer. Run Smartbridge.exe
11. Click Install to start the installation wizard and to install the Smartbridge Software.
12. The Smartbridge Icon will appear on your desktop after the installation wizard is finished. Double click the icon to run the Smartbridge Software.
1. The connect tab is for connecting to one SmartBridge DVR only. Use the advanced Tab when connecting to multiple Smartbridge DVR’s at once. (Group). See adding groups section.

- Click Port to enter the port settings. This is to assign a router port that is open. Typically, this is set to 9101 (recommended)

2. The Device ID is the ID number found on your DVR system. This will be the letter A followed by a series of numbers. Enter your device ID. The default password is 123.

3. Click login.

1. You are now connected to the SmartBridge DVR remotely. All cameras that are connected to your SmartBridge system should now be shown on the Smartbridge software screen.
<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="connect.png" alt="Connect Cams" /></td>
<td>Press this button to connect all cameras connected to the Auto ID system. Also, Right click on a camera source screen and select connect.</td>
</tr>
<tr>
<td><img src="disconnect.png" alt="Disconnect Cams" /></td>
<td>Press this button to disconnect all cameras connected to the Auto ID system. Also, Right click on a camera source screen and select disconnect.</td>
</tr>
<tr>
<td><img src="record.png" alt="Record External" /></td>
<td>Press this button to Record to an external hard drive (80gb or larger required)</td>
</tr>
<tr>
<td><img src="snapshot.png" alt="Snapshot Cam" /></td>
<td>Press this button to take a snapshot image of a selected camera window. Image is automatically saved to the external hard drive. (80gb or larger required)</td>
</tr>
<tr>
<td><img src="playback.png" alt="Playback External" /></td>
<td>Press this button to play video recorded to the external drive after the record external button has been pressed.</td>
</tr>
<tr>
<td><img src="advanced.png" alt="Advanced Settings" /></td>
<td>Press this button to select the advanced settings features.</td>
</tr>
<tr>
<td><img src="settings.png" alt="Settings" /></td>
<td>Press this button to open the settings window.</td>
</tr>
<tr>
<td><img src="pop-up.png" alt="Pop-up" /></td>
<td>Press this button to isolate all connected cameras to POP Up windows which can be easily moved around on the desktop.</td>
</tr>
<tr>
<td><img src="minimize.png" alt="Minimize" /></td>
<td>Press this button to minimize the Smartbridge software and to return to your desktop.</td>
</tr>
<tr>
<td><img src="exit.png" alt="Exit" /></td>
<td>Press this button to Exit the software.</td>
</tr>
<tr>
<td><img src="record.png" alt="Record" /></td>
<td>This displays the channels that are connected. When a channel is connected, it will show a green bar on the left of the channel number. The green bar will be off when the channel is disconnected. A green bar will be below when a channel is selected.</td>
</tr>
<tr>
<td><img src="search.png" alt="Search" /></td>
<td>Press to see recorded files on DVR system (See start/stop master recordings)</td>
</tr>
<tr>
<td><img src="search.png" alt="Search" /></td>
<td>Press to search for recordings on a specific day on the DVR system.</td>
</tr>
</tbody>
</table>
External Recording

You are able to record using the remote software simultaneously to recording on the Smartbridge DVR system. In order to record using the Smartbridge remote software, you will need an 80 GB minimum external hard drive formatted to FAT32.

1. Plug an external hard drive into your computer. Your operating system should associate a drive letter to the hard drive. Once the hard drive is connected,

2. Click the settings button and click the storage tab. The drive letter your operating system associated to the external device is visible in the list. Check the drive letter that you want the recordings to be saved to:

If your amount of free space is low on the hard drive, select overwrite previous recorded files to write over prerecorded files. Select stop recording and make notification to stop all recordings when disk drive space is full and Smartbridge will make a notification that the drive is full

3. Select a channel to record, right click and select start recording or click to start recording. To stop recording, right click on the channel and select stop recording. All recordings will be saved to the external hard drive.

   • You can also set the cameras to record directly to the DVR system hard drive from the Smartbridge remote software. This is option is only available if you are connected to the same network using the Smartbridge software. Right click on the channel and select Start Master Recording. This will start a recording directly to the Smartbridge DVR and not to the external hard drive. To stop the recording, right click on the channel and select Stop Master Recording.

4. Select a Channel, Click to capture a still image of a camera in view. This image will be saved to the external hard drive.
5. Select Playback external to play back recorded files.

All files available on the External hard drive can be played back on the Smartbridge Software. Select the channel from the dropdown of the channel you would like to playback. Double click the file you would like to playback.

<table>
<thead>
<tr>
<th>Open</th>
<th>Plays a recorded video</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop</td>
<td>Stops a recorded video during playback</td>
</tr>
<tr>
<td>Fast</td>
<td>Click repeatedly to Fast Forward at different speeds of a recorded video</td>
</tr>
<tr>
<td>Slow</td>
<td>Click repeatedly to play a Slow forward speed of a recording.</td>
</tr>
<tr>
<td>Backward</td>
<td>Click repeatedly for reverse playback of a recording</td>
</tr>
<tr>
<td>Forward</td>
<td>Manually set slow playback.</td>
</tr>
<tr>
<td>Snapshot</td>
<td>Takes a snapshot of a recording</td>
</tr>
</tbody>
</table>

| Cut | No Function |
| Cut to end | No Function |
| Play All | Plays all recordings |
| Play None | Plays no recordings |
| Play Audio | Turns audio On or Off |

| Sixteen Screen | Shows sixteen channels in sixteen screens |
| Full Screen | Shows selected channel in full screen |
| Save As | Saves a recording to an .sv5 file on the hard disk |
| Text List | Shows the times recordings started in a list view |

| Shows One Screen |
| Shows four channels in four screens |
| Shows nine channels in nine screens |
Select to adjust specific settings for your Smartbridge DVR. (See recording external for Storage Tab information) Select the Advanced Tab.

Check the Place system always on top box to place the Smartbridge on top of all other software within the operating system.

Check the Disabled Ctrl-Alt-Del when system is locked box to disable the use of Ctrl-Alt-Del when you lock the system. To lock the system, see Advanced Settings section.

Check the Enable devices management to enable the devices management tool. This will allow the Set Remotely feature to be enabled when you right click on a source screen and select Set Remotely.
Advanced Settings

Select **Advanced Settings** to open the advanced settings options for your Smartbridge DVR

- **Switch User** (Feature enabled in advanced mode only): Switches between users (see setting up groups)
- **TV Mode**: Select TV mode to place all connected channels to share the full screen. Right click to exit TV Mode.
- **Lock System**: Select Lock System to lock the Smartbridge Software. This will prevent anyone from tampering with the DVR Software.
- **Unlock System**: Select Unlock System to unlock the Smartbridge Software from the lock state. You will have to enter your User ID and Password.
- **Group Sequencing Display**: Starts a rotation from one group and another providing you have more than one DVR in your group settings.
- **Operation Log**: Displays the Operation Log History
- **Snapshot Manager**: Opens the display manager to search and view snapshots. (See Recording External section)
- **Stop Sound Card Alarm**: Stops the sound card alarm feature
- **Clear Operation Log**: Deletes the operation Log History
- **Screen Splits**:
  - Display the screens in 1, 4, 9, 16, or 25 camera views.
If you have pan tilt zoom cameras installed, you are able to control the pan tilt zoom cameras remotely with the Smartbridge Software.

### Pan Tilt Zoom

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>![Up]</td>
<td>Press to move PTZ camera up</td>
</tr>
<tr>
<td>![Left]</td>
<td>Press to move PTZ camera left</td>
</tr>
<tr>
<td>![Down]</td>
<td>Press to move PTZ camera down</td>
</tr>
<tr>
<td>![Right]</td>
<td>Press to move PTZ camera right</td>
</tr>
<tr>
<td>Iris</td>
<td>Adjust the color of the PTZ camera</td>
</tr>
<tr>
<td>Focus</td>
<td>Adjust the focus of the PTZ camera</td>
</tr>
<tr>
<td>Zoom</td>
<td>Zoom in and out</td>
</tr>
</tbody>
</table>
REMOTE ACCESS
DVR GROUPS

Setting Up Groups

With the Smartbridge Software, you are able to set up multiple DVR’s for remote viewing called groups. This is beneficial if you have multiple locations requiring surveillance. To set up a group, you need to have more than one Smartbridge DVR connected to a network. Select the Advanced Tab

To add a group, Select settings
Default username is abc and default password is 123
To add a group, select the Video Source/group Tab
• Select add group.
• Type the name of the group in the current group box.
• Select Modify to save the new group.
  o Enter the username and password
  o Enter an Alias name for the group.
  o Enter the Device ID of your Smartbridge DVR system for the group
• Select receive remote alarm signals if you want to receive an alarm alert for your Smartbridge DVR
• Select Enable Pop Up to enable pop ups
• Select add source to add a camera source
• Select DEL Source to delete a camera source
• Select Default to revert back to default settings
• Select Apply to all to apply all settings to all camera sources within the group
• Select Save to save all settings.

Select the Local User Tab to add user rights/permissions to the Smartbridge Software. You are able to add users to the Smartbridge Remote viewer software. Administrator has full access to all features. General user has viewing capability only.
With the Smartbridge software, you are able to configure camera settings remotely. To do this, right click on any camera source that has a camera connected and select set remotely. (Note, for this feature to be enabled, you must select the enable devices management box in settings – Advanced.

**Web service** - currently not function

**Mobile service** - to enable mobile browsing

**Port** - this is the web port which should always be at 80

**Quality** - selects the quality of the streaming video

**Channel** - select channel you would like to apply settings to

**Device ID** - shows your DVR ID number

**FPS** - frames per second. The higher the fps, the better

**Register** - No function

**Set time** - set date and time
REMOTE ACCESS
CAMERA SETTINGS

Channel – select channel of the PTZ
Ch name – give the channel number a name
Main – quality of camera –
CIF or D1 on 4/8 channel
Standard/Net Mode on 16 channel
Minor – low quality of camera –
Select QCIF, CIF or None.
PAL/NTSC – default is NTSC
Audio – turns audio on or off (only works if a mic is installed)
Position – Changes the position of the
date and time and ch. No.
Select Left down, Left up, or None.
Main size – chose the size of the file for streaming. Size is
by MB/H (megabytes per hour)
Minor size – chose the lowest number of MB/H

Minor FPS – Choose the frames per
seconded – higher the better

PTZ
Address: Address of the PTZ camera
Protocol: Choose the protocol of the PTZ
NOTE: ONLY compatible with pelco-D
Band Rate – chose the band rate of the PTZ
Record task – sets your scheduling recording

PTZ Options Screen

Device Logs Screen
Hard Drive Removal and Installation

HDD Installation

To replace the hard drive in the DVR:
1. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, UNPLUG ALL POWER SOURCES, INCLUDING CAMERAS FROM THE DVR BEFORE REMOVING COVER. FAILURE TO DO SO CAN RESULT IN DAMAGE TO THE DVR OR ITS COMPONENTS AS WELL AS INJURY OR DEATH.
2. Remove screws securing the cover of the DVR and remove cover.
3. Disconnect the hard drive power and data cables.
4. Remove old hard drive and replace with the new one.
5. Re-install the screws securing the hard drive to the bottom of the DVR.
6. Re-connect the hard drive power and data cables.
7. Replace the cover and screws. NOTE: Format hard drive per instructions in HDD MANAGEMENT section.

Caution!
When working with electrostatic sensitive devices such as hard disk or DVR unit, make sure you use a static-free workstation. Any electrostatic energy coming in contact with the hard disk or DVR can damage it permanently.

Hard Drive Format
NOTE: A new hard drive must be formatted after installation. Format per instructions in the HDD MANAGEMENT section of this manual.

CAUTION!
RISK OF ELECTRIC SHOCK

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, UNPLUG ALL POWER SOURCES, INCLUDING CAMERAS FROM THE DVR BEFORE REMOVING COVER. FAILURE TO DO SO CAN RESULT IN DAMAGE TO THE DVR OR ITS COMPONENTS AS WELL AS INJURY OR DEATH.

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

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.
### Technical Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Device Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>System</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>English/ Spanish/ French</td>
<td></td>
</tr>
<tr>
<td>GUI</td>
<td>16 Bit Graphic menu (OSD Menu)</td>
<td></td>
</tr>
<tr>
<td>Password</td>
<td>User password, Administrator password</td>
<td></td>
</tr>
<tr>
<td><strong>Video</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video in</td>
<td>4/8/16 channel composite video input 1.0Vp-p, impedance 75Ω, BNC</td>
<td></td>
</tr>
<tr>
<td>Video out</td>
<td>1 VGA, 1 BNC (CVBS), 1 HDMI</td>
<td></td>
</tr>
<tr>
<td>Video display</td>
<td>4/8/16 channel: 1/4/8/9</td>
<td></td>
</tr>
<tr>
<td>Video standard</td>
<td>PAL, (Europe) 25 f/s, CCIR 625line, 50 scene NTSC, (US) 30 f/s, CCIR 525 line, 60 scene</td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio input</td>
<td>2-ch audio input, impedance 600Ω, RCA</td>
<td></td>
</tr>
<tr>
<td>Audio output</td>
<td>1-ch audio output, impedance 600Ω, RCA</td>
<td></td>
</tr>
<tr>
<td>Record style</td>
<td>Audio video recorded simultaneously</td>
<td></td>
</tr>
<tr>
<td>Audio compression</td>
<td>ADPCM</td>
<td></td>
</tr>
<tr>
<td><strong>Picture processing and storage</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Picture compression</td>
<td>H.264</td>
<td></td>
</tr>
<tr>
<td>Picture resolution</td>
<td>CIF/D1</td>
<td></td>
</tr>
<tr>
<td>Audio style</td>
<td>ADPCM</td>
<td></td>
</tr>
<tr>
<td>Video code rate</td>
<td>CIF: 384<del>768 Kbps D1: 512</del>1024 Kbps</td>
<td></td>
</tr>
<tr>
<td>Audio code rate</td>
<td>32 KB/s</td>
<td></td>
</tr>
<tr>
<td>Data storage</td>
<td>500 GB or 1 TB SATA HDD included, up to 2 TB capable</td>
<td></td>
</tr>
<tr>
<td><strong>Alarm</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm input</td>
<td>4 alarm input</td>
<td></td>
</tr>
<tr>
<td>Alarm output</td>
<td>1 alarm output</td>
<td></td>
</tr>
<tr>
<td><strong>Connector</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PTZ interface</td>
<td>Supports PELCO-D</td>
<td></td>
</tr>
<tr>
<td>Mouse</td>
<td>Mouse USB 1.1</td>
<td></td>
</tr>
<tr>
<td>Data</td>
<td>USB 2.0</td>
<td></td>
</tr>
<tr>
<td>Network interface</td>
<td>RJ45, 10M/100M</td>
<td></td>
</tr>
<tr>
<td><strong>VGA</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA output</td>
<td>Supports 800 x 600, 1024 x 768, 1280 x 1024, 1366 x 768, 1440 x 900 resolution</td>
<td></td>
</tr>
<tr>
<td><strong>Software upgrade</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>Supports USB firmware upgrade</td>
<td></td>
</tr>
<tr>
<td><strong>other</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage input</td>
<td>AC:110~240V, to regulated 12VDC</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>6W without HDD</td>
<td></td>
</tr>
<tr>
<td>Working temperature</td>
<td>14 °F to 122 °F (-10 °C to 50°C)</td>
<td></td>
</tr>
<tr>
<td>Video impedance input</td>
<td>75Ω each channel</td>
<td></td>
</tr>
<tr>
<td>Video output</td>
<td>1Vp-p CVBS signal</td>
<td></td>
</tr>
</tbody>
</table>
FAQ’s

If your problem is not listed below, please call our toll-free number for more support. Tech Services: 800-323-9005.

Question: Why does DVR not work after starting? Why did the DVR stop working?
Answer:
- Check that the power adapter is plugged into the DVR properly.
- Check the power source and all power cord connections are properly connected.
- Make sure the power on-off switch on the back of the DVR unit is on.

Question: Why does the DVR reboot automatically? Or stop for several minutes after starting?
Answer:
- Check the supply voltage to be sure it is stable.
- Bad track on hard drive or the hard drive is bad.
- Instability of the front-end video signal.
- High temperature, too much dust, bad DVR operating environment.

Question: Why is there no video output on single, multi or all channels?
Answer:
- Check if the camera adaptor is properly connected.
- Check the cable for connecting video input/output in the back panel of DVR.
- Insert the video source directly into the display device and check if they are causing the problem.
- Check the brightness of the picture and bring it back to its original default setting.
- No video input signal or too weak.

Question: Why is there no audio sound when monitoring?
Answer:
- Check sound box or speaker functions. Also check possible short circuit.
- Audio source may be connected to the video channel. You can click to full-screen to check.
- The hardware of DVR is defective.
- Cameras are not audio capable.
- Speakers need to have an amplifier.
- Channel being monitored is not connected to an audio camera.
- Volume regulate is turned down.

Question: Why is there no audio when playing back?
Answer:
- Check to see that the audio settings for the channels are correct.
- Audio is off in record menu.

Question: Why is my system time not correct?
Answer:
- Wrong setting or user did not click OK to confirm.

Question: Why doesn’t motion detection work?
Answer:
- The setting of motion detection area is not correct.
- Sensitivity is too low.

Question: Why do I have no disc or disc mount error?
Answer:
- The data being downloaded exceeds the capacity of backup device.
- The backup device is incompatible.
- The backup device is damaged.

Question: Why doesn’t the Remote Control work?
Answer:
- The remote control is too far from the DVR.
- Remote control batteries are dead or low.
- Remote control is damaged, check by using the control on the DVR.

Question: Why can’t I log in over the Internet?
Answer:
- Check the network to see if it is connected.
- Check if LINK or 100M LED is displayed normally on the panel; use ping xxx.xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly.
- Make sure you are running Windows 7, Vista or XP operating system and Internet Explorer 6.0 - 8.0.

Question: Why does DVR have problems with real-time images, such as bad image color or serious brightness distortion?
Answer:
- If PAL and NTSC are not correctly selected, the images will be in black and white and possibly a rolling screen.
- DVR is not compatible with monitor.
- The video transmission distance (cable run) is too long.
- Adjust the DVR color settings.
<table>
<thead>
<tr>
<th>Error</th>
<th>Possible Cause</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>System is not receiving power or is not powering up</td>
<td>Cable from power adapter is loose or is unplugged</td>
<td>• Confirm that all cables are connected correctly</td>
</tr>
<tr>
<td></td>
<td>Cables are connected, but system is not receiving sufficient power</td>
<td>• Confirm that the power adapter is securely connected to the back of the unit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Confirm that the system is powered on (LED indicators on the front should be ON)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the unit is connected through a power bar or surge protector, try bypassing the bar and connecting the power directly to the wall outlet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Confirm that there is power at the outlet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Connect the power cable to another outlet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Test the outlet with another plugged device</td>
</tr>
<tr>
<td>Remote control not detected by the system</td>
<td>Battery in the remote control is drained or is missing</td>
<td>• Install two fresh AAA alkaline batteries in the remote control</td>
</tr>
<tr>
<td>Hard drive is not detected by the system</td>
<td>Hard drive cables are loose or not properly connected</td>
<td>• Remove the housing and check that hard drive cables are firmly connected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Open the housing and install a 3.5 SATA hard drive</td>
</tr>
<tr>
<td>Mouse not detected by system</td>
<td>Mouse cable is not connected or is not firmly connected to the system</td>
<td>• Firmly connect the mouse cable to the USB Mouse port (not the USB Data port) on the front panel</td>
</tr>
<tr>
<td></td>
<td>System needs to be reset</td>
<td>• Power off the system (Turn power switch off position on back of unit). Firmly connect a USB mouse to the USB Mouse port on the front panel of the system. Power on the system (Turn power switch to on position on back of unit).</td>
</tr>
<tr>
<td>There is no picture on selected channels/camera picture is not being displayed</td>
<td>Camera cables are loose or have become disconnected</td>
<td>• Check the camera video cable and connections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Disconnect and reconnect the cable at the system and at the camera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Try moving the camera to another channel or use another cable</td>
</tr>
<tr>
<td>The image on the DVR appears but does not have sound</td>
<td>Audio cables are loose or have been disconnected</td>
<td>• Check the AUDIO connections to the DVR</td>
</tr>
<tr>
<td></td>
<td>Audio channels are disabled insert check the system settings</td>
<td>• Check the Configurations: System Setup&gt;Channel&gt;Audio</td>
</tr>
<tr>
<td></td>
<td>Volume on external speakers (not included) is low or off</td>
<td>• Increase volume on external speakers (not included)</td>
</tr>
<tr>
<td></td>
<td>Cameras are not audio capable or a powered microphone is not attached</td>
<td>• Add audio capable cameras or a powered microphone (not included with this kit)</td>
</tr>
<tr>
<td>The system beeps at startup</td>
<td>The beep at startup is normal</td>
<td></td>
</tr>
</tbody>
</table>
PRODUCT LIMITED WARRANTY

BRK Brands, Inc., (“BRK”), the maker of First Alert® brand products warrants that for a period of one year from the date of purchase (the “Warranty Period”), this product will be free from defects in material and workmanship. BRK, at its sole option, will repair or replace this product or any component of the product found to be defective during the Warranty Period. Replacement or repair will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. This warranty is valid for the original retail purchaser only from the date of initial retail purchase and is not transferable. In order to obtain warranty service, you must keep the original sales receipt and proof of purchase in the form of the UPC code from the package. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

WARRANTY EXCLUSIONS

Parts and Labor: 1 year limited (warranted parts do not include bulbs, LEDs, and batteries)
This warranty does not apply to bulbs, LEDs, and batteries supplied with or forming part of the product. This warranty is invalidated if non-BRK accessories are or have been used in or in connection with the product or in any modification or repair is made to the product.
This warranty does not apply to defects or damages arising by use of the product in other than normal (including normal atmospheric, moisture and humidity) conditions or by installation or use of the product other than in strict accordance with the instructions contained in the product owner’s manual.
This warranty does not apply to defects in or damages to the product caused by (i) negligent use of the product, (ii) misuse, abuse, neglect, alteration, repair or improper installation of the product, (iii) electrical short circuits or transients, (iv) usage not in accordance with product installation, (v) use of replacement parts not supplied by BRK, (vi) improper product maintenance, or (vii) accident, fire, flood or other Acts of God.
This warranty does not cover the performance or functionality of any computer software included in the package with the product. BRK makes no warranty that the software provided with the product will function without interruption or otherwise be free of anomalies, errors, or “Bugs.” This warranty does not cover any costs relating to removal or replacement of any product or software installed on your computer.
BRK reserves the right to make changes in design or to make additions to or improvements in its products without incurring any obligations to modify any product which has already been manufactured. BRK will make every effort to provide updates and fixes to its software via its website. This warranty does not cover any alteration or damage to any other software that may be or may become resident on the users system as a result of installing the software provided. This warranty is in lieu of other warranties, expressed or implied, and BRK neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the product. In no event shall BRK be liable for any special or consequential damages arising from the use of the product or arising from the malfunctioning or non-functioning of the product, or for any delay in the performance of this warranty due to any cause beyond its control.
BRK does not make any claims or warranties of any kind whatsoever regarding the product’s potential, ability, or effectiveness to prevent, minimize, or in any way affect personal or property damage or injury. BRK is not responsible for any personal damage, loss, or theft related to the product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers, or distributors to the contrary are not authorized by BRK, and do not affect this provision of this warranty.
BRK’s responsibility under this, or any other warranty, implied or expressed, is limited to repair, replacement or refund, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. BRK is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including but not limited to, loss profits, downtime, goodwill, damage to or replacement of equipment and property and any costs of recovering, reprogramming or reproducing any program or data stored in or used with a system containing the product accompanying software. BRK does not warrant the software will operate with any other software except that which is indicated. BRK cannot be responsible for characteristics of their party hardware or software which may effect the operation of the software included. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above Warranty Period. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province, or jurisdiction to jurisdiction.

OBTAINING SERVICE

If service is required, do not return the product to your place of purchase. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 a.m. – 5:00 a.m. Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling.
After contacting the Consumer Affairs Division and it is determined that the product should be returned for Warranty Service, please mail the product to: BRK Brands, Inc., 3901 Liberty Street Road, Aurora, IL 60504-8122.