

# WIRELESS **4GB** SECURITY SYSTEM

**CAMERAS INCLUDED**

## USER'S MANUAL

Models

**DWS-471** 1 Camera Included

**DWS-472** 2 Cameras Included



**MPEG-4**  
VIDEO  
COMPRESSION

**7in**  
7" LCD  
SCREEN

**4GB**  
MICRO SD  
CARD INCLUDED

**AUDIO**  
SURVEILLANCE

**INDOOR/OUTDOOR**  
CAMERAS

**NIGHT**  
VISION

**First Alert<sup>®</sup>**

## WELCOME

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*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 DWS-471 and DWS-472 Wireless DVR systems. 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.brkelectronics.com](http://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 Products >> Security Cameras >> Wireless Cameras.

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Made in China

## MAIN DESCRIPTION

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Four channel MPEG-4 wireless digital video recorder with 7" 16:9 LCD Screen suitable for applications such as high-end residential - new or remodel, light commercial, small business/retail, small warehouse or small grocery.

## PRODUCT FEATURES

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- 7" 16:9 LCD Screen
- 2.4 GHz Digital Frequency Hopping Spread Spectrum (FHSS) Technology
- MPEG-4 Compression
- Supports real-time AV preview and recording up to VGA@25 FPS(Single Camera Mode) or QVGA@25fps/CH (Multiple camera mode)
- 4GB Micro SD Card Included. Supports a maximum of 32GB SDHC memory card.
- Simultaneously preview & record from all 4 wireless cameras
- Independent motion-detect recording with adjustable mask zone on any of 4 cameras
- Multiple recording mode selectable (Manual/ Motion-detect/Scheduling)
- User-friendly interface: true color, semi-transparent GUI with notes for selected menu items
- 2X digital zoom
- 2000mAh/3.7V Lithium Ion-Polymer Rechargeable Battery with 3 hour battery life (Power Saving Off)
- Audio surveillance cameras
- 24/7 Scheduled Recording
- CMOS Color cameras with 25 IR LED's for up to 60' night vision
- Camera has built-in IR cut filter for truer color representation
- IP66 weather rating

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## SAFETY PRECAUTIONS

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- 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 crush or damage the power cable

## FCC COMPLIANCE

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### FCC Compliance Class C Intentional Radiator

This equipment has been tested and found to comply with the limits for a Class C Intentional Radiator, 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 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.

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

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.

## DISPOSAL

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This symbol indicates 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.

# 3

# PRODUCT OVERVIEW PACKAGE CONTENTS

## WHAT'S IN THE BOX

Digital Wireless Receiver  
with 7" LCD Screen



Digital Wireless Camera,  
Antenna and Stand  
DWS-471: 1 Camera  
DWS-472: 2 Cameras



2 Window  
Warning Decals



User's Manual



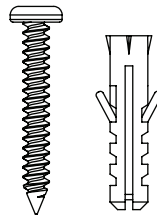
SEC24 Media Playback  
Software and Manuals



AV Cable



Power Supplies for  
DVR and Cameras  
2 - DWS-471  
3 - DWS-472








Mounting Hardware  
(3 screws and 3 plastic  
anchors per Camera)



4GB Micro SD Memory  
Card with Adaptor  
(Brand may vary)

## FRONT PANEL



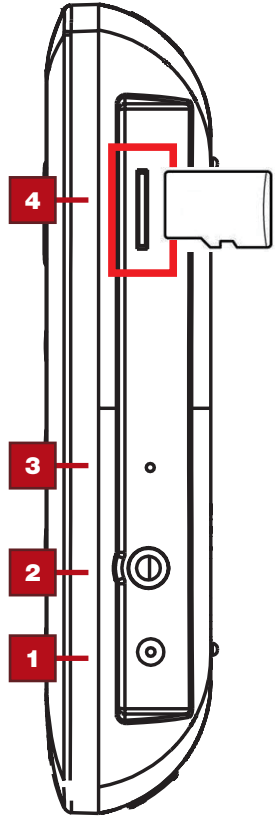
| ITEM | FUNCTION                | DESCRIPTION  | CONTROLS  |
|------|-------------------------|--|---|
| 1    | Power/Mute Button (Top) | Power unit On and Off or enable "Mute" Feature. Hold button for several seconds to turn unit On or Off. Briefly press button to toggle "Mute" On or Off.                       |   |
| 2    | Link & Power Indicators | Shows status of signal strength, Battery and Power On/Off  |   |
| 3    | Menu                    | Center Button brings up Main Menu. In menus, press to confirm selections   |  |
| 4    | Navigation Ring         |  Display: Switch Channel<br>Menu: Cursor Up<br>Playback: Fast Forward                       |   |
|      |                         |  Display: Switch Channel<br>Menu: Cursor Down<br>Playback: Fast Reverse                     |   |
|      |                         |  Display: Volume Up<br>Menu: Cursor Right<br>Playback: Volume Up, Switch Display Channel    |   |
|      |                         |  Display: Volume Down<br>Menu: Cursor Left<br>Playback: Volume Down, Switch Display Channel |   |
| 5    | ESC                     | Display & Menu: Exit or previous screen<br>Playback: Previous  |   |
| 6    | REC/DEL                 | Playback: Next Record, REC Mode: Stops Recording   |   |
| 7    | ZOOM                    | Zooms 2X   |   |
| 8    | ALARM                   | Turns alarm On and Off   |   |

# 3

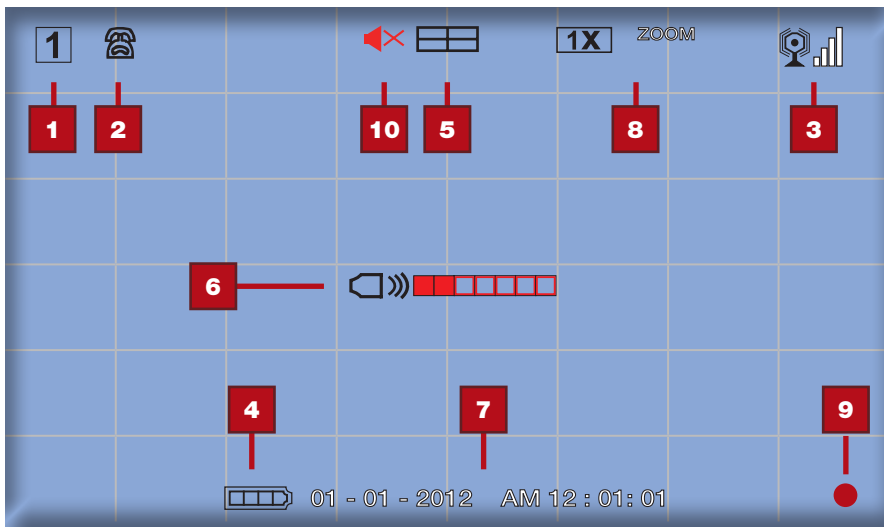
## PRODUCT OVERVIEW CONNECTIONS & INDICATORS

### SIDE PANEL

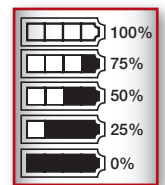
| ITEM | FUNCTION             | DESCRIPTION  | CONNECTIONS |
|------|----------------------|--|-------------|
| 1    | DC 5V /1A Power Port | Connect Power Adaptor.   |             |
| 2    | AV Out               | Connect to a Monitor or TV through RCA inputs                                  |             |
| 3    | Reset                | Powers unit off  |             |
| 4    | Memory Card Slot     | Insert 2GB to 32GB Micro SD Memory Card (4GB Micro SD Card w/adaptor included) |             |



### DISPLAY INDICATORS



| ITEM | INDICATOR NAME      | ICON | DESCRIPTION                                     | INDICATORS |
|------|---------------------|------|---|------------|
| 1    | Channel Indicator   |      | Shows camera channel being viewed               |            |
| 2    | Audio Indicator     |      | Shows whether Audio is turned On/Off for system |            |
| 3    | Signal Indicator    |      | Shows status of signal strength                 | 100%       |
| 4    | Battery Indicator   |      | Shows battery strength (See Chart)              |            |
| 5    | Display Mode        |      | Shows Quad, Scan or Single Display mode         |            |
| 6    | Volume Indicator    |      | Audio volume 1 through 7                        |            |
| 7    | System Date & Time  |      | System Date and Time                            |            |
| 8    | Zoom                |      | Indicates Zoom 1X or 2X                         |            |
| 9    | Recording Indicator |      | Shows recording is in progress                  |            |
| 10   | Mute Indicator      |      | Indicates recording mute feature is enabled     |            |

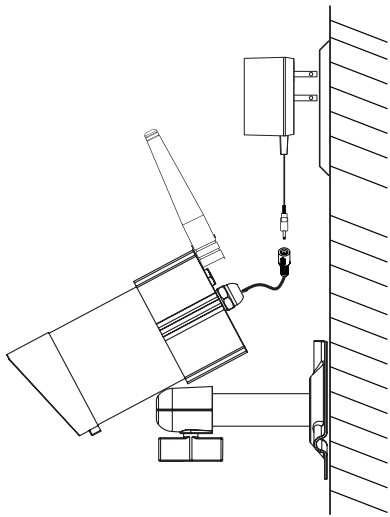
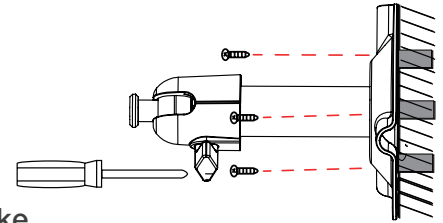


Battery Strength Chart

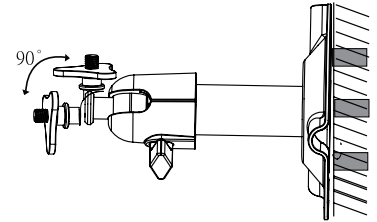


## INSTALLING CAMERAS

1. Select the position for the camera and secure the camera stand.  
(Screws and anchors are supplied. Use an appropriate screw type for the mounting surface.)
2. Screw the camera onto the bracket.



3. Adjust camera to the proper view angle. Make sure the lens is upright relative to your subject. Tighten the thumb bolt.
4. Screw the antenna into place on the rear of the camera. Adjust the antenna to an upright position.
5. Connect the power cable to the DC IN of the camera.
6. Plug the power supply into the electrical outlet.
7. Once the camera is connected, see Camera Setup, Camera Pairing to link the camera(s) to the receiver.



### Camera Orientation

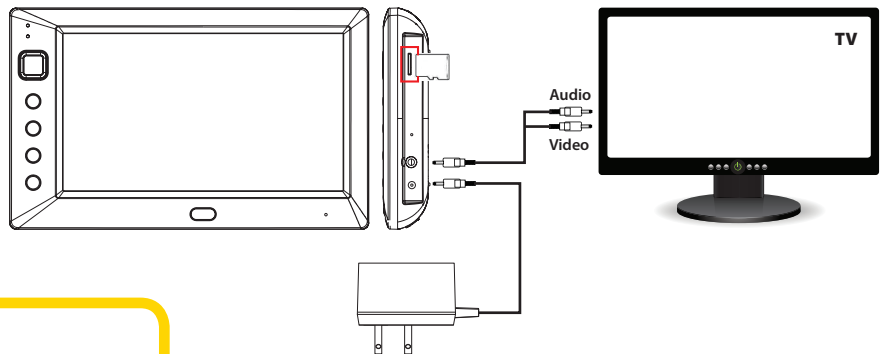
It's important the camera is mounted correctly to ensure the image is not upside down as the camera lens can only be positioned one way.

## SETTING UP THE WIRELESS RECEIVER

1. Connect the power cable to the DC IN of the receiver.
2. Plug the power supply into the electrical outlet.
3. Once the receiver is connected, see Camera Setup, Pairing (Operating Menus) to link the camera(s) to the receiver.

### OPTIONAL: VIEW ON TELEVISION OR OTHER MONITOR

1. If connecting to another monitor such as a TV: Connect the AV cable into the AV OUT of the receiver.
2. Connect the two RCA jacks to the TV AV IN. Yellow = Video; White = Audio
3. Press POWER button to turn on the receiver.



### Rechargeable Battery

Caution: The 7" monitor is fitted a 3.7V 2000mAH (LI-ON) rechargeable battery pack. At the end of life, it should not be disposed of with household waste. Please recycle where the facilities exist.

Check with your local authority or retailer for recycling advise.

## MAIN MENU

The Main Menu screen is used to control the various functions of the DVR system. It contains the following sub menu icons: Camera Setup, Record Setup, Event List, System Setup, Alarm Buzzer, Zoom, Scan Activated Cameras and Memory Card Overwrite.



Camera Setup-Main Menu



Record Setup-Main Menu



Event List-Main Menu



System Setup-Main Menu



Alarm Buzzer-Main Menu



Zoom-Main Menu



Scan Activated Cameras-Main Menu



Memory Card Overwrite-Main Menu

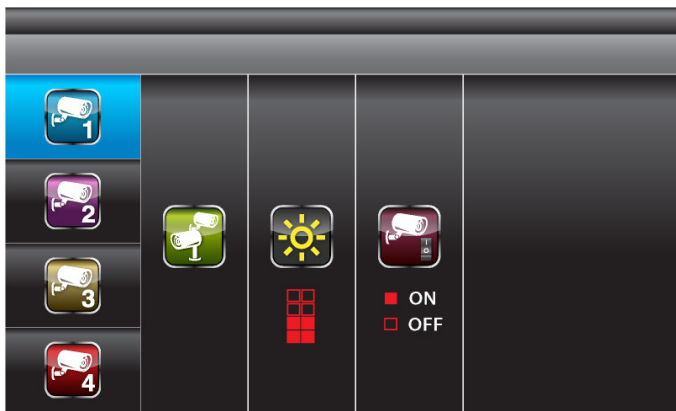
## CAMERA SETUP MENU

Select CAMERA SETUP, press  MENU key once to enter sub-menu.

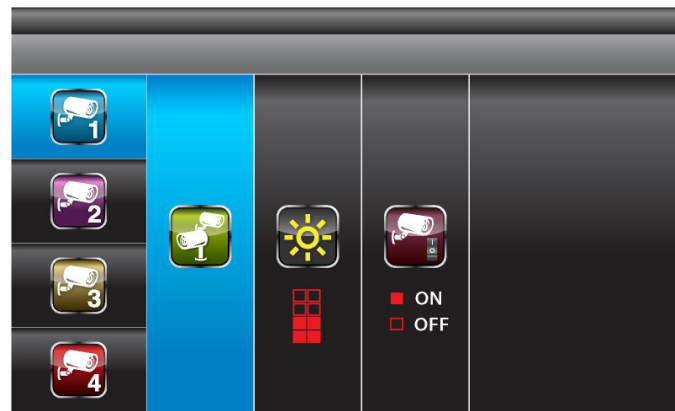


Camera Setup-Main Menu

## CAMERA PAIRING




Camera Setup-Sub Menu



Camera Setup-Pairing

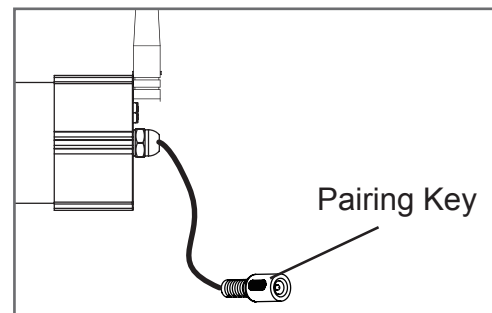
Use  $\triangle$   $\nabla$  to select the camera to set up (1-4).

Use  $\triangleleft$   $\triangleright$  to select PAIRING, BRIGHTNESS and CAMERA ON/OFF settings.

With PAIRING section highlighted, press  MENU key once to begin camera pairing. Press Pairing Key button on Camera cord. Pairing LED on camera will blink once then will begin blinking continuously indicating data transmission is in process.

System will confirm pairing process is successful with "PAIRED" displaying on screen. System will indicate pairing process failed with "PAIRING FAIL" displaying on screen.

Press ESC to return to main menu.

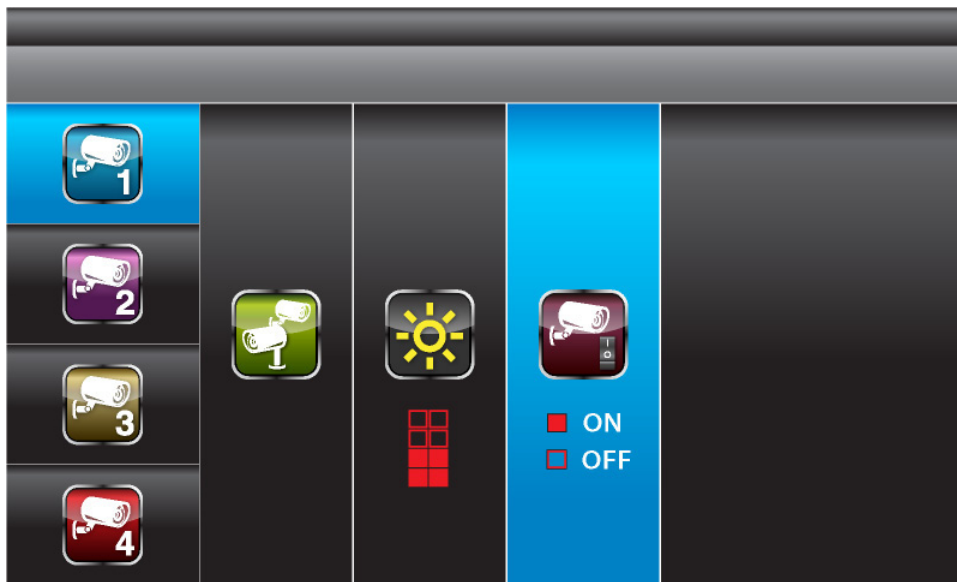


## CAMERA BRIGHTNESS ADJUSTMENT

*Camera Setup-Adjust Brightness*

With BRIGHTNESS section highlighted, use  $\triangle$ / $\nabla$  to adjust camera brightness.

## CAMERA ACTIVATION

*Camera Setup-Camera Activation*

With ACTIVATION section highlighted, use  $\triangle$ / $\nabla$  to enable or disable camera.  
Press ESC to return to main menu.

**NOTE:** Ensure the cameras are paired to the receiver for SCAN or QUAD to function properly camera "ON" can only be selected when camera has been paired to system.

## RECORDER SETUP MENU

Select RECORDER SETUP, press  MENU key once to enter sub-menu.





*Record Setup-Main Menu*





## RECORD SCHEDULE



*Record Schedule Setup Menu*

Use     to select time block.

## RECORD SCHEDULE - CONTINUED

| RECORD SCHEDULE   |              |              |              |            |
|---|--------------|--------------|--------------|------------|
| M: MOTION S: SCHEDULE X: MANUAL   |              |              |              |            |
|  | M AM 12 : 00 | X AM 01 : 00 | S AM 02 : 00 | AM 03 : 00 |
|  | AM 04 : 00   | AM 05 : 00   | AM 06 : 00   | AM 07 : 00 |
|  | AM 08 : 00   | AM 09 : 00   | AM 10 : 00   | AM 11 : 00 |
|  | PM 12 : 00   | PM 01 : 00   | PM 02 : 00   | PM 03 : 00 |
|  | PM 04 : 00   | PM 05 : 00   | PM 06 : 00   | PM 07 : 00 |
|  | PM 08 : 00   | PM 09 : 00   | PM 10 : 00   | PM 11 : 00 |


Recorder Schedule Setup - Options Set

There are three different recording options available to choose from. Press  MENU key to switch between different recording mode.

M: MOTION (REC only when motion detected)

S: SCHEDULE (record between selected times for each day)

X: MANUAL (manual REC)

The system will record video from all 4 channels simultaneously with MOTION, SCHEDULE and MANUAL record modes. One of the four channels will have audio available. Note: To toggle between recording and not recording sound with the video image press the "Power" button once briefly. The icon  will show on the screen when the sound is muted. See Audio/Video Recording Caution Statement below. The time slot boxes in the diagram above each represent hourly slots, e.g., selecting AM 10:00 means recording will occur from 10:00 am to 11:00 am. Also if for example, boxes AM 10:00 and AM 11:00 are set to "S" (Schedule) recording, please note that a continuous 2 hour video file will not be recorded but separate files depending on the recording time for each file setup, i.e., if set to 2 minutes then 60 clips will be recorded in a 2 hour schedule recording slot.

While the system is performing MOTION recording, audio will automatically switch to the channel triggering by motion. Recording cannot be stopped until 30 seconds after recording has started. This mandatory system operation is designed to prolong the overall life of memory card. To stop recording, press REC/DEL once. To remove the memory card, please power off the system first.

If SCHEDULE recording mode is set, the system will automatically resume recording 60 seconds after recording is stopped manually. If MOTION record mode is set, the system will resume motion detection function 60 seconds after recording is stopped manually.

Recording must be stopped before entering the system main menu and the system will resume the mode selected in the IDLE DISPLAY SETUP.

NOTE: Recording will not work if there is no memory card inserted into the DVR.

**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.

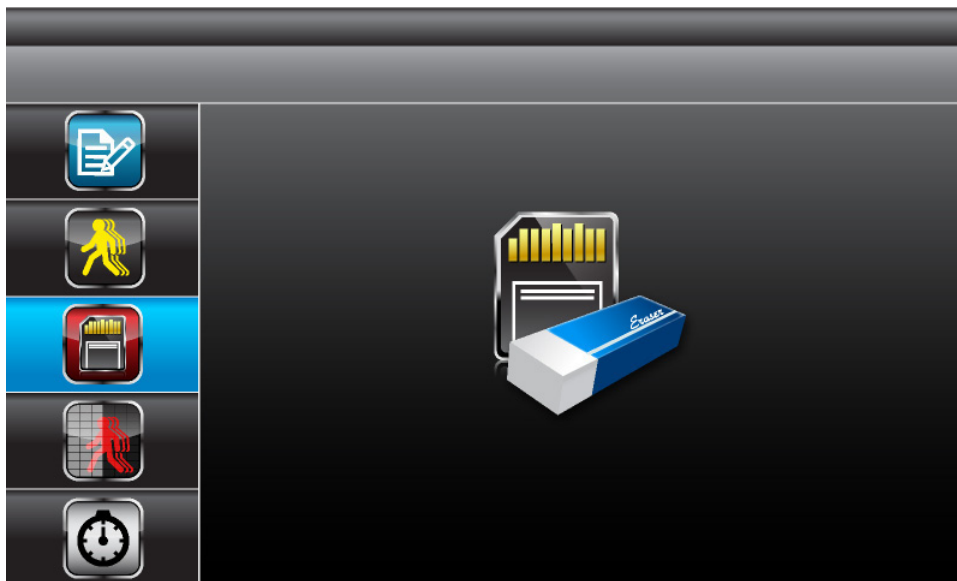
### MOTION DETECTION SENSITIVITY



*Recorder Setup-Motion Detection Sensitivity*


Use  $\triangle$ / $\nabla$  to select MOTION DETECTION SENSITIVITY section. Use  $\triangleleft$ / $\triangleright$  to highlight camera for setup. Use  $\triangle$ / $\nabla$  to adjust sensitivity level: OFF / LV1 / LV2 / LV3 (LV3 is most sensitive). Press ESC to save and exit.

### FORMAT MEMORY CARD



*Recorder Setup-Format Memory Card*

Use  $\triangle$ / $\nabla$  to select FORMAT STORAGE, press  $\text{MENU}$  to enter. Press  $\text{MENU}$  again to confirm and begin formatting memory card. Press ESC to exit. NOTE: If a new memory card is used then it must be formatted first here before use.

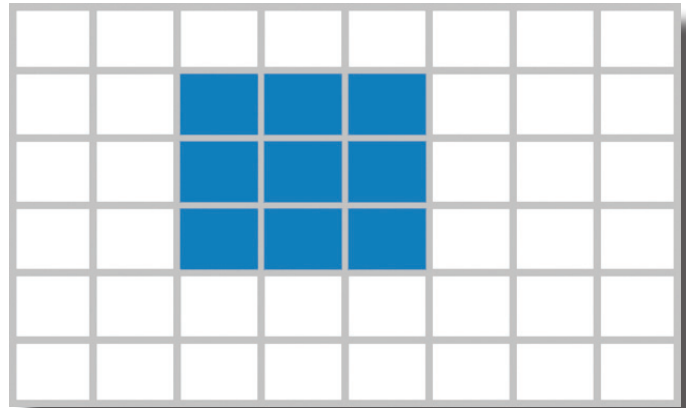


**Formatting the Memory Card**  
 When you install a new memory card, you must format it before it can be used. Clicking the FORMAT STORAGE button will begin the formatting process. WARNING! Formatting an existing SD Card erases all data. This step cannot be undone.


## SETUP MASKING AREA



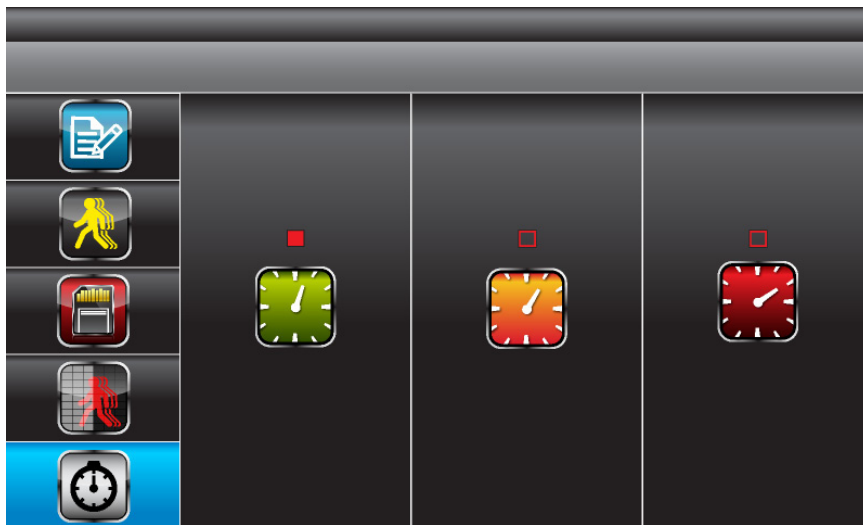
Masking Area Setup Menu




Masking Area Setup Grid

This screen allows you to setup areas where you do not want motion to be detected. Use  $\triangle$ / $\nabla$  to select MASKING AREA SETUP menu. Use  $\triangleleft$ / $\triangleright$  to highlight camera (1-4) for setup. Use  $\triangle$ / $\nabla$ / $\triangleleft$ / $\triangleright$  to navigate to the grid where no motion detection is desired. Press  MENU key to toggle between mask/unmask grid(s). Movements taking place inside masked area will be ignored. Continue selecting another grid for setup or press ESC to save and exit.

## RECORD TIME



Recorder Setup-Record Time

Use this menu to set the amount of time you want to record after motion is detected. Use  $\triangleleft$ / $\triangleright$  to highlight recording period: 2 Min / 5 Min / 10 MIN, press  MENU to confirm. Press ESC to save and exit.

| CARD CAPACITIES        |                             |
|------------------------|-----------------------------|
| MICRO SD CARD CAPACITY | 640 x 480 (VGA)             |
| 1GB                    | 200 Minutes (8.3 hours)     |
| 2GB                    | 400 Minutes (16.6 hours)    |
| 8GB                    | 1,600 Minutes (66.7 hours)  |
| 16GB                   | 3,200 Minutes (133.3 hours) |
| 32GB                   | 6,400 Minutes (266.7 hours) |

### RECORDING TIME FOR MEMORY CARDS

Note: All numbers are approximate and are for estimating only. Many factors influence actual storage capacities including size of data, quality, aspect ratio and compression used.



## PLAYBACK

| EVENT LIST    |               |               |               |               |
|---------------|---------------|---------------|---------------|---------------|
| DATE          |               |               |               | PAGE 01/01    |
| 2011<br>03-04 | 2011<br>03-05 | 2011<br>03-06 | 2011<br>03-07 | 2011<br>03-08 |
| 2011<br>03-09 | 2011<br>03-10 | 2011<br>03-11 | 2011<br>03-12 | 2011<br>03-13 |
| 2011<br>03-14 | 2011<br>03-15 | 2011<br>03-16 | 2011<br>03-17 | 2011<br>03-18 |
| 2011<br>03-19 | 2011<br>03-20 | 2011<br>03-21 | 2011<br>03-22 | 2011<br>03-23 |

*Playback-Date Folder Menu*

This screen allows you to playback recorded video. Use to select the Date folder you want to view. Press MENU to confirm selection and enter selected folder.


| EVENT LIST         |                    |                    |                    |
|--------------------|--------------------|--------------------|--------------------|
| 12-12-2012         |                    |                    |                    |
| AM12:00<br>AM01:00 | AM02:00<br>AM03:00 | AM04:00<br>AM05:00 | AM06:00<br>AM07:00 |
| AM08:00<br>AM09:00 | AM10:00<br>AM11:00 | PM12:00<br>PM01:00 | PM02:00<br>PM03:00 |
| PM04:00<br>PM05:00 | PM06:00<br>PM07:00 | PM08:00<br>PM09:00 | PM10:00<br>PM11:00 |
| AM12:00<br>AM01:00 | AM02:00<br>AM03:00 | AM04:00<br>AM05:00 | AM06:00<br>AM07:00 |
| AM08:00<br>AM09:00 | AM10:00<br>AM11:00 | PM12:00<br>PM01:00 | PM02:00<br>PM03:00 |
| PM04:00<br>PM05:00 | PM06:00<br>PM07:00 | PM08:00<br>PM09:00 | PM10:00<br>PM11:00 |

*Playback-Time Grid Menu*

Use to select Hour (each block represent one hour time), Press MENU to confirm selection and enter selected folder. NOTE: Each RECORDED FILE folder is indicated with file start / end time and type of file recorded.

## PLAYBACK - CONTINUED

| EVENT LIST           |                      |                      |  |  |
|----------------------|----------------------|----------------------|--|--|
| 09-19-2012           |                      |                      |  |  |
| PAGE 01/01           |                      |                      |  |  |
| PM 10:05<br>PM:10:07 | PM 10:33<br>PM:10:43 | PM 10:48<br>PM:10:53 |  |  |
| 1 2 3 4 M            | 1 2 3 4 X            | 1 2 3 4 S            |  |  |
| PM 10:33<br>PM:10:43 |                      |                      |  |  |
| 1 2 3 4 X            |                      |                      |  |  |



**Channel Record Indicators**

NOTE: The channel indicator 1, 2, 3, 4 in a SOLID square indicates recording type for that channel only. (See 1 at left). The channel indicator 1, 2, 3, 4 all in Hollow squares indicate recording type effects all four channels. (See 2 at left)




*Playback-Date Detail Events*

The type of recorded file (Schedule / Motion / Manual) is indicated by:




S - SCHEDULE Recording: channel selected by user.

M - MOTION channel triggered.

X - CONTINUOUS (Manual) Recording: channel selected by user.

To playback recorded file, use   to highlight the RECORDED FILE. It will turn to red type. Press  MENU to confirm selection and playback selected file. NOTE: By default, playback display will be QUAD (displaying images of all cameras paired).

     = All channel playback



For single camera display, press  MENU once after playback has started to PAUSE. Then use   to select from channel to channel. The channel indicator (bottom left screen) will show the channel number selected. (See 1 below)



     = Channel 1 playback in full screen

     = Channel 2 playback in full screen

     = Channel 3 playback in full screen

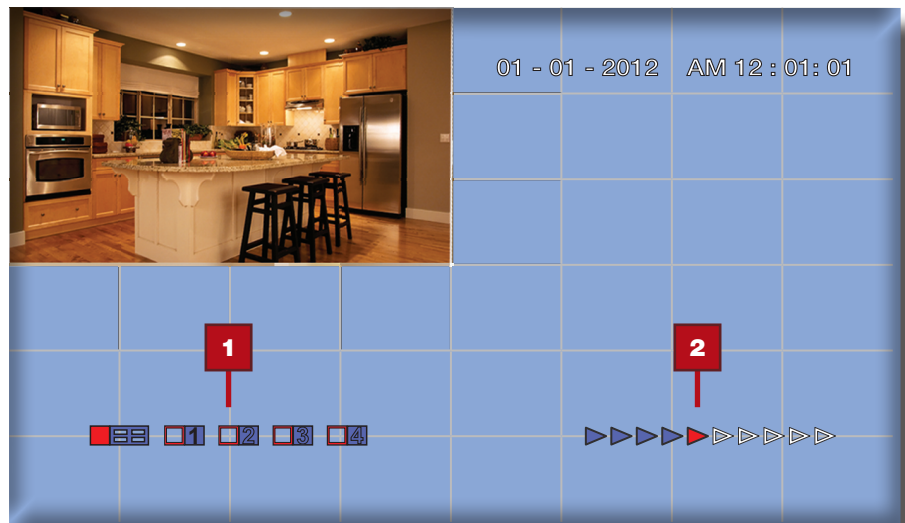
     = Channel 4 playback in full screen

Video progress indicator (See 2 at right) is shown by a series of arrows that turn from blue  to red  during playback. Pressing

the  MENU will pause playback, The red arrow will turn to the pause symbol .

For other control functions available during playback mode, please refer to Section 3 - DVR CONTROLS - Front Face (p.7).

Software is included on the CD provided for playing back the recorded file(s) from the memory card on a PC.

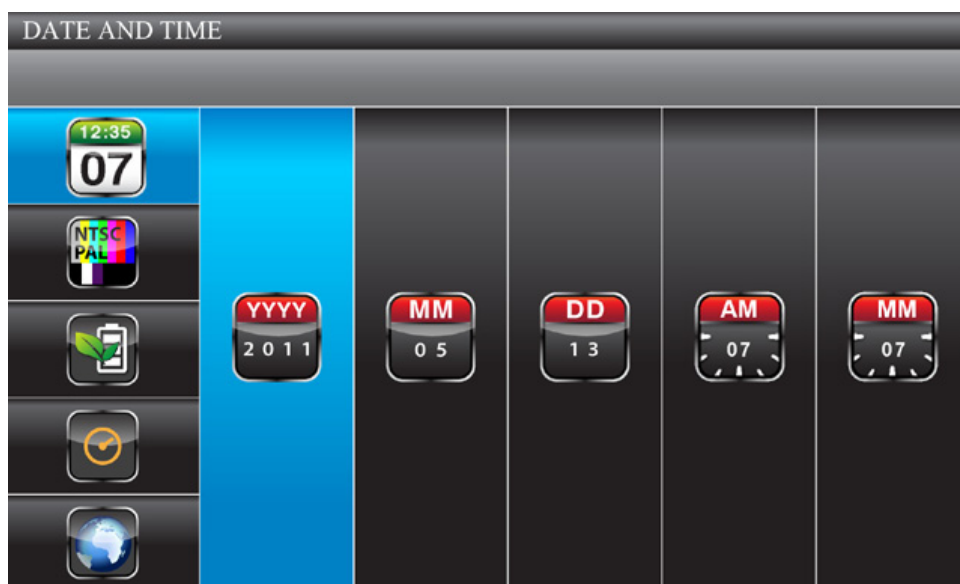


## SYSTEM SETUP








System Setup Menu

## DATE & TIME SETUP



Date and Time Setup Menu

Select SYSTEM SETUP and press  MENU to enter sub-menu. Use   to highlight and adjust: YEAR / MONTH / DATE / HOUR / MINUTE. Use   adjust each section and press  MENU to confirm adjustment. Press ESC to save and exit.





### 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.

## POWER SAVING

*Power Saving Setup Menu*

Select SYSTEM SETUP, press  MENU to enter. Use  $\triangle$ / $\nabla$  to select POWER SAVING. Use  $\triangleleft$ / $\triangleright$  to highlight SCREEN OFF AFTER 5 MINUTES IDLE / SCREEN OFF AFTER 10 MINUTES IDLE / SCREEN ALWAYS ON. Press  MENU to confirm selection. Press ESC to save and exit.

*Power Saving - 5 Minutes**Power Saving - 10 Minutes**Power Saving - Always On*

### MULTI CHANNELS IDLE DISPLAY SETUP



*Multi Channels Idle Display Setup Menu*

Select SYSTEM SETUP, press MENU to enter. Use  $\triangle$ / $\nabla$  to select MULTI CHANNELS IDLE DISPLAY. Use  $\triangleleft$ / $\triangleright$  to highlight DISPLAY QUAD DURING IDLE / AT 5 SEC INTERVALS / AT 10 SEC INTERVALS / AT 15 SEC INTERVALS. Press MENU to confirm selection. Press ESC to save and exit.

NOTE: (1) Camera ON/OFF setting in CAMERA SETUP section will affect which camera(s) can be displayed during IDLE DISPLAY. (2) Audio (single channel at anytime) will be available during QUAD mode (by default on channel 1 or the next available channel with camera paired to system), single FULL screen mode (auto switch to channel viewing at the time), or channel triggered by motion. (3) Audio channel will stay connected until channel switched. (4) If set to 5/10/15 sec. interval then select SCAN ACTIVATED CAMERAS to achieve this display mode.



*Idle Display - QUAD*



*Idle Display - 5 Seconds*



*Idle Display - 10 Seconds*

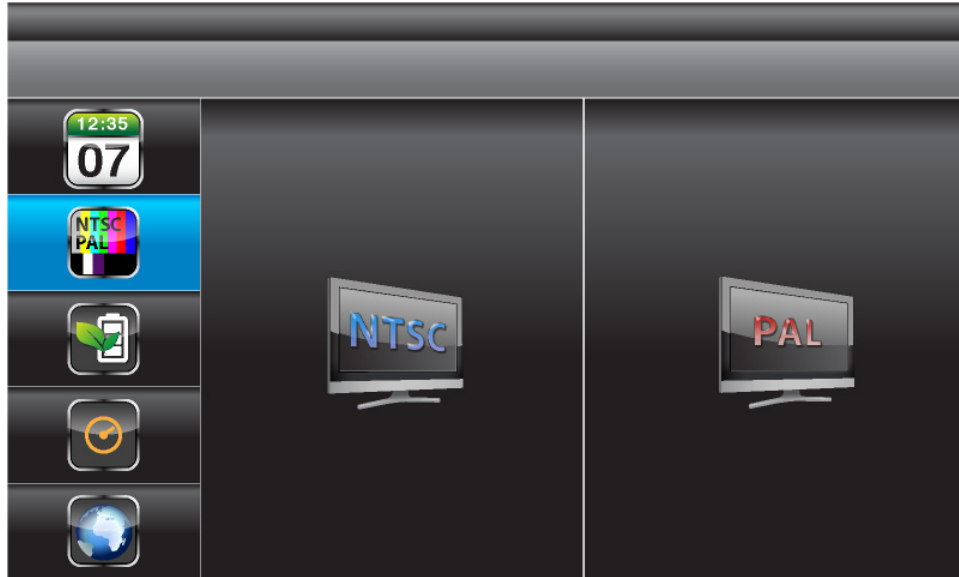


*Idle Display - 15 Seconds*

# 5

## SYSTEM OPERATION TV OUT & LANGUAGE SETUP

### TV OUT SETUP (NTSC OR PAL)



TV Out Setup Menu

Select SYSTEM SETUP, press  MENU to enter. Use  $\triangle$   $\nabla$  to select TV OUTPUT.


Use  $\triangleleft$   $\triangleright$  to highlight NTSC or PAL. Press  MENU to confirm selection. Press ESC to save and exit.  
NOTE: Changing the TV system may affect display image scale.

### LANGUAGE



Default Menu


Select SYSTEM SETUP, press  MENU to enter. Use  $\triangle$   $\nabla$  to select DEFAULT.

Use  $\triangleleft$   $\triangleright$  to select the system language for SYSTEM RESTORE, press  MENU to confirm selection and system will restore to factory default. Press ESC to save and exit. NOTE: While SYSTEM RESTORE icon is highlighted, the system firmware version will be displayed (example: VER:11.06.11-21:13:09)

## ALARM BUZZER












*Alarm Buzzer Menu*

Select ALARM BUZZER, press  MENU to toggle buzzer ON or OFF. When motion is detected by a camera, then a buzzer sound will be triggered by the monitor.

## ZOOM




*Zoom Menu*

Select ZOOM, press  MENU to enter ZOOM Mode. Press  MENU again to zoom in 2X. When zooming in use     to select various views. Press  MENU to zoom out. In zoom out (1X), use   to change available channel. Press ESC to exit ZOOM.

## SCAN ACTIVATED CAMERAS





Scan Activated Cameras

Select SCAN ACTIVATED CAMERAS, press  MENU to begin camera scan mode. NOTE: (1) Camera ON/OFF setting in CAMERA SETUP section will affect which camera(s) can be displayed during IDLE DISPLAY. See p.25 for the display interval setup. (2) The system will automatically activate QUAD display if recording function is activated.

## MEMORY CARD OVERWRITE



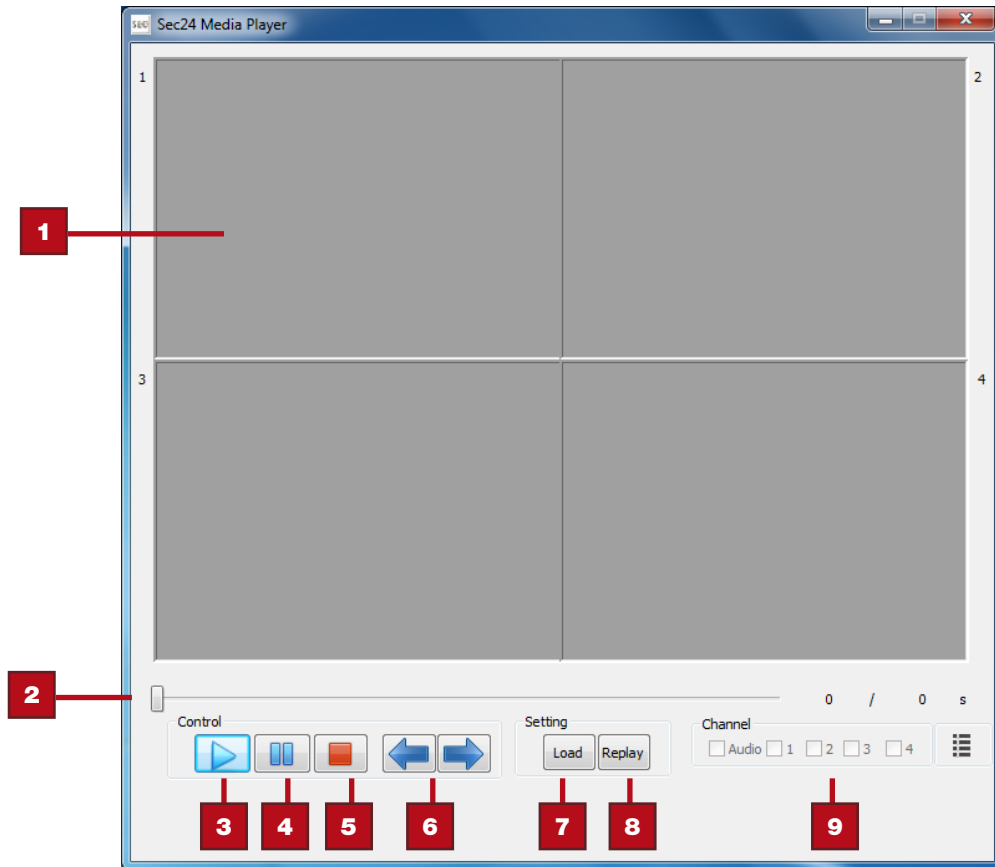
Memory Card Overwrite

Select MEMORY CARD OVERWRITE, press  MENU to activate overwrite function and press  MENU again to de-activate. NOTE: (1) One of the following examples will appear on display screen a) 1.89GB - space available on memory card. b) ERROR - either memory card is missing, locked or damaged. (2) When memory card is full, the system will display “MEMORY FULL PLEASE FORMAT” on the preview screen if overwrite is not enabled.



## PC PLAYBACK SOFTWARE

The Sec24 Media Player is specifically designed to playback on your PC recorded files from the Micro SD card. You must install the software provided on the CD that is included with your DVR Kit. The following is an overview of the software.




PC Playback Software - Sec24 Media Player

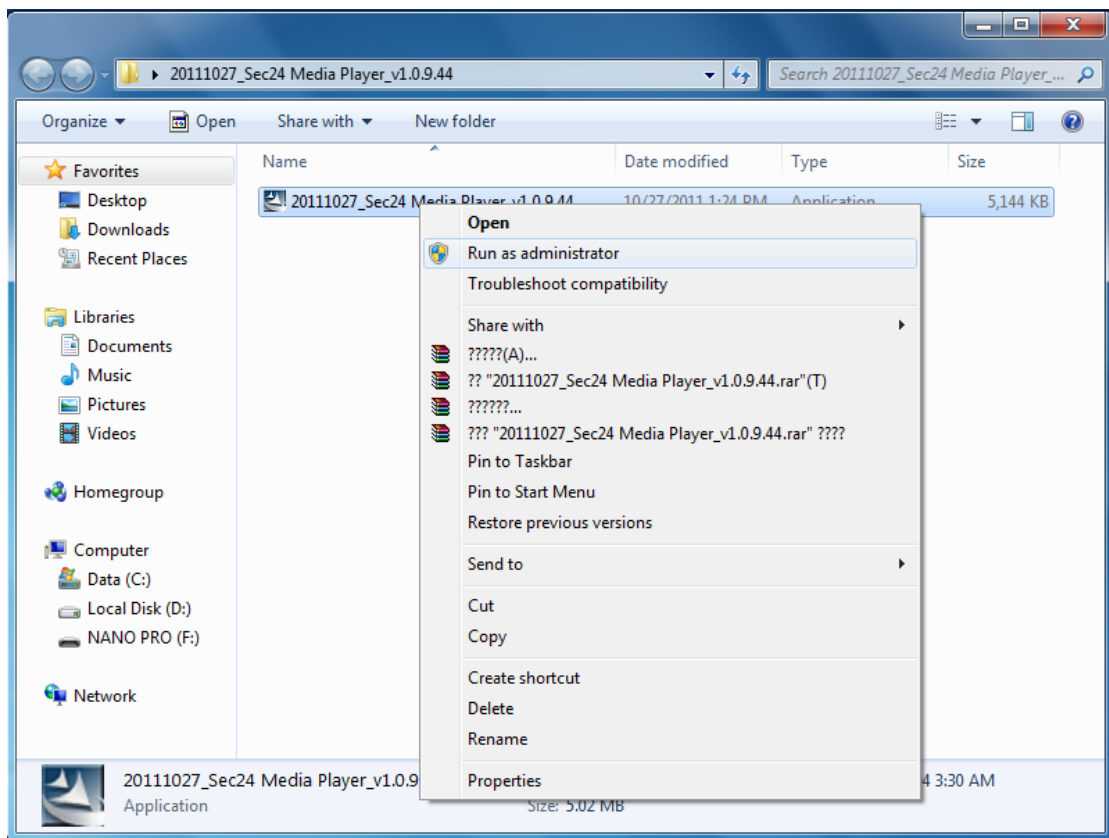
| ITEM | INDICATOR NAME          | DESCRIPTION                                   | INDICATORS |
|------|-------------------------|---|------------|
| 1    | Channel Playback Screen | Shows camera channel being viewed             |            |
| 2    | Playback Progress Bar   | Shows progress of playback file               |            |
| 3    | Play                    | Shows status of signal strength               |            |
| 4    | Pause                   | Shows battery strength                        |            |
| 5    | Stop                    | Shows Quad, Scan or Single Display mode       |            |
| 6    | Fast Forward & Rewind   | Naviagate through recorded file               |            |
| 7    | Load                    | Load Recorded Files                           |            |
| 8    | Replay                  | Replay the last file viewed                   |            |
| 9    | Channel Select          | Enable/Disable channels and audio on playback |            |

## PLAYBACK SOFTWARE - INSTALLATION

Insert the CD into the CD-ROM of your PC. Click on MY COMPUTER, double click on the drive where the CD-ROM is assigned by the PC (for example: E:\). In this drive you will find the following icon.

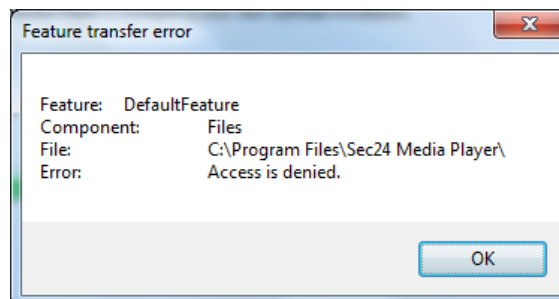
 20111027\_Sec24 Media Player\_v1.0.9.44

If Windows 7 is running on your PC, please right click on icon “20111027\_Sec24 Media Player\_v1.0.9.44” and select “Run as administrator” option first to begin installation. Other Windows version will be similar.



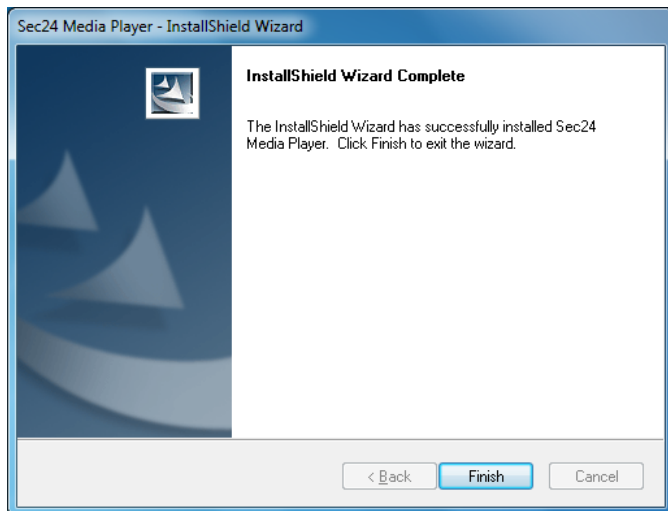
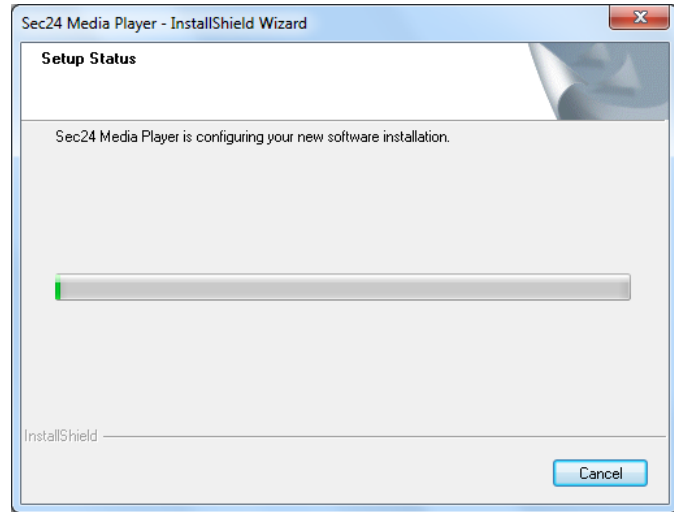
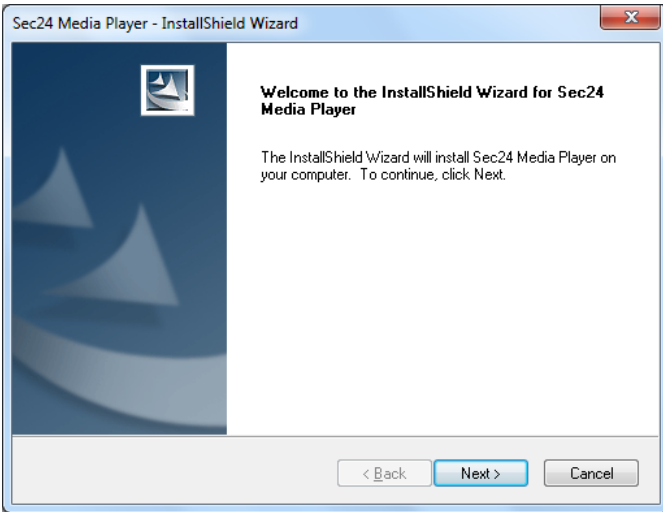
*Windows 7 - Run as Administrator Dialog Box*

The following error message will appear if you did not select “Run as administrator” option first before starting the installation. Please repeat instructions above then double click the icon to start the installation process.



*Error Dialog Box*

Follow the screens as shown below to complete the installation process.



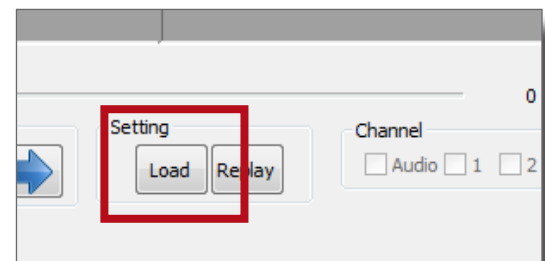
The following icon should have been placed on your desktop. Double click the Sec24 Media Player icon on the desktop to start the software.



Click on “Load” to import and playback previous recorded files (SNX files) already stored on your PC.

**NOTE:** You will first need to save the files from the Micro SD card to the PC. Your PC will need to have a Micro SD card reader. If your PC only has a SD card reader you will need to use a Micro SD to SD memory card adaptor.

During playback, all four channels will playback at once. For privacy, the user is able to manually disable audio on all channels and/or video on one or more channels via the CHANNEL section of the playback software screen.



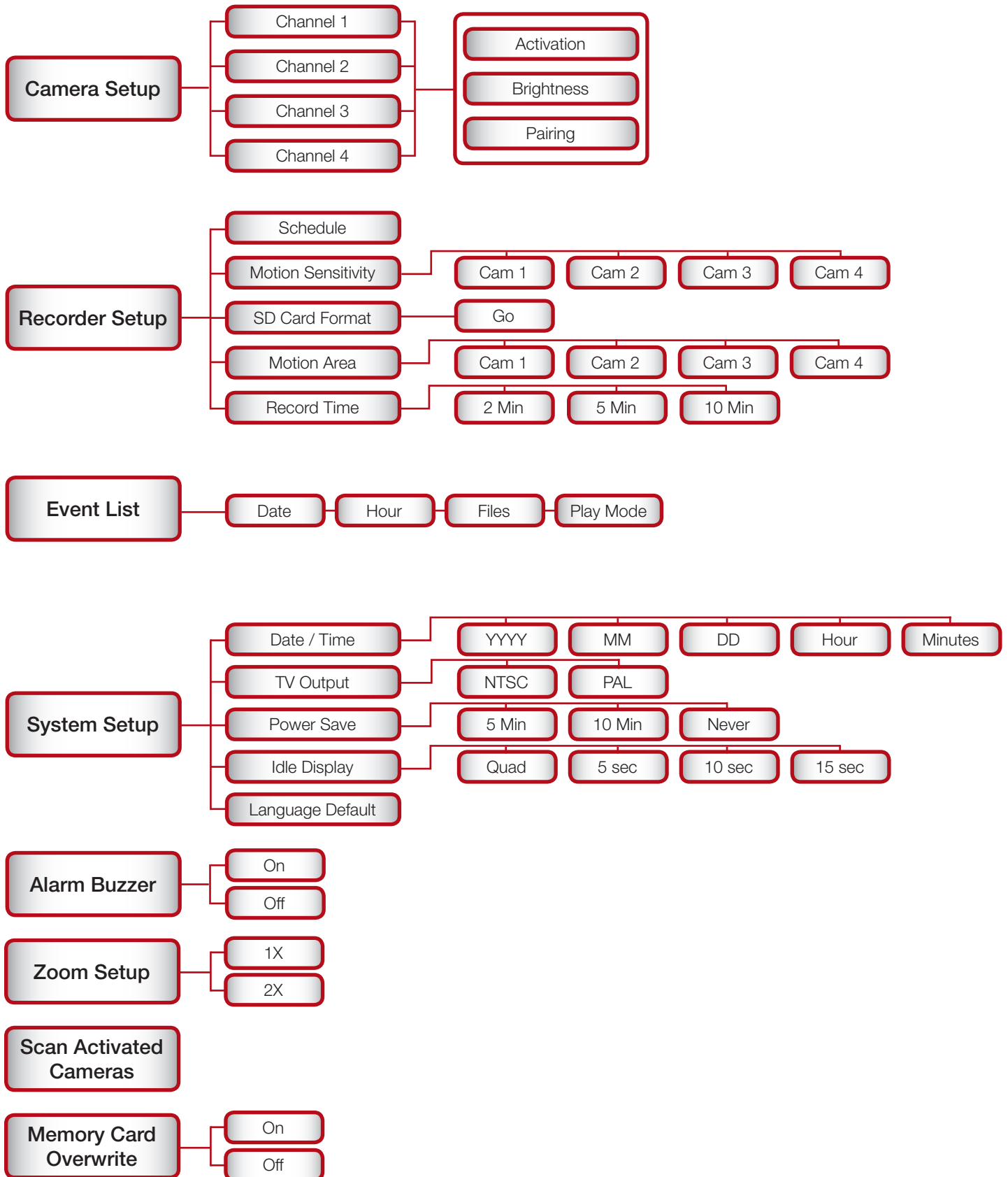
# 7

# APPENDIX TROUBLESHOOTING

## TROUBLESHOOTING

| ERROR   | POSSIBLE CAUSE  | SOLUTIONS  |
|---|---|--|
| System is not receiving power or is not powering up   | Cable from power adapter is loose or is unplugged. No power at electrical outlet.                             | <ul style="list-style-type: none"> <li>• Confirm that all cables are connected correctly.</li> <li>• Confirm that the power adapter is securely connected to the back of the unit.</li> <li>• Confirm power is on at electrical outlet.</li> </ul>   |
| SD Card is not detected by the system   | SD Card is not formatted  | <ul style="list-style-type: none"> <li>• Format SD card per instructions.</li> </ul>   |
| There is no picture on selected channels/camera picture is not being displayed                                    | Camera out of range   | <ul style="list-style-type: none"> <li>• Locate camera closer to receiver.</li> </ul>  |
|   | Camera not "Paired"   | <ul style="list-style-type: none"> <li>• Connect camera through Camera Pairing menu.</li> </ul>  |
|   | Signal is blocked   | <ul style="list-style-type: none"> <li>• If possible, remove major obstacles in between the camera and the receiver. Or, relocate the camera to another location.</li> </ul>   |
|   | The power supply for the camera is not plugged in   | <ul style="list-style-type: none"> <li>• Confirm camera power supply is connected correctly.</li> </ul>  |
| At night, only white appears on the screen  | The camera's infra-red LEDs shine invisible light that reflects of surfaces such as glass causing white light | <ul style="list-style-type: none"> <li>• Place the camera on the other side of windows to try to improve the night vision or place in a well lit area.</li> </ul>  |
| A black and white image appears at night  | This is normal operation for night vision   | <ul style="list-style-type: none"> <li>• No action required.</li> </ul>  |
| The system will not record under SCHEDULE/MOTION detection setting  | System not set up correctly or memory card is missing   | <ul style="list-style-type: none"> <li>• Ensure correct DATE AND TIME has been set and the Record Schedule setup correctly.</li> <li>• Ensure the memory card is inserted into DVR and formatted</li> </ul>  |
| SD Card is full (0% remaining) and the unit is no longer recording. "MEMORY FULL PLEASE FORMAT" is on the screen. | Overwrite is not enabled  | <ul style="list-style-type: none"> <li>• Enable Memory Card Overwrite or</li> <li>• Re-format memory card.</li> </ul>  |
| The recording on the DVR appears but does not have sound  | Mute is on  | <ul style="list-style-type: none"> <li>• Turn Mute off. This feature is used to record images without sound for legal purposes. See page 14 for audio recording caution statement and details.</li> </ul>  |
| Channel(s) disappear during auto or manual scan   | Channel(s) has been turned OFF  | <ul style="list-style-type: none"> <li>• Turn Camera (s) ON in Camera Setup menu.</li> </ul>   |
| Poor image quality  | Interference  | <ul style="list-style-type: none"> <li>• Place the camera and/or receiver antenna at a new angle or readjust its position to make an improvement.</li> <li>• Remove obstacles between the camera and receiver that might affect the signal (e.g., furniture, cabinets, and walls.)</li> <li>• Relocate the camera closer to the receiver.</li> </ul> |
|   | Antenna direction is limited  | <ul style="list-style-type: none"> <li>• Adjust the camera antenna and receiver position</li> </ul>  |
| Low or unstable signal  | Signal has been blocked   | <ul style="list-style-type: none"> <li>• If possible, remove major obstacles in between the camera and receiver. Or, relocate the camera to another location.</li> </ul>   |
|   | Strong radio signal nearby  | <ul style="list-style-type: none"> <li>• Keep WIFI router away from the camera and/or receiver.</li> </ul>   |
|   | Strong electromagnetic interference nearby  | <ul style="list-style-type: none"> <li>• Keep active appliances such as hair dryers, heat fans, air conditioners, water pumps, or microwave ovens away from the camera and/or receiver.</li> </ul>   |
| Audio Feedback  | Camera and receiver are too close   | <ul style="list-style-type: none"> <li>• The camera has a high sensitivity microphone. Keep the camera at least 10 feet away from the receiver. If the camera must be within 10 feet of the receiver, keep the volume down.</li> </ul>   |

## SYSTEM MAP



## TECHNICAL SPECIFICATIONS

| ITEM            | DEVICE PARAMETER  | SPECIFICATION   | SPECIFICATIONS |
|-----------------|---|---|----------------|
| <b>Receiver</b> | Channels  | 4   |                |
|                 | Screen Type   | 7" LCD 16:9   |                |
|                 | Monitor Resolution  | 800 x 480   |                |
|                 | Video Format  | NTSC (default)/PAL  |                |
|                 | Wireless Parameters   | 2.4 GHz secure digital wireless with 24 transmission channels using Frequency Hopping Spread Spectrum (FHSS) technology             |                |
|                 | Compression Format  | MPEG-4  |                |
|                 | Recording Resolution  | 320 x 240   |                |
|                 | Communication Range   | Approximately 500 feet (150 meters) open space line of sight  |                |
|                 | Recording Modes   | Manual/Schedule/Motion Detection  |                |
|                 | Output  | Supports real-time AV preview and recording up to VGA @ 25 FPS(Single Camera Mode) or QVGA @ 25fps/CH (Multiple camera mode)        |                |
|                 | Language  | English, Spanish, French  |                |
|                 | Zoom  | 2X Digital Zoom   |                |
|                 | Memory Card   | 4GB Micro SD card included. Supports max. to 32GB micro SDHC memory card.   |                |
|                 | Motion Block Mask   | 48 (8 x 6 grid) zones to block motion detection   |                |
|                 | Operating Temperature   | 14 °F to 122 °F (-10 °C to 50°C)  |                |
|                 | Operating Voltage   | DC 5V / 1A  |                |
|                 | Current Consumption   | 860mA (max)   |                |
| Battery         | Rechargeable 3.7V 2000mAh (LI-ON); Life: 3 hours (Power Saving Off) |   |                |
| Dimensions      | 7.9" (200mm) x 4.8" (122mm) x 1" (25mm)                             |   |                |
| <b>Camera</b>   | Camera Resolution   | 640 x 480   |                |
|                 | IR LED's  | 25  |                |
|                 | IR Cut Filter   | Automatic for daytime true color  |                |
|                 | Weather Resistant Rating  | IP-66   |                |
|                 | Night Vision  | 60' (18m)   |                |
|                 | Operating Temperature   | 14 °F to 122 °F (-10 °C to 50°C)  |                |
|                 | Operating Voltage   | DC 5V / 1A  |                |
|                 | Current Consumption   | 860mA (max)   |                |
|                 | Dimensions  | 4.8"D (123mm) x 2.6"W (65mm) x 2.6"H (65mm) camera barrel only<br>6.2"D (157mm) x 2.75"W (70mm) x 8.5"H (216mm) w/stand and antenna |                |

## WARRANTY

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### 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.



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