7” Touch Screen Wireless Surveillance System

User Guide

Model AWS2155

Please read these instructions completely before operating this product.
# TABLE OF CONTENTS

**IMPORTANT SAFETY INSTRUCTIONS** .............................................................................................................. 3

**INTRODUCTION** .................................................................................................................................................. 6
   System Contents .................................................................................................................................................. 6
   Getting to Know Your LCD Touch Screen Monitor ......................................................................................... 7
   Getting to Know Your Camera ......................................................................................................................... 8

**INSTALLATION** .................................................................................................................................................. 9
   Installation Tips .................................................................................................................................................. 9
   Night Vision ...................................................................................................................................................... 9
   Setting Up the Monitor ...................................................................................................................................... 10
   Connecting the Monitor to a TV .......................................................................................................................... 12
   Connecting the Monitor to a Computer ............................................................................................................... 13
   Installing the Camera(s) .................................................................................................................................. 14

**SYSTEM INTRODUCTION** ................................................................................................................................. 16
   Live Screen and Menu ........................................................................................................................................ 16
   Description of Icons ........................................................................................................................................... 17
   Live Screen Displays .......................................................................................................................................... 19
   Single Camera View ......................................................................................................................................... 20
   Adjusting the Volume ......................................................................................................................................... 21
   Recording Live Video ...................................................................................................................................... 22

**SYSTEM MENU** .................................................................................................................................................. 23
   Camera Pairing .................................................................................................................................................. 24
   Setting the Camera’s Brightness ......................................................................................................................... 25
   Turning a Camera On or Off .............................................................................................................................. 26
   Schedule Recording .......................................................................................................................................... 27
   Motion Sensitivity ............................................................................................................................................... 28
   Formatting the Micro SD Card ............................................................................................................................ 29
   Masking Areas During Motion Detection ....................................................................................................... 30
   Record Time ...................................................................................................................................................... 32
   Event List ........................................................................................................................................................... 33
   Event List Controls ........................................................................................................................................... 34
   Deleting a Video ................................................................................................................................................ 35
   Setting the Date/Time ......................................................................................................................................... 36
   Setting NTSC/PAL ............................................................................................................................................. 37
   Power Saving ...................................................................................................................................................... 38
PRODUCT SAFETY: When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. Improper use of this product can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before installation and use, and keep these instructions handy for future reference.

CAUTION: To reduce the risk of electric shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

DANGEROUS VOLTAGE: The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

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

Products with CE Marking comply with EMC Directive (2004/108/EC); Low Voltage Directive (73/23/EEC); R&TTE (1999/5/EC); ROHS Directive (2011/65/EU) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

EMC: EN 301 489     LVD: EN 60950     Radio: EN 300 328

FCC Compliance Statement: This device complies with Part 15 of the FCC rules. Operation is subjected 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/CE WARNING
This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to Part 15 of the FCC rules and ETSI (EN) 300328. These limits are designed to provide reasonable protection against harmful interference in residential installations. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television equipment 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.
• Move the equipment away from the monitor.
• Plug the equipment into an outlet on a circuit different from that to which the monitor is connected.
• Consult the dealer or an experienced radio/television technician for additional suggestions.

CAUTION: Any changes or modifications to this equipment not expressly approved by the party responsible for compliance could void your authority to operate the equipment.
Recycling and Disposal Information:

- Do not dispose of electronic devices or any of their components (especially batteries and LCD displays) in your municipal trash collection.
- Consult your local waste management authority or a recycling organization like Earth911.com to find an electronics recycling facility in your area.

CAUTION: Rechargeable batteries must be recycled or disposed of properly.

Lithium-Polymer Battery Warning

- This equipment contains a rechargeable lithium-polymer battery.
- Do not charge the battery in temperatures below 32° F (0° C) or higher than 113° F (45° C).
- Do not open or mutilate the battery.
- The rechargeable batteries contained in this equipment may explode if disposed of in a fire.
- Do not short-circuit the battery.
- Do not charge the rechargeable battery pack used in this equipment with any charger other than the one designed to charge this battery pack as specified in the owner’s manual. Using another charger may damage the battery pack or cause the battery pack to explode.

WARNING: STRANGULATION HAZARD: Infants have STRANGLLED in power cords. Keep power cords more than 3 feet away from cribs, bassinets, play yards, and other safe sleep environments for infants.

IMPORTANT SERVICE SAFETY INSTRUCTIONS

Damages caused by non-compliance with this operating manual will void the warranty!

1. Read and Follow Instructions - All the safety and operating instructions should be read before the product is operated. Follow all operating instructions.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - Comply with all warnings on the product and in the operating instructions.
4. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your location, consult your video dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
5. Overloading - Do not overload wall outlets or extension cords as this can result in the risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorated insulation, have it replaced by your service technician.
6. Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
7. Surge Protectors - It is highly recommended that the video equipment be connected to a surge protector. Doing so will protect the equipment from damage caused by power surges. Surge protectors should bear the UL listing mark or CSA certification mark.

8. Uninterruptible Power Supplies (UPS) - Because this product is designed for continuous, 24/7 operation, it is recommended that you connect the product to an uninterruptible power supply. An uninterruptible power supply has an internal battery that will keep the product running in the event of a power outage. Uninterruptible power supplies should bear the UL listing mark or CSA certification mark.

CAUTION: Maintain electrical safety. Power line operated equipment or accessories connected to this product should bear the UL listing mark or CSA certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.

9. Ventilation - Slots and openings in the case are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video equipment on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the product manufacturer’s instructions have been followed.

10. Attachments - Do not use attachments unless recommended by the product manufacturer as they may cause a hazard.

11. Water and Moisture - Do not use receivers or video monitors near water — for example, near a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement, near a swimming pool and the like.

12. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

13. Accessories - Do not place this video equipment on an unstable cart, stand, tripod, or table. The video equipment may fall, causing serious damage to the product. Use this product only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer’s instructions and use a mounting accessory recommended by the manufacturer.

14. Camera Extension Cables - Check the rating of your extension cable(s) to verify compliance with your local authority regulations prior to installation.

15. Mounting - The cameras provided with this system should be mounted only as instructed in this guide or the instructions that came with your cameras, using the provided mounting brackets.

16. Camera Installation - Cameras are not intended for submersion in water. Not all cameras can be installed outdoors. Check your camera’s environmental rating to confirm if it can be installed outdoors. When installing cameras outdoors, installation in a sheltered area is recommended.
System Contents

After unpacking, you will have the following items:

- Monitor x 1
- Camera x 2
- Antenna x 2
- Quick Start Guide x 1
- AV Cable
- Micro SD Card x 1
- Screw/Anchor Kit x 2
- AC Adapter x 3
- Camera Bracket x 2
- Extension Cable x 2

Getting to Know Your LCD Touch Screen Monitor

- Wireless Signal Indicator
- Power Indicator
- Monitor Touch Screen
- Antenna
- Power Button
- Stand
- SD Card Slot
- USB Jack
- Reset Button
- AV Out Jack
- Power Jack
Night Vision

The camera has built-in infrared LEDs to allow you to view at night for 24-hour surveillance. The LEDs will automatically activate at night and the picture viewed will turn to black and white. The night viewing range is up to 40 feet.
Setting Up the Monitor

1. Flip out the stand on the back of the monitor. Connect the AC adapter to the power jack on the side of the monitor.

2. Put the Antenna up.

3. Insert a Micro SD Card (up to 32GB) into the Micro SD Card Slot. This will allow you to record videos.

4. Connect the other end of the adapter to a 120 volt AC (standard indoor) power outlet; the Power indicator will light green if connected to AC.
   When connected to an AC Outlet, the rechargeable battery will be charged.

   Press and hold the **Power** button on the top of the monitor for 2-3 seconds to power it up; the Power indicator will light yellow (On), if connected to an AC outlet, or red if using the internal batteries.

   The monitor displays the Welcome screen for a few seconds and then transitions to the Live Quad view.

   Connect the camera(s) as shown on page 14.

5. To turn the unit off, press and hold the **Power** button on the top of the monitor for 2-3 seconds; the Power indicator will light green if connected to AC or turn off if using the rechargeable battery.

   TIP: You can skip the AC adapter step if the unit is charged and you want to use the unit using the rechargeable battery.
Connecting the Monitor to a Computer

The USB jack allows you to connect the system to a PC and view the cameras remotely. Both the PC and AWS2155 must be turned on to remotely view the cameras.

1. Connect the small end of the USB cable to the side of the monitor.

   ![USB connection image]

   **TIP:** You cannot use a Mac to connect to this system. It must be a PC with the following specs:
   - Celerib 1.5 GHz processor or above
   - Memory: 4GB or above
   - Internet Upload Speed: 512kbp/s or above
   - OS: Windows 7, Windows 8 32-bit

2. Connect the other end of the USB cable to your PC’s USB jack.

   ![USB connection image]

   See page 45 to install and use the Observer App to remotely connect.

Connecting the Monitor to a TV

**TIP:** Connect to an external TV to view the video on a larger screen.

1. Connect the single end of the AV Cable to the AV Out Jack on the side of the monitor.

   ![AV connection image]

2. Connect the red end to the Audio In jack of your TV and the yellow end to the Video In jack.

   ![AV connection image]

   Turn your TV on and set it to the same input as you connected the system to.

3. Connect the side of the monitor to your TV.

   ![Monitor connection to TV image]
Installing the Camera(s)

1. If not mounting, but just using on a flat surface (desk, table, etc.), skip to step 4.

2. Secure the multi-position Camera Bracket to a stable surface, ceiling or wall using the three supplied screws. If needed, three anchors are also included.

3. Loosen the T-Bolt on the Camera Bracket and adjust viewing angle using the Thumb Screw to rotate position.

4. **BOTTOM/SURFACE MOUNT:**
   - Align Mounting socket on bottom of the camera with T-Bolt and screw camera onto the T-Bolt until it is in the desired position.
   - Tighten the Brace against the camera to secure it in place.
   - Set the desired camera angle and then tighten the Thumb Screw.

5. **CEILING MOUNT:**
   - Align Mounting socket on top of the camera with T-Bolt and screw camera onto it until it is in the desired position.
   - Tighten the Brace against the camera to secure it in place.
   - Set the desired camera angle and then tighten the Thumb Screw.

6. Connect one end of an AC adapter to the camera’s power pigtail and plug the other end of the adapter to a 120 volt AC (standard indoor) power outlet.

7. After up to 60 seconds, make sure the Power status LED turns red and the Link Status LED turns green. If it doesn’t, try reconnecting the AC adapter, and make sure the power outlet is not controlled by a wall switch.

   You should now have video on your Live screen.

   Repeat steps for additional camera(s).

   **TIP:** Pair additional cameras as shown on page 24.

TIP: A 6 foot power extension cable is included for your camera setup if needed.
### Live Screen and Menu

Your monitor’s system software operates through a series of screens that let you choose groups of operations. For example, when you tap on the Arrow (Open/Close) icon, it brings up icons that will allow you to change the settings on this monitor or camera.

The Live screen lets you view the camera transmissions. It also lets you set up your screen display and make adjustments to it.

#### Description of Icons

<table>
<thead>
<tr>
<th>Icon Description</th>
<th>Icon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displays the camera number.</td>
<td><img src="image" alt="Camera Number Icon" /></td>
</tr>
<tr>
<td>When the Quad display is on the screen, this icon will indicate which camera’s mic is being sent to the monitor. Video and sound is recorded from the camera displaying this icon. Cameras not displaying this icon record video only.</td>
<td><img src="image" alt="Volume Icon" /></td>
</tr>
<tr>
<td>Displays signal strength of camera.</td>
<td><img src="image" alt="Signal Strength Icon" /></td>
</tr>
<tr>
<td>Indicates monitor is in Quad display.</td>
<td><img src="image" alt="Quad Display Icon" /></td>
</tr>
<tr>
<td>Tap this icon to open and close the pop up menu display.</td>
<td><img src="image" alt="Open/Close Icon" /></td>
</tr>
</tbody>
</table>

**TIP:** The system always defaults to the Live screen after being idle for two minutes while in most other system screens, unless the option is changed, as shown on page 39.

See the following page for descriptions of the icons.
### Description of Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Icon Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Change Display 1</strong></td>
<td>Tap to enter Single display. This icon will then turn into a camera icon. Tap again to cycle through cameras or to change back to Quad display.</td>
</tr>
<tr>
<td>Speaker</td>
<td>Tap to adjust the speaker volume. The volume level will appear next to this icon.</td>
</tr>
<tr>
<td><strong>Record</strong></td>
<td>Tap to start recording; the icon will turn red. Tap again to stop recording.</td>
</tr>
<tr>
<td>Options</td>
<td>Tap to enter the System menu, see page 23.</td>
</tr>
<tr>
<td><strong>Change Display 2</strong></td>
<td>Tap to change the display to another camera or to Quad display. The camera number will appear next to this icon.</td>
</tr>
</tbody>
</table>

### Live Screen Displays

The Live screen displays in two views: Quad View or Full View. Quad View divides the screen’s image area into four quadrants and displays camera video in each quadrant. If less than four cameras are connected and on, only those cameras’ videos will display on the Live screen. The other sections of the screen where no cameras are connected will be blank.

**Quad View**

**Full View**
SYSTEM INTRODUCTION

Single Camera View

To change camera views, perform the following:

1. If you are in Quad View, tap on the Open/Close icon to open the menu options.

```
[Image of a finger tapping on the Open/Close icon]
```

2. Tap the Change Display 1 icon.

```
[Image showing the single camera view]
```

3. The display will change to single camera display. Tap the Change Display 2 icon to cycle through the cameras and/or back to Quad view.

```
[Image showing the single camera view]
```

**TIP:** If the screen is not tapped within two minutes, it will revert back to the Quad display.

Adjusting the Volume

Adjust the camera’s audio on the monitor as follows:

1. Tap on the Open/Close icon to open the menu options.

```
[Image of a finger tapping on the Open/Close icon]
```

2. Tap the Speaker icon repeatedly to set the sound from 7 (highest) to 0 (muted).

```
[Image showing the volume control]
```
Recording Live Video

To record live video:

1. Make sure the supplied Micro SD card is inserted into the SD Card Slot, see page 10.
   Tap on the Open/Close icon to open the menu options.
   **TIP:** You cannot enter the System menu while recording.

2. Tap the Record icon to start recording, the Record icon will turn red.
   **TIP:** If you attempt to record in Single display view, it will change to Quad view unless only one camera is turned on, as on page 26.

3. To stop recording, tap the icon again. Note that you have to wait 14 seconds before you can stop recording as indicated by the text on the screen, “REC IN PROGRESS WAIT XX SEC”.

See the Event List section starting on page 33 to play back recorded video.

System Menu

1. Tap on the Open/Close icon to open the menu options.

2. Tap the Options icon to enter the System menu.
   **TIP:** If recording, you cannot enter the Options menu.

3. The following screen will appear. See the following pages for the System settings.

4. When in a Setting screen, tap the return arrow to return to the previous screen.
Camera Pairing

Your cameras are paired to the monitor at the factory to channels 1 and 2. When you add a new camera to your system, you have to “introduce” the camera and monitor to each other so they can communicate.

1. Follow steps 1 through 3 on the previous page to access the System Menu. Tap Camera Setup icon to access the Camera Setup screen.

2. Tap the desired camera to pair.

3. Tap the Pairing icon, “PAIRING” will appear at the top left of the screen.

4. “PAIRING FAIL” will appear if the pairing failed. Move the camera closer and try again.

5. Press and Hold the Pairing button on that camera’s power cord until PAIRED appears in the display. The Green Link Status LED will light in the camera. If a camera is already assigned to the selected channel, the monitor overwrites that camera link with the new one.

Setting the Camera’s Brightness

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Camera Setup icon to access the Camera Setup screen.

2. Tap the desired camera that you want to adjust the brightness on.

3. Repeatedly tap the Brightness icon to adjust the brightness. The more bars, the brighter the video will be.

4. When done setting, tap the icon to return to the previous screen.
### Turning a Camera On or Off

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **Camera Setup** icon to access the Camera Setup screen.

2. Tap the desired camera that you want to turn on or off.

3. Repeatedly tap the **On/Off** icon to cycle between On or Off.

When done setting, tap the **icon to return to the previous screen.**

### Schedule Recording

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **Record Setup** icon to access the Record Setup screen.

2. Tap the **Record Schedule** icon.

3. Tap a desired time to cycle through the set up options as follows:

   **M (MOTION):** When M is selected the unit will start recording only when motion is detected at the selected time. It will record for the set amount of minutes as shown on page 32.

   **S (SCHEDULE):** When S is selected the unit will start recording at the selected time.

   **X (MANUAL):** When X is selected the unit will only record when the record button is tapped.

   When the next hour is reached, the unit will change to that setting.

   When done setting, tap the **icon to return to the previous screen.**
Motion Sensitivity

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Record Setup icon to access the Record Setup screen.

2. Tap the Motion icon.

3. Repeatedly tap the desired camera icon to set the motion sensitivity.

When done setting, tap the icon to return to the previous screen.

Formatting the Micro SD Card

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Record Setup icon to access the Record Setup screen.

2. Tap the Format icon.

3. To format the inserted micro SD card, tap the main Format icon in the middle of the screen; the card will then be formatted and FORMAT OK will appear at the top left.

When done setting, tap the icon to return to the previous screen.
Masking Areas During Motion Detection

This feature will allow you to mask areas of the screen from detecting motion and activating the motion detector recording for that area. For example, if a pet sets off the sensor, you can mask the lower areas that the pet would be visible in, or if a tree branch moving in the wind sets it off, you can mask the areas where the tree branch is in the video.

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Record Setup icon to access the Record Setup screen.

2. Tap the Motion Masking icon.

3. Tap the desired camera.

4. The Full View of the selected camera will appear along with a grid.

5. Tap a block to mask it; the block will turn blue. To un-mask a block, simply tap it again.

When done setting, tap the icon to return to the previous screen.
Record Time

This feature will allow you to set the desired recording time that is performed after motion recording is activated.

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Record Setup icon to access the Record Setup screen.

2. Tap the Record Time icon.

3. Tap the desired clock to set the Motion Record Time (2 minutes, 5 minutes or 10 minutes).

When done setting, tap the icon to return to the previous screen.

Event List

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Event List icon to access the Event List screen.

2. Tap the desired date.

TIP: If there is more than one page, tap the icons to move up or down respectively.

3. Tap the desired time frame.
4. The following screen will show the recording(s). Tap a desired recording to play it.

5. The system records and displays all cameras at the same time in quad mode. If you would like to view one camera only, repeatedly tap the Change Display icon. See “Event List Controls” section below for descriptions of the icons/operations for this screen.

Event List

To Delete a Recording

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap Event List icon to access the Event List screen.

2. At any of the Event List screens, tap and hold on a folder or file for a few seconds and the Delete (trash can) or Cancel icons will appear.

3. Tap the Delete icon to delete the folder/file, or tap the Cancel icon if you do not want to delete.

When done setting, tap the icon to return to the previous screen.

Event List Controls

1. Open/Close Controls
2. Rewind
3. Pause (or Resume Play)
4. Forward
5. Change Display
6. Stop playback and return to previous screen
7. Date and Time of Recording
8. Camera Status
9. Play Status
Setting the Date/Time

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap System icon to access the System screen.

2. Tap the Time Setting icon.

3. Tap the + icon to increase or the – button to decrease the Year, Month, Day, Hours and Minutes.

   Remember to set the correct AM/PM when setting the hour.

   When done setting, tap the icon to return to the previous screen.

Setting NTSC/PAL

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap System icon to access the System screen.

2. Tap the NTSC/PAL icon, if connected to an external TV.

3. Tap the desired NTSC or PAL icon corresponding to the connected TV. Most USA sets use NTSC and European sets use PAL.

   When done setting, tap the icon to return to the previous screen.
Power Saving

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **System** icon to access the System screen.

2. Tap the **Power Saving** icon.

3. Tap the desired time for which the display will remain on when idle, 5 minutes, 10 minutes or Always On.

   When done setting, tap the **icon to return to the previous screen.**

Idle Display

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **System** icon to access the System screen.

2. Tap the **Idle Display** icon.

3. This setting allows you to decide if the cameras will display in quad mode or if they will cycle individually in 5, 10, or 15 second intervals. Tap to select **Quad**, **Always**, or **5**, **10** or **15 Second Intervals**.

   When done setting, tap the **icon to return to the previous screen.**
**Language**

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **System** icon to access the System screen.

2. Tap the **Language** icon.

3. Tap the desired language, the menus will now be in the selected language.

When done setting, tap the icon to return to the previous screen.

**Alarm Buzzer**

1. Follow steps 1 through 3 on page 23 to access the System Menu.

   Tap the **Alarm Buzzer** icon to activate. This will set the alarm buzzer to go off when a camera detects motion and begins recording.

   When done setting, tap the icon to return to the previous screen.
**SYSTEM MENU**

**Zoom**

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **Zoom** icon to access the Zoom screen.

2. The Zoom display will appear. Tap the red arrows to pan from the left and right or up and down.

3. Tap the screen to return to the previous screen.

The system will exit Zoom mode after it is idle for two minutes.

**Scan Activated Cameras**

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **Scan** to access the Scan screen.

   The display will then scan through all the available cameras. The System menu is available during the Camera scan.

   To turn off, tap the **Open/Close** icon and tap the **Change Display** icon.

**Memory Card Overwrite**

1. Follow steps 1 through 3 on page 23 to access the System Menu. Tap **Memory Card Overwrite** icon to turn the Memory Card Overwrite On or Off. The number on the icon indicates the remaining memory available on the micro SD card.

   Turning on Memory Card Overwrite allows you to overwrite the oldest files when your memory card is full. If you turn this function off, an error message displays when you have no more room to save files.
Overview

This camera system allows you to view live video from an iPhone®, iPad®, iPod Touch® or Android™ smartphone or tablet. Free apps are available through the Apple App Store or the Android Market/Google Play.

Up to three remote users can access live video at the same time as long as they have the User ID (DID) Code and Security Code.

IMPORTANT:
The number of remote viewers is determined by the amount of “available upload bandwidth” on your home network.

Requirements for Remote View

- PC (Celeron 1.5GHz processor or above, Memory: 4GB or above, Internet Upload Speed: 512kbps or above, OS: Windows 7, Windows 8 32-bit)
- iPhone®, iPad®, iPod Touch® (iOS 6.0 and above)
- Android™ smartphone or tablet (version 2.3X or above)

IMPORTANT:
Note: Not suitable for Windows Mobile Devices or Blackberry Smartphones.

Recommended Minimum Internet Upload Speed
512Kbps upload speed (or bandwidth) to achieve up to an average of 2FPS viewing speed. Average viewing speed will depend on other restrictions by your ISP (internet service provider).

IMPORTANT NOTES:
- When you are connected to a computer, live video will NOT display on the monitor and the monitor’s touch screen operation will not function.
- The monitor’s touch screen operation will return to normal after disconnecting from the computer.

SCREEN SHOT NOTE:
Many of the App illustrations shown in this manual are when using Android devices. The Apple device’s App will look very similar and the operation will be the same, except where noted.

Remote Setup

1. Turn on the 7” monitor and connect to a PC computer as shown on page 13.

   Download ALC Remote Service from www.ALCWireless.com/support/

2. Launch the newly installed software, ALC_Remote_Service.

   Select a Language from the Language pull-down menu.
Remote Setup

3 Select **USB 2.0 Camera** from the pull-down menu.

4 Enter the DID number (located on the back of the 7” monitor) and a personal security code.

   Click **Connect to Internet**.

   **Note:** If a firewall is enabled in your computer, a pop up window will appear. Click “Allow Access” to continue.

5 The status should now say, “Running” at the bottom of the window. You can now install the App as shown in the next step.

6 Download the free ALC Observer App:

   **APPLE DEVICE:**
   From your iPhone or iPad, go to the App Store and search for ALC Observer. After installing the App, see page 48 to set up.

   **ANDROID DEVICE:**
   From your Android smartphone or tablet device, go to Google Play and search for ALC Observer. After installing the App, see the following page to set up.
Before launching the App, turn on the Wi-Fi setting on your Smartphone or tablet and set it to your home network. Connect to a PC computer as shown on page 13. Launch the ALC Observer App and the Setup Wizard screen will appear. Tap “+” to start the Wizard.

The Smart Device will now search for the camera. The camera may be automatically connected, but if not, go to step 3 to complete the process.

Tap Continue.

Name the System. Enter the DID code located on the back of the 7” monitor. Enter the same password you entered for set up of the ALC_Remote_Service.
REMOTE ACCESS

ALC Observer App Icons

MAIN SCREEN
The following icons appear when on the Main screen. Tap on the arrows to access the live video screen. If you have already selected a view and go back to the previous screen (arrows screen), a still picture of the live video appears instead. To access the video again simply tap on the still picture and it will show the live video screen again.
See the next page for icon descriptions.

LIVE VIEW SCREEN
The following icons appear when on the Live View Screen. From the pull down menu select the camera (1 - 4) you wish to view. Only one camera at a time can be viewed.
See page 51 for icon descriptions.
If desired, rotate the Android or Apple device 90° for full screen landscape viewing. The icons will not appear when viewing in landscape mode.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Icon Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add System</td>
<td>Tap this icon to enter the Apple or Android Setup Wizard (page 48).</td>
</tr>
<tr>
<td>Camera Setting</td>
<td>Tap this icon to access the App’s options. See below:</td>
</tr>
<tr>
<td></td>
<td>Tap this icon to set up camera configuration or make changes to your existing settings.</td>
</tr>
<tr>
<td></td>
<td>Tap this icon to remove the camera’s connection.</td>
</tr>
<tr>
<td>Refresh</td>
<td>Tap this icon to refresh the camera’s connection.</td>
</tr>
<tr>
<td>Information</td>
<td>Tap this icon to enter the Setup PIN Lock, Set the Notify Setting or check the APP/API version information. See page 57.</td>
</tr>
</tbody>
</table>
### ALC Observer App Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Icon Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capture</strong></td>
<td>Tap to capture screen images. The snapshots will be saved into the camera roll of your mobile device. See page 53 for more details.</td>
</tr>
<tr>
<td><strong>Return</strong></td>
<td>Tap to return to the main screen.</td>
</tr>
</tbody>
</table>

### Viewing the Camera(s)

1. From the main screen, tap to remote view your camera system.

2. **ANDROID:** Select a camera by tapping the Camera pull down menu (Camera 1 - 4).
REMOTE ACCESS

Viewing the Camera(s)

2 **APPLE**: Select a camera by tapping the Camera pull down menu (Camera 1 - 4).

3 **PINCH AND ZOOM**: To zoom in or out use the simple pinch and zoom gesture with this app.

Taking Snapshots

1 From the main screen, tap to remote view your camera system.

2 Select a camera by tapping the Camera pull down menu, then select the desired camera.
**Taking Snapshots**

3 Tap the **Capture** icon to take a snapshot of the current image.

**To View Snapshots**

**For Apple:**
You snapshots will be named with the time stamp and saved into the Camera Roll > snapshot folder on your mobile device.

**For Android:**
You snapshots will be named with the time stamp and saved into the Photo gallery > snapshot folder on your mobile device.

---

**PINCH AND ZOOM:** To zoom in or out use the simple pinch and zoom gesture with this app.

---

**Information Screen Options**

1 From the main screen, tap the **Information** icon; a pop up will appear.

2 To view information (Version, etc.), tap **About**.
REMOTE ACCESS

Information Screen Options

3 **ANDROID DEVICES:** To set up the App so you will get notified when motion has been detected, tap **Notify.**

Tap the Notify Enable box, then tap **OK.** When motion is detected, you will receive a message.

**APPLE DEVICES:**

1 Launch Settings/System Preferences from your Home screen on the Apple device.
2 Tap Notification Center; a list of Apps will appear.
3 Scroll down to find “ALC Observer” App and tap it.
4 The setting screen displays. Turn the notification ON or OFF as desired. **Note:** It takes time for the changes to take effect in iOS, normally within two hours.

4 To Setup the PIN Lock, tap **Setup PIN Lock.**

**TIP:** Setting a PIN Lock code will prevent others from activating the app and viewing your camera images.

5 Tap the **Enable Lock When Starting** switch to enable (will be blue), or disable (will be white) the **PIN Lock.**
**Information Screen Options**

6. Using the keyboard, enter a four-digit code. Then, confirm this exact code.

7. Now that the pin is set and enabled, whenever the App is opened you must enter this code.

**DID Setting Screen**

1. From the main screen, tap the **Settings** icon.

2. Tap the **Settings** icon; the System Information Screen will appear.
Monitor

As you use your touch-screen monitor, fingerprints, etc. will appear on the screen. Keep the screen clean by wiping it with a microfiber cloth. It is not recommended to use any chemicals or harsh detergents on the touch screen.

Cameras

When dust and grime builds up on the camera lens and glass, it will affect the night vision capability. The infrared light reflects off of the dust and grime, limiting the camera’s “vision.” Use a microfiber cloth to regularly clean the cameras or when night vision video is cloudy or unclear.

Upgrading the Firmware

The latest firmware and how to install the firmware will be available under the Observer category on our support page at www.ALCWireless.com/support/.

TROUBLESHOOTING

If you have any trouble with your system, try these simple steps which should handle most common issues.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Image.</td>
<td>Make sure the camera’s power is on. Make sure the monitor has enough charge; connect it to the included adapter. Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception. If the monitor is connected to a PC, no image will appear.</td>
</tr>
<tr>
<td>Poor picture quality.</td>
<td>Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception. Clean the camera lens using a microfiber cloth.</td>
</tr>
<tr>
<td>The motion sensor does not respond to movement.</td>
<td>Ensure the camera is set to motion in the schedule section, see page 27. Increase or decrease the sensitivity of the motion sensor (for details see page 28). Part of the screen is set to mask, see page 30.</td>
</tr>
<tr>
<td>Standard or Scheduled recording is not working properly.</td>
<td>Ensure the correct Date and Time have been set, for details see page 36. Ensure the Record Schedule has been setup correctly, see page 27 for more details. Ensure the micro SD card is inserted into the monitor and formatted.</td>
</tr>
<tr>
<td>Unable to pair the camera to the monitor.</td>
<td>There might be no movement detected, i.e. no moving object to trigger the motion sensor. Make sure the camera’s power is on. Press and hold the pairing button quickly. Do not press and release it; see page 24. Turn off the monitor and restart. If power button does not respond, use a pin to press the reset button located on the side of the monitor.</td>
</tr>
<tr>
<td>A white image appears at night.</td>
<td>The camera’s infrared LEDs shine invisible light that reflects off surfaces such as glass will cause white light. Place the camera on the other side of the window to improve the night vision or place it in a well-lit area (it is recommended to install a security lamp to improve lighting).</td>
</tr>
</tbody>
</table>
### Troubleshooting

<table>
<thead>
<tr>
<th><strong>Problem</strong></th>
<th><strong>Possible Solution</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>System has locked up.</td>
<td>Turn off the monitor and restart. If power button does not respond, use a pin to press the reset button located on the side of the monitor.</td>
</tr>
<tr>
<td>The camera’s signal status icon shows no bars.</td>
<td>Make sure the camera is plugged in and the red LED is on; see page 15. Make sure the camera is paired to the correct channel; see page 24. Re-pair the camera to the monitor. Move the camera closer to the monitor; it might be out of range or flip the antenna of the monitor and/or camera to obtain best possible reception.</td>
</tr>
<tr>
<td>Cannot remotely access camera(s).</td>
<td>Make sure the software is installed and running on the PC. Also that both PC and Android/Apple device are on the same network.</td>
</tr>
</tbody>
</table>

### Product Specifications

**Camera**

- **Communication Range**: 164 yd (150 m) in open space
- **Camera Resolution**: 640 x 480
- **Operating Temperature**: 14°F – 122°F (-10°C – 50°C)
- **Operating Voltage**: DC 5V, 1A
- **Current Consumption**: 550 mA (MAX)
- **Night Vision**: 40 ft (12.2 m)
- **Dimensions**: 4.8L x 2.6H x 2.6W in (123L x 65H x 65W mm)
- **Recording Time on SD Card**: 1GB = Approx. 10 hours

**Monitor**

- **Maximum Channels**: 4
- **Communication Range**: 164 yd (150 m) in open space
- **LCD Resolution**: 800 x 480
- **Operating Temperature**: 14°F – 122°F (-10°C – 50°C)
- **Operating Voltage**: DC 5V, 1A
- **Current Consumption**: 860 mA (MAX)
- **Dimensions**: 7.9L x 4.8H x 1.0W in (200L x 122H x 25W mm)
- **Battery**: 3.7V 1800 mAH (Lithium Ion)
PRODUCT SPECIFICATIONS

Battery

The LCD monitor contains a rechargeable battery pack. If the power supply adapter is kept connected to the monitor then the battery will begin recharging until fully charged. The monitor can still be used if left connected to the power supply adapter even if the battery is fully charged.

Charge Time ............................................................................. 8 Hours to charge from zero charge
Specifications ................................................................. 3.7V, 1800mAH Li-ON

WARRANTY

One-Year Limited Warranty

Important: Evidence of original purchase is required for warranty service.

Atoms Labs LLC (“ALC”) ELEMENTS OF WARRANTY: ALC warrants, if properly installed and used thereafter in strict accordance with the use and care guidelines provided in the instructions manual, the Product shall be free from manufacturing defects in material and workmanship for one (1) year from the documented date of purchase. The purchase date must be documented with either an original sales receipt from the first retailer selling the Product or by credit card receipts or statements. The warranty is non-transferrable.

LIMITED WARRANTY: The warranty terminates one year after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by ALC, (C) improperly installed, (D) serviced or repaired by someone other than an authorized ALC service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by ALC, or (F) installed or programmed by anyone other than as detailed by the owner’s manual for this product.

THIS WARRANTY DOES NOT COVER DATA LOSS, OR COSTS RELATED TO DATA RECOVERY. ALC MAKES NO WARRANTY THAT ANY SOFTWARE PROVIDED WITH THE PRODUCT WILL FUNCTION WITHOUT INTERRUPTION OR OTHERWISE BE FREE OF ANOMALIES, ERRORS OR VIRUSES. THIS WARRANTY DOES NOT COVER ANY COSTS RELATING TO REMOVAL, REPLACEMENT, OR INSTALLATION OF ANY PRODUCT, REGARDLESS OF WHETHER THE PRODUCT IS FOUND BY ALC TO BE DEFECTIVE, OR SOFTWARE INSTALLED ON THE USER’S COMPUTER.

ALC 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. ALC IS NOT RESPONSIBLE FOR ANY 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 ALC AND DO NOT AFFECT THIS PROVISION OF THIS WARRANTY. THE LIMITED WARRANTY IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF LOST REVENUE, PROFIT, OR DATA, OR FOR SPECIAL, INDIRECT, CONSEQUENTIAL, INCIDENTAL, OR PUNITIVE DAMAGES HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you. Your damages will be limited to the total purchase price you paid for the Product.

Use of audio or video equipment for recording the image of a person without their knowledge and consent is prohibited in certain states or jurisdictions. The end-user assumes all liability for compliance with applicable state, local and federal laws. ALC Labs has no responsibility or liability for how the end-user uses a product. Wireless cameras require a wired connection to AC power outlet. Network conditions and environmental factors can adversely affect wireless signal range. Actual night vision range and image clarity depends on installation location, viewing area and light reflection / absorption.

This Product may only be sold in the United States of America and Canada. There is no warranty whatsoever on the Product outside of the United States of America and Canada.

STATEMENT OF REMEDY: If the Product is under warranty, ALC will either, at its option, repair or replace the defective Product and return it to you without charge for parts, service, or any other cost. ALC, at its option, may replace the Product with a new or refurbished Product.
WARRANTY

LEGAL REMEDIES: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state. All parties irrevocably submit themselves to the exclusive venue and personal jurisdiction of the state and federal courts in Denton County, Texas with regard to any dispute relating to this Warranty or its enforcement. The parties also hereby waive any challenge to venue and personal jurisdiction they may have to a lawsuit filed in a state or federal court in Denton County, Texas, regarding a dispute between the parties relating to this Warranty or its enforcement. You agree that Atoms Labs is entitled to its reasonable and necessary attorney’s fees if it is a prevailing party in litigation against you relating to this Warranty. If any provision of this Warranty is found to be invalid, illegal, or unenforceable, the validity, legality, and enforceability of any of the remaining provisions will not in any way be affected or impaired and a valid, legal, and enforceable provision of similar intent and economic impact will be substituted therefore.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner’s manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Atoms labs LLC
2670 Frywheel Drive  Suite D
Flower Mound, TX 75028
844-767-8544

9 a.m. to 6 p.m., Central Time, Monday through Friday

ALC reserves the right to make changes to its products without incurring any obligation to modify any product that has already been manufactured. 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 any software provided.

ALC appreciates your support and feedback! If you come across software bugs or ways we could improve our products, we would love to hear about them! Please email us at support@ALCWireless.com and you will hear back from us.

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You are required by law (Battery Ordinance) to return all spent batteries and accumulators. Disposing of spent batteries/accumulators with common household waste is prohibited. Batteries/accumulators that contain hazardous substances are marked with the symbols on the side. These symbols indicate that it is prohibited to dispose of these batteries/accumulators in the household waste. The abbreviations for the respective heavy metals are: Cd = cadmium, Hg = mercury, Pb = lead. You can return spent batteries and accumulators that can no longer be charged to the designated collection points in your community, outlets or wherever batteries or accumulators are sold. Following these instructions will allow you to fulfill the legal requirements and contribute to the protection of our environment!

WARRANTY

ELEMENTS OF WARRANTY:

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Wireless Made Simple.