Before operating the unit, please read this manual thoroughly.

OPERATING INSTRUCTIONS

Model SG 6040
### 7. Specifications

#### Wireless Camera

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image sensor</td>
<td>1/3&quot; B/W CCD imager</td>
</tr>
<tr>
<td>Lens</td>
<td>F2.0/ f 3.7mm, 92° wide-angle lens</td>
</tr>
<tr>
<td>Total Pixels</td>
<td>537(H) x 505(V), 270,000 pixels</td>
</tr>
<tr>
<td>Scanning system</td>
<td>2:1 interlace</td>
</tr>
<tr>
<td>Scanning frequency</td>
<td>15.734 KHz(H) 59.94Hz(V)</td>
</tr>
<tr>
<td>Sync. system</td>
<td>Internal Synchronization</td>
</tr>
<tr>
<td>Resolution</td>
<td>420 TV lines horizontal</td>
</tr>
<tr>
<td>Min. illuminations</td>
<td>0.5 Lux at F2.0</td>
</tr>
<tr>
<td>Video Output</td>
<td>1.0Vp-p/75 Ohm</td>
</tr>
<tr>
<td>Gamma characteristics</td>
<td>r=0.45</td>
</tr>
<tr>
<td>Auto Iris</td>
<td>Electrical Auto Iris</td>
</tr>
<tr>
<td>Shutter sensitivity</td>
<td>1/60-1/100,000</td>
</tr>
<tr>
<td>Microphone</td>
<td>Electret Condenser</td>
</tr>
<tr>
<td>Transmitting frequency</td>
<td>2.4 GHz-2.4835 GHz(2Ch)</td>
</tr>
<tr>
<td>Modulation</td>
<td>FM</td>
</tr>
<tr>
<td>RF out level</td>
<td>90dBu/V, 3m</td>
</tr>
<tr>
<td>Video Output level</td>
<td>1.0Vp-p/75 Ohm</td>
</tr>
<tr>
<td>Antenna</td>
<td>Directional high gain antenna</td>
</tr>
<tr>
<td>Oper. temperature</td>
<td>-14° to + 122°F</td>
</tr>
<tr>
<td>Power source</td>
<td>DC12V 500mA AC Adapter</td>
</tr>
<tr>
<td>Dimensions</td>
<td>2.72&quot;(W) x 1.89&quot;(H) x 5.75&quot;(D)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx 9 OZ</td>
</tr>
</tbody>
</table>

#### Wireless Receiver Monitor

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receiving frequency</td>
<td>2.4GHz - 2.4835GHz (2CH &amp; AUTO)</td>
</tr>
<tr>
<td>Output level</td>
<td>1.0Vp-p/75ohm (Video), 1.35Vp-p (Audio)</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>-25dB to -80dBm</td>
</tr>
<tr>
<td>Antenna</td>
<td>Directional high gain antenna</td>
</tr>
<tr>
<td>Resolution</td>
<td>More than 280 lines</td>
</tr>
<tr>
<td>Sound output</td>
<td>0.5 Watt.</td>
</tr>
<tr>
<td>Power Source</td>
<td>DC12-14V 1.2A AC Adapter</td>
</tr>
<tr>
<td>Dimension</td>
<td>7.09&quot;(W)x8.2&quot;(H)x8.07&quot;(D)mm (W/O Battery Case)</td>
</tr>
<tr>
<td></td>
<td>7.09&quot;(W)x9.45&quot;(H)x8.07&quot;(D)mm</td>
</tr>
<tr>
<td>Oper. Temperature</td>
<td>-14 to + 122°F</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx 45 OZ (W/O Battery Case)</td>
</tr>
<tr>
<td></td>
<td>Approx 50 OZ</td>
</tr>
</tbody>
</table>
**5. TROUBLE SHOOTING**

If the system does not function properly, check the following points before contact the service center.

<table>
<thead>
<tr>
<th>Problems</th>
<th>Camera</th>
<th>Monitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power (no picture/sound)</td>
<td>- AC adapter not plugged in</td>
<td>- AC adapter not plugged in</td>
</tr>
<tr>
<td></td>
<td>- Power switch not turned on</td>
<td>- Power switch not turned on</td>
</tr>
<tr>
<td></td>
<td>- Monitor not turned on</td>
<td>- Monitor not turned on</td>
</tr>
<tr>
<td>Poor reception</td>
<td>- AC adapter not plugged in</td>
<td>- Adjust antenna direction</td>
</tr>
<tr>
<td></td>
<td>- Power switch not turned on</td>
<td>- Improper channel 1-2 selection</td>
</tr>
<tr>
<td>Picture flickering</td>
<td>- Strong spot light in the field of view</td>
<td>- Adjust brightness control on Monitor</td>
</tr>
<tr>
<td>Picture too bright, or too dark</td>
<td>- Lighting source in the field of view</td>
<td></td>
</tr>
<tr>
<td>Picture rolls and jumps</td>
<td>- Adjust antenna direction</td>
<td>- Adjust antenna direction</td>
</tr>
<tr>
<td>or scrambled picture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Basic system includes**

1. Wireless Camera
2. Wireless A/V Receiver Monitor
3. 2 AC Adapters
   - 12V/0.5A Adapter (Camera)
   - 12-14V/1.2A Adapter (Monitor)
4. RCA A/V Cables or Scart A/V Cables (Option)
5. Owner's Manual/Warranty Card
6. Camera Mount
7. Warning Decal

---

**CAUTION**

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

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.

**Explanation of two Symbols**

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

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

**THE GRAPHIC SYMBOLS WITH SUPPLEMENTAL MARKING ARE ON THE BOTTOM OF THE SYSTEM.**

**WARNING:** To prevent fire or shock hazard, do not expose this appliance to rain, water, or wet locations. Do not insert any metallic object through the ventilation grills.

**IMPORTANT SAFETY INSTRUCTIONS**

This wireless A/V equipment is provided with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
SAFETY INSTRUCTIONS

IMPORTANT SAFEGUARDS
All the safety and operating instructions should be read before the appliance is operated and retained for future reference.

1. HEED WARNINGS - All warnings on the appliance and in the operating instructions should be adhered to.

2. FOLLOW INSTRUCTIONS - All operating instructions should be followed.

3. WATER AND MOISTURE - Do not use this video product near water - for example, a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement.

4. POWER SOURCES - This product should be operated only from the type of power source indicated on the marking label.

5. POLARIZATION - This video monitor equipment is provided with a polarized alternating current line plug (a plug having one blade wider than the other ). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

6. OVERLOADING - Do not overload outlets and extension cords, which can result in a risk of fire or electric shock.

7. SERVICING - Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing or repairs to qualified service personnel.

4. MULTIPLE CHANNEL OPERATION

ONE CAMERA BY MULTIPLE RECEIVER OPERATION
You can receive A/V signal from the Wireless Camera on several Receiver monitors in remote location at the same time using one Wireless Camera with multiple Wireless Receiver as many as you want.

Transmitter

1. Connect all Receiver Monitors with or without VCR using RCA cables. (see instructions on page 12)

2. Turn on the Camera and all Receiver Monitors. Search the channel 1-2 by using channel Selector Switch on the Camera and Receivers Monitor and select best one for optimum reception in your area.

3. Adjust the antenna direction as necessary.

NOTE: System includes only one Receiving Monitor and one Sending unit. Additional units are optional.

NOTE: Be sure to set the Power Switches on the Camera and the Receiver to the OFF position before proceeding with the following steps.
4. MULTIPLE CHANNEL OPERATION

ONE RECEIVER MONITOR BY TWO CAMERAS OPERATION (Cont’d)

4. Turn on the Receiver Monitor and select the channel 1-2 one by one manually Channel Selector switch on the Receiver Monitor.

5. Adjust the antenna direction as necessary.

8. DAMAGE REQUIRING SERVICE - Unplug this product from the wall outlet and refer servicing or repairs to qualified service personnel under the following conditions:
   a. When the power supply cord or plug is damaged.
   b. If liquid has been spilled or objects have fallen into the product.
   c. If the product has been exposed to rain or water.
   d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions.
   e. If the product has been dropped or the cabinet has been damaged.
   f. When the product exhibits a distinct change in performance.

9. REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts that are specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

10. SAFETY CHECK - Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.

11. An appliance and cart combination should be moved with care.

   Do not place this equipment on an unstable cart, stand, or table. The equipment may fall, causing serious injury to a child or adult, and serious damage to the equipment. Wall or shelf mounting should follow the manufacturer’s instructions and should be done with a mounting kit approved by the manufacturer.
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>TABLE OF CONTENTS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CONTROLS AND FUNCTIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIRELESS CCD CAMERA</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>WIRELESS MONITOR</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>2. INSTALLATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WIRELESS CAMERA</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>WIRELESS MONITOR</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>ADJUSTING THE A/V ANTENNA</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>3. SYSTEM OPERATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPERATION WITH MONITOR</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>OPERATION WITH MONITOR &amp; VCR</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>4. MULTIPLE CHANNEL OPERATION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONE RECEIVER MONITOR BY TWO CAMERAS OPERATION</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>ONE CAMERA BY TWO RECEIVERS OPERATION</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>5. TROUBLE SHOOTING</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>6. BASIC SYSTEM INCLUDES</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td>7. SPECIFICATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

## 4. MULTIPLE CHANNEL OPERATION

ONE RECEIVER MONITOR BY TWO CAMERAS OPERATION

This wireless Camera & Monitor System consists of a Wireless Camera and a 5" B/W Monitor. You can connect up to two Cameras to the monitor.

For proper usage and application, please read the instruction manual.

1. Place all cameras at your desired location.

2. Connect the Receiver Monitor with or without VCR using RCA cables. (see instructions on page 12)

3. Turn on all Cameras. The Cameras must use different channel. Select the channel 1-2 by using Channel Selector Switch on each Camera unit.

**NOTE**
Be sure to set the Power Switches on the Camera and the Receiver Monitor to the OFF position before proceed following steps.
1. CONTROLS AND FUNCTIONS

WIRELESS CCD CAMERA

1. LENS
   1/3" B/W CCD Image sensor with built-in 92° fixed wide-angle lens.

2. MICROPHONE
   Built-in condenser microphone. (one-way audio)

3. LED-POWER INDICATOR
   Indicates that the camera is turned on.

4. 2.4 GHz A/V ANTENNA
   High gain directional patch antenna sends A/V signal to the receiver.

5. STAND MOUNTING SOCKET
   Reinforcement lock for camera stand.

6. CHANNEL SELECTOR SWITCH
   Switch for the channel 1-2 selection.

7. POWER SWITCH ON/OFF
   Controls power. Be sure to set the switch to off position before plugging the AC adapter into the unit and AC outlet.

8. AUDIO/VIDEO OUT JACKS
   EAR Audio/Video-Out jacks for wire mode operation.

9. DC IN JACK
   Plug the 12V(500mA) AC Adapter in here.

3. SYSTEM OPERATION

OPERATION WITH MONITOR & VCR

Receiver Monitor

Camera and Receiver Monitor units must be set to the OFF position before proceeding with the following steps.

Camera
(1) Connect supplied power adapter to Camera power input.
(2) Slide the channel selector switch to CH 1-2 of your choice.

Receiver Monitor
(1) Connect supplied power adapter or plug from Battery Case to Receiver Monitor power input.
(2) Search the channel 1-2 by using Channel Selector Switch on the Receiver Monitor and Camera and select best one for optimum reception in your area.
(3) The fine tuning knob should be kept in the center position for best reception.
(4) Try to position both the Camera and Monitor as high off the ground as possible for better reception.
(5) Connect A/V output signal to your VCR recorder. If you want to record the camera signal.
(6) Volume Control--Adjust the knob for desired volume level.
(7) Bright and Contrast Control--If the picture is too bright or too dark, adjust the bright and contrast controls to suit.
(8) Vertical Hold Control--If picture rolls up and down (as illustrated) adjust the vertical hold control.
(9) Adjust the antenna direction as necessary.

NOTE
Be sure to set the Power Switch on both the Receiver Monitor and Camera to the OFF position before proceeding with the following steps.

NOTE
Both Camera and Receiver Monitor units must be set to same channel.
1. CONTROLS AND FUNCTIONS

WIRELESS MONITOR

FRONT VIEW

1. 2.4GHz Antenna
   High gain directional patch antenna receives A/V signal from the camera.

2. CRT
   5” Diagonal

3. Brightness Control
4. Contrast Control
5. OFF/Volume Control
6. Channel Selector Switch
   Switch for channel 1-2-AUTO selection.
7. DC Input Jack
   Connect the supplied 12-14V 1.2A AC adapter.

REAR VIEW

8. Video Output Jack
   EAR jack for Video output connection.

9. Audio Output Jack
   EAR jack for Audio output connection.

10. V-Hold Control
11. Speaker
12. Battery Case
13. DC plug

Location of Receiver Monitor controls

3. SYSTEM OPERATION

OPERATION WITH MONITOR

Be sure to set the Power Switch on the Receiver Monitor and Camera to the OFF position before proceed following steps.

Camera
(1) Connect power adapter (12V/500mA) to Camera power input.
(2) Slide the channel selector switch to CH 1-2 of your choice.

Receiver Monitor
(1) Connect supplied power adapter or plug from Battery Case to Receiver Monitor power input.
(2) Search the channel 1-2 by using Channel Selector Switch on the Receiver Monitor and Camera and select best one for optimum reception in your area.
(3) The fine tuning knob should be kept in the center position for best reception.
(4) Try to position both the Camera and Monitor as high off the ground as possible for better reception.
(5) Volume Control—Adjust the knob for desired volume level.
(6) Bright and Contrast Control—If the picture is too bright or too dark, adjust the bright and contrast controls to suit.
(7) Vertical Hold Control—If picture rolls up and down (as illustrated) adjust the vertical hold control.
(8) Adjust the antenna direction as necessary.

NOTE
Both Camera and Receiver Monitor units must be set to same channel.
2. INSTALLATION

ADJUSTING THE A/V ANTENNA

**NOTE:** The front (patterned side) of the A/V antennas on both camera and receiver monitor must face each other for optimum performance as both are directional high gain antennas.

Maximum antenna rotation 270° in both clockwise and anti clockwise

**Caution:** Do not rotate the antenna 360° or it will cause antenna mechanism damaged

---

1. CONTROLS AND FUNCTIONS

WIRELESS RECEIVER MONITOR (without Battery Case) (Optional)

**FRONT VIEW**

- **2.4GHz Antenna**
  - High gain directional patch antenna receives A/V signal from the camera.
- **CRT**
  - 5” Diagonal
- **Brightness Control**
- **Contrast Control**
- **OFF/Volume Control**
- **Channel Selector Switch**
  - Switch for channel 1-2-AUTO selection.

**REAR VIEW**

- **DC Input Jack**
  - Connect the supplied 12-14V 1.2A AC adapter.
- **Video Output Jack**
  - EAR jack for Video output connection.
- **Audio Output Jack**
  - EAR jack for Audio output connection.
- **V-Hold Control**
- **Speaker**

**Location of Receiver Monitor controls**

---

**IMPORTANT NOTE FOR CHANNEL SELECTION**

Search the channel 1-2 and select best one for optimum reception in your area. Both Camera and Receiver Monitor must be set to same channel.
1. Connect the supplied 1.2A AC adapter to the DC INPUT JACK at the rear of the receiver monitor and plug it into the 230V (or 120V) AC outlet. Or 1a. Connect the DC Plug from Battery Case to the DC INPUT JACK at the rear of the Receiver Monitor.

2. INSTALLATION

2. INSTALLATION

WIRELESS CAMERA

1. Attach the stand base to the wall or ceiling where you want to install the camera. Locate a wall stud or ceiling joist and secure bracket using the three supplied screws.

2. Attach the camera to the stand and firmly tighten the swivel.

3. Attach the camera with the stand to the stand base and firmly tighten the joint knob on the stand base.

4. Connect the supplied 12V 500mA AC adapter to the DC IN jack at the rear of the camera and plug it into 230V (or 120V) AC outlet.

Battery Case & Compartment

Remove the battery case by screwing down bolt at the rear side and sliding out case. The battery feature requires 10 Pcs ‘C’ sized batteries.

Warning: To prevent injury. Do not reverse any Battery & Do not mix Battery type.