Detachable DIY Door Viewer Camera for Home / Office Safety

Installation Manual

(* This is a patented product, do not copy)

IA Technologies Inc.
www.iat101.com
www.peephole-store.com
Note 1: Starting from year 2017, we are having additional options for door camera direction, and door camera color as described in the Appendix.

Note 2: The default door camera direction would be (R) for right-hand door, and camera color would be white color (W) if customer does not specify during the ordering.

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Mini Camera Box has the built-in high-quality SONY CCD camera, LED light as camera ON/OFF indicator, and mini telephone 6P4C connector
1. Preface:

This Detachable Door Viewer Camera Surveillance system combines the advantages of a conventional wide-angle door peephole viewer and a surveillance camera to protect your properties and family members.

After install this product you are able to know what is happening outside without walking to your front door. It is a perfect safety solution for busy home-business (SOHO) people, Elderly parents, or Home-alone kid, etc.

This compact product has simple installation steps, and you only need a 1/2” (12mm) door hole to install this product on door.

This product has many advantages comparing to any other door camera products in the market, such as a battery-operated LCD monitor door viewer. Please refer to section 6. Advantage of a Detachable Door Camera for information.
2. Introduction

This product is a small and low-cost EZ DIY surveillance device to be installed on a 3 ~ 5.3 cm thick door. It is a versatile device having many advantages in its applications. Many customers found the advantages of this product including the followings:

1. You can replace the device with your current door viewer (with 1/2" or 12mm hole) without any additional drilling work on the door.

2. This product has a better viewing angle comparing to a surveillance camera hanging on the ceiling that can only see people from the top direction. This device is also easier to install comparing to the installation of a ceiling camera.

3. You can see who is walking / standing in front of your door without going to door to check it out. It is good for elderly, or handicap people and any person who is normally busy in doing work at home / office.

4. The sensor unit is hiding behind the door viewer so thief / robber will not be able to notice he is already under your surveillance watching. He will not be able to using any special tools to see your place through the door viewer either.

5. The device is installed inside the house to avoid direct damage from the outside so it will have a long operational life-time. It is easy installation and easy to disassemble without damage anything.

6. You may just buy a basic kit now and expand the surveillance setup into various connections in the future, for example connecting it to TV, DVR, TFT LCD monitor, PC, Notebook and even with a wireless setup in your house, as shown in the following wiring diagram.
3. Part List

A basic detachable door camera will include following items;

a.) Door Viewer (peephole): Please check APPENDIX for peephole selections
   - 3 different viewing angles available for selection: 160 degree, 190 degree or 200 degree viewing angles.
   - 3 different colors of peephole available for selection: Silver, Brass (Gold), Black color. Please check APPENDIX for peephole selections

b.) Camera box:
   - with built-in high-quality SONY CCD Sensor, We will provide the NTSC or PAL to match your country TV Standard
   - 2 different door arrangements available for selection: right door or left door. Please check APPENDIX for different door directions

c.) Connector box
d.) Metal Ring
e.) AC to DC adapter:
   - 90 ~ 240 VAC input, 12 VDC output, we will provide the correct plug to match your country plug.
f.) Telephone Line: 5 meters long 6P4C thin-wire telephone line
g.) Video Cable: 10 meters long RCA cable with ultra-low resistance

<table>
<thead>
<tr>
<th>Door Viewer</th>
<th>Camera Box</th>
<th>Connector Box</th>
<th>Metal Ring</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Door Viewer" /></td>
<td><img src="image2" alt="Camera Box" /></td>
<td><img src="image3" alt="Connector Box" /></td>
<td><img src="image4" alt="Metal Ring" /></td>
</tr>
<tr>
<td>AC to DC adapter</td>
<td>6P4C Telephone line</td>
<td>Video Cable (RCA)</td>
<td></td>
</tr>
</tbody>
</table>
4. Easy DIY Installation Steps:

**Step 1:** Drill a 12mm (1/2") diameter hole (or 14mm for 200 degree viewer) at the desired location on your door.

**Step 2:** Take out peephole front cap out of the tube. Insert the front cap into drilled hole (from outside of the door), place the metal ring (inside of the door) and then rotate tube to tide the peephole viewer. (Please double check to have a correct direction of the metal ring on door)

**Step 3:** Connect the telephone plug, one end to Camera Box and another end to Connector Box. Plug the AC adapter to wall plug and the Connector box. Once the AC adapter plug to the wall plug, the LED light should power on.

**Step 4:** Plug the Camera Box to the peephole viewer on door. (if the LED light does not power on, that means the SONY camera sensor is not on, please double check your wiring connection)

**Step 5:** Plug the Video Cable to the Connector Box (RCA input), and then connect the other end of the Video cable to the video-in (composite input) slut in TV (or other display or Recording device, please refer to Peephole Viewer Camera Wiring Diagram for Different Applications in Introduction).

**A hint during installation:**
After you inserting door camera into peephole viewer and viewing the video image on a display device such as a LCD monitor, if the video image is not in the center position, you may try to rotate the Peephole front cap for adjusting and aligning the video image to the center position.

The reason is there are 2 set of optical lenses in the peephole door camera product. One set of optical lens is for wide-viewing angle peephole viewer, and other set of lens in on door camera. By rotating the peephole front cap, it can help to adjusting the peephole optical focus point to aligning with door camera’s lens for getting the video image to the center position.
5. Advantage of a Detachable Door Camera

- **Flexible and Detachable:** This device can fit any doors with a door thickness ranging from 3 cm to 5.5 cm and only need a small door hole diameter 1/2” (=1.2cm) for the top-quality peephole viewer. Once installed you can plug and unplug the door camera from the peephole viewer easily without any effort. If there is a power shut down in your house, you may just take the camera box out from the peephole viewer, and keep using the top-quality peephole to view outside.

- **Quality SONY CCD Camera:** The door viewer is implemented with optical calibrated lens to match a high quality Sony Brand color CCD camera. Both NTSC and PAL version of cameras available, we ship camera to you based on country TV standard.

- **Selection options for right-hand door and left-hand door:** Please refer to "additional product information"

- **Complete Kit with Cheap Price:** Cables, AC Power Adapter, and Connectors are all included in one package, ready for you to install and connect it to a TV or Monitor directly as shown in the following wiring graph. No need to shopping around for finding additional accessories.

- **Easy Expandable to Various Surveillance Systems:** You can connect the door viewer camera output to a TV/Monitor directly or connect it to other devices set up your own home surveillance system

**Question:**
What is the difference between the detachable door camera to a low-cost battery-operated Digital LCD Monitor Door Peephole Viewer?

**Answer:** A battery-operated Digital LCD Monitor Door Peephole Viewer has following disadvantages:

- **Running out of battery very fast,** you have to buy new battery or recharge the battery very often.

- **The LCD monitor has to be mounted and fixed on door.** You have to go to door to see what happened. It is not convenient for elderly person, and kids.

- When it is not working you may not know it is due to out-of-battery or camera damaged

- When its camera broken, you have to take the LCD monitor and camera out and just left an empty door hole on the door for fixing.

A battery-operated Digital LCD Monitor Door Peephole Viewer run out of battery very fast with noisy ring sound
Appendix:

I: Peephole Selection: There are 9 different models available.

<table>
<thead>
<tr>
<th>(C) Silver Chrome</th>
<th>Peephole</th>
<th>Minimum Door Hole Size</th>
<th>Maximum Allowable Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>C160</td>
<td></td>
<td>12mm (~1/2&quot;)</td>
<td>14mm (~7/16&quot;)</td>
</tr>
<tr>
<td>C190</td>
<td></td>
<td>12mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
<tr>
<td>C200</td>
<td></td>
<td>14mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(B) Brass</th>
<th>Peephole</th>
<th>Minimum Door Hole Size</th>
<th>Maximum Allowable Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>B160</td>
<td></td>
<td>12mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
<tr>
<td>B190</td>
<td></td>
<td>12mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
<tr>
<td>B200</td>
<td></td>
<td>14mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(D) Dark Black</th>
<th>Peephole</th>
<th>Minimum Door Hole Size</th>
<th>Maximum Allowable Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>D160</td>
<td></td>
<td>14mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
<tr>
<td>D190</td>
<td></td>
<td>14mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
<tr>
<td>D200</td>
<td></td>
<td>14mm</td>
<td>24mm (~15/16&quot;)</td>
</tr>
</tbody>
</table>

Note: If you add the metal ring, the door size requirements can be changed, please check following table.

<table>
<thead>
<tr>
<th>Required Door Hole Size for Peephole:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peephole</td>
</tr>
<tr>
<td>----------</td>
</tr>
<tr>
<td>160°</td>
</tr>
<tr>
<td>190°</td>
</tr>
<tr>
<td>200°</td>
</tr>
</tbody>
</table>

Note: If you add the metal ring, the door size requirements can be changed, please check following table.

<table>
<thead>
<tr>
<th>Door Hole Size for Peephole + Metal Ring:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peephole + Metal Ring</td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>160°</td>
</tr>
<tr>
<td>190°</td>
</tr>
<tr>
<td>200°</td>
</tr>
</tbody>
</table>

Note: All of them are made with metal material with top-quality optical lens.
II: Basic Door Camera selection for different Door Directions:

*Note:* add L (left) or add R (right) behind the peephole model name.

III: How to select your model #:

◊ If you like to order a black color, 190 degree door viewer camera for your right hand door, the model # would be D190R.
◊ If you like to add a motion-detect DVR with the camera, the model # would be D190RDVR

A X Y Z

A (Color Code):
- C = Silver Color,
- B = Brass (Gold) Color,
- D = Black Color

B (Viewing Angle):
- 160 Degree Angle
- 190 Degree Angle
- 200 Degree Angle

Y (Door Direction):
- L = left hand door,
- R = right hand door

Z (additional accessory): (for adding additional accessory, you may email seller for suggestions)
1. IP-DVR IP Video Server for viewing video through an internet access
2. DVR-S = Standalone Smart motion-trigger recorder Video Recorder
3. WiFi Video transceiver = WiFi Video Transceiver for viewing video through a Smart Phone (ie, iPhone, Android based phone),
4. LCD Monitor: 7" LCD Monitor

* This is an ad-hoc mode (P2P) transmission. After the WiFi P2P connection established, the WiFi transmission with your Phone would be purely for video signal transmission. The WiFi video transmitter cannot do any other Internet data transmission.
Note: Starting from year 2017, we are having additional options for door camera direction, and door camera color as shown in the following photo. **The default door camera direction would be (R) for right-hand door, and camera color would be white color (W).**

For any additional ordering information or built your own door camera surveillance system, please email us at ia-tecs@hotmail.com

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