Comparison of different types of door peephole camera in the market

Base on features and configurations, door peephole cameras can be classified as following 3 different types. We list advantages and disadvantages features of each category for your own reference.

<table>
<thead>
<tr>
<th>Type 1: Standalone door camera</th>
<th>Type 2: Fixed on door camera</th>
<th>Type 3: Detachable Door Camera</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Standalone camera" /></td>
<td><img src="image" alt="Fixed camera" /></td>
<td><img src="image" alt="Detachable camera" /></td>
</tr>
<tr>
<td>- No external wire showing on door</td>
<td>- Mini in size, with good video and can be viewed through various extendable display device.</td>
<td>- Detachable solution, combining a top-quality wide-viewing-angle peephole viewer and a door camera. Without a door camera, you still can use viewer to see outside,</td>
</tr>
<tr>
<td>- Standalone solution with door bell, LCD display.</td>
<td>- Can be installed as an extendable surveillance system: Video can be viewed from a distant location, and recording</td>
<td>- Mini in size</td>
</tr>
<tr>
<td>- Battery Operated: has to buy rechargeable battery and charger. It runs out of battery charge easily. Need recharge battery very often.</td>
<td>- Can be a wireless camera solution</td>
<td>- Can be installed with various extendable display device and DVR</td>
</tr>
<tr>
<td>- Can not be installed to link with any extended display monitor device</td>
<td>- Can used for a thicker door</td>
<td>- For extendable system: Video can be viewed from a distant location, and recording</td>
</tr>
<tr>
<td>- Has to walk to door to watch the LCD display. Not very convenient.</td>
<td>- Camera has to be fixed on door</td>
<td>- Can be a wireless camera solution</td>
</tr>
<tr>
<td>- Limited Viewing angle</td>
<td>- Need wire connection</td>
<td>- Fit for door thickness range from 30 – 50mm</td>
</tr>
<tr>
<td>- Some models can not fit for a thick door</td>
<td>- Limited viewing angle</td>
<td>- Need wire connection</td>
</tr>
</tbody>
</table>

www.peephole-store.com  www.iat101.com  ia-tecs@hotmail.com  shop@iat101.com
The front door is considered to be one of the most important parts of a house. It is the opening of a home.

An ideal front door must be tough enough to stop a would-be intruder, yet it has to be handsome enough for making a good impression to outside for bring good fortune and health to a family.

Before you decide to buy a DIY door peephole camera to match the design of your door and to provide good enough safety protection for your property and family members, there are some factors you may like to consider. We list the considerations in the following table.

### I. Factors for selecting a proper door peephole camera for your home safety:

<table>
<thead>
<tr>
<th>What is the characteristics of your front door for install a door camera</th>
<th>Size of your house / What kind of property or family members want to be protected?</th>
<th>What kind of safety level you want?</th>
</tr>
</thead>
</table>
| • Door hole size: (smaller hole is better)  
• Door thickness:  
• The electrical wiring distance required from door to the nearest wall plug  
• Is there is a good light source out side of your front door?  
• It is a right-hand door or left-hand door? | • Small Condo / Apartment, Medium-size house or a Large-size house  
• What family members in your house? Elder, Child, disabled person?  
• Do you stay home mostly or travel a lot? | • Viewing angle (viewing area outside of door).  
• Low security level: recommend Standalone door camera solution  
• Medium / High security level: recommend use Extendable door camera solutions (Detachable door camera or Fixed on door camera solution) |

### II. What are the important parameters need to check in a Door Camera specifications:

1. Camera Viewing angle?
2. Fit for what kind of door hole size (Barrel Diameter) , and door thickness?
3. Camera Minimum illumination (LUX): the lower LUX number the better for a dim front door environment. Recommend at least 0.1 LUX/F1.2
4. The number of TVL (TV lines)? Recommend at least 420TVL.

**Note:** If the LUX number is too high (for example the LUX is higher than 0.1LUX.) a higher TVL may not help to see clear video.

For example, we tested a 0.008LUX, 480TVL door camera shows much better video image comparing to a 0.5LUX 700 TVL camera.
Type 1: Standalone Door Camera Solutions

Major disadvantages:
- Battery Operated: run out of battery charge easily, has to buy rechargeable battery and recharge battery very often.
- When run out of charge, you may not know what exactly happened to the camera
- Can not be installed to link with any extended display monitor device (not an extendable solution)
- Has to walk to door to watch the LCD display. Not very convenient.
- Camera sensor is installed at outside of door. Camera can be damaged easily by smashing on purpose.
- Some cameras have limited viewing angle
**Type 2: Fixed on Door Camera Solution**

**Major drawbacks:**
- Camera sensor is installed at outside of door. Camera can be damaged easily by smashing on purpose.
- Regular design comes with big-size Video and Power plugs, it does not give good looking after installed on door

- **Wired Peephole Camera**
  - 120 or 170 degree viewing angle
  - 0.5LUX
  - For 21 mm door hole

- **5.8GHz Peephole Camera**
  - 90 degree viewing angles
  - 0.008LUX
  - For 13.8 mm door hole

- **Wired Peephole Camera**
  - 90 degree viewing angle
  - 0.008LUX
  - For 17.6 mm door hole
  - 35-55mm door thickness

- **Wired Peephole Camera**
  - 90 degree viewing angle
  - 0.008LUX
  - For 13.8 mm door hole

[Links]
- www.peephole-store.com
- www.iat101.com
- ia-tems@hotmail.com
- shop@iat101.com
Type 3: Detachable Door Camera Solution

Notifications:
- Detachable Door Camera combines a top-quality wide-viewing angle peephole viewer and a SONY CCD door camera sensor. It consists of 2 sets of lenses. One set of lens is on peephole viewer, and another set of lens is on door camera. Due to the limitation of focus distance between the special designed lens set, this product is designed fit for 30 to 50 mm of door thickness.
- For an easy installation and wiring connection, customers have to check your front door opening direction. For example, your front door is a Right-hand door or a Left-hand door.

Different Peephole Viewer Models available for your own selection

<table>
<thead>
<tr>
<th>Door Hole Size: 12mm</th>
<th>Door Hole Size: 14mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>160 Degree Viewing Angle</td>
<td>190 Degree Viewing Angle</td>
</tr>
<tr>
<td>200 Degree Viewing Angle</td>
<td></td>
</tr>
</tbody>
</table>

Silver Color
- Model: C160
- Model: C190
- Model: C200

Brass Color
- Model: B160
- Model: B190
- Model: D200

Dark Black Color
- Model: D160
- Model: D190
- Model: D200

Note:
Each model of the peephole viewer has its own focus lens, so each set of the detachable door camera lens is optically calibrated to match its own peephole viewer. Please do not use the door camera with any other unknown peephole viewer. It will cause a blurred video image.

www.peephole-store.com  www.iat101.com  ia-tecs@hotmail.com  shop@iat101.com
Available door camera solutions in our store: www.peephole-store.com

**Type 2: Fixed on Door Camera**
All cameras come with mini connector, 5-meter-long ultra-thin electrical wire and an AC adapter to match your country electrical wall plug.

- **Model: DC1**
  For door thickness: 33-56mm

- **Model: DC-2** (for thick door)
  For door thickness: 60-90mm

If your door thickness is more than 60mm, please contact seller first for getting a better design.

- **Model: W90_5.8GHz_TX#**
  TX1: for door thickness: 33-60mm
  TX2: for door thickness more than 60mm

*Note:* You will need a 5.8GHz receiver for a 5.8GHz wireless door camera system.

For a thick door, and viewing angle 170 degree

- **Model: BDC1**
  For door thickness 38-90mm; 24mm door hole; 480TVL

- **Model: BDC2**
  For door thickness 45-90mm; 20mm door hole; 700TVL

---

**Type 3: Detachable Door Camera**
All cameras come with connector box, 5-meter-long 6P4C telephone line wire, 10-meter-long low-resistance video cable and AC adapter to match your country electrical wall plug.

- **Model: C160**
  For 12mm door hole

- **Model: C190**
  For 14mm door hole

- **Model: B160**
  For 12mm door hole

- **Model: B190**
  For 14mm door hole

- **Model: D160**
  For 12mm door hole

- **Model: D190**
  For 14mm door hole

- **Model: D200**
  For 14mm door hole

*Note:* All detachable door cameras only good for door thickness from 30 – 50 mm

- **Model: C200**
  For 14mm door hole

- **Model: D200**
  For 14mm door hole

- **Model: D190**
  For 14mm door hole

- **Model: D200**
  For 14mm door hole

4 different color available (default color is with white case)

---

www.peephole-store.com  www.iat101.com  ia-tecs@hotmail.com  shop@iat101.com
Note: The door camera solutions listed in page 6 are basic model for connecting its video output to a TV LCD monitor. You may connect the video output to different accessory and view video from different device such as a Smart Phone (iPhone or android phone), PC, or through internet, etc…

You may contact us for DIY build your own home door camera surveillance system.

WiFi (Digital Wireless)

Model: WiFi-PA1
For remote location surveillance

Model: WiFi-PB1
For Local Area network surveillance

Internet IP DVR

All models have 4-Channel video inputs

RF Wireless

5.8GHz Receiver for Wireless Camera
Model: W90_5.8GHz_TX1 or Model: W90_5.8GHz_TX2
Example of an Extendable Door Camera Solution using an Internet IP DVR

Outside of your door

Your Home / Apartment

3G Wireless

iPhone/ iPad/ Android Smart Phone
WiFi Internet

WiFi Router

ADSL

Internet

3G Smart Phone

Ethernet Cable

TV LCD Monitor / VGA PC Monitor

Detachable door camera

DVR

ADSL

www.peephole-store.com

www.iat101.com

ia-tecs@hotmail.com

shop@iat101.com
Example: A Completed Home / Apartment / Office Camera Surveillance Solution

![Diagram of a home or office setup with camera surveillance system.](image-url)

- **Internet**
  - ADSL
  - Ethernet Cable
- **Office**
  - Soho DVR
  - 2.4GHz WiFi TXRX
  - TV LCD Monitor / VGA PC Monitor
- **Room 1**
  - Camera 1
  - AC adapter (Power Supply)
  - Connector Box
- **Room 2**
  - Camera 2
  - AC adapter (Power Supply)
  - 5.8GHz Video Transmitter

**Network Components**
- 5.8GHz Video Transmitter
- 5.8GHz Video Receiver
- 12 V DC adapter (Power Supply)
- 5 V DC adapter
- Ethernet Cable
- LOS (line of sight) 5.8GHz transmission

**Smartphone Connectivity**
- Smartphone to view video from 2.4GHz WiFi TXRX
- Smartphone to view 2.4GHz WiFi TXRX

**Additional Information**
- ia-tecs@hotmail.com
- shop@iat101.com
- www.peephole-store.com
- www.iat101.com

**Floor Plan of Your Home / Apartment / Office**

---

Ultra mini camera in Room 2
Ultra mini camera in Room 1
Door Camera
Connector Box
12 V DC adapter (Power Supply)
5 V DC adapter
Ethernet Cable
ADSL
TV LCD Monitor / VGA PC Monitor
Soho DVR
2.4GHz WiFi TXRX
5.8GHz Video Receiver
5.8GHz Video Transmitter
Smartphone to view video from 2.4GHz WiFi TXRX
Smartphone to view 2.4GHz WiFi TXRX
DVR Video Output
9
ia-tecs@hotmail.com
shop@iat101.com
www.peephole-store.com
www.iat101.com