Thank you for selecting Aiphone for your communication and security needs. Please read this manual carefully for proper system operation. For future reference, keep manual in a safe place.
**PRECAUTIONS**

**WARNING**

Negligence could result in death or serious injury.

1. Do not dismantle or alter the unit. Fire or electric shock could result.
2. Keep the unit away from water or any other liquid. Fire or electric shock could result.
3. High voltage is present internally. Do not open the case. Electric shock could result.
4. Do not connect any non-specified power source to the +, - terminals. Also, do not install two power supplies in parallel to a single input. Fire or damage to the unit could result.
5. Do not use power supply with a voltage other than specified. Fire or electric shock could result.
6. Do not put any metal or flammable material into the unit through the openings. Fire, electric shock, or unit trouble could result.
7. The unit must be installed and wired by a qualified technician.

**CAUTION**

Negligence could result in injury or damage to property.

1. Do not install or make any wire terminations while power supply is plugged in. It can cause electrical shock or damage to the unit.
2. When mounting the unit on a wall, install the unit in a convenient location, but not where it could be jarred or bumped. Injury could result.
3. Before turning on power, make sure wires are not crossed or shorted. Fire or electric shock could result.
4. Do not install the unit in locations subject to frequent vibration or impact. It may fall or tip over, resulting in damage to the unit or personal injury.
5. For power supply, use Aiphone power supply model specified for use with system. If non-specified product is used, fire or malfunction could result.
6. Do not put anything on the unit or cover the unit with cloth, etc. Fire or unit trouble could result.
7. Do not install the unit in any of the following locations. Fire, electric shock, or unit trouble could result.
   - Places under direct sunlight or near heating equipment that varies in temperature.
   - Places subject to direct sunlight or near heating equipment that varies in temperature.
   - Places subject to moisture and humidity extremes, such as bathrooms, cellars, greenhouses, etc.
   - Places where the temperature is quite low, such as inside a refrigerated area or in front of an air conditioner.
   - Places subject to steam or smoke (near heating or cooking surfaces).
   - Places subject to steam or smoke (near heating or cooking surfaces).
   - Where noise generating devices such as dimmer switches or inverter electrical appliances are closeby.
   - Locations subject to frequent vibration or impact.
8. Do not apply high pressure on the screen. If fractured, injury could result.
9. If the LCD is punctured, do not allow skin contact with the liquid crystal inside. Inflammation could result.
   - If liquid crystal is ingested, immediately gargle with water and seek medical attention.
   - If contact with the eyes or skin occurs, clean with pure water and seek medical attention.

**GENERAL PRECAUTIONS**

1. Keep the unit more than 1m (3.3') away from radio or TV set.
2. Keep the intercom wires more than 30cm (12") away from AC 100-240V wiring. AC induced noise and/or unit malfunction could result.
3. Comply with all third party manufacturing specifications that will be used with this system (sensors, door releases, etc.).
4. If the unit is down or does not operate properly, unplug the power supply.
5. When wall-mounted, the top of the unit may darken. This does not indicate a malfunction.
6. The unit case may become warm with use, but this is not a unit malfunction.
7. If the unit is used near a cellular phone, the unit may malfunction.
8. The unit can be damaged if dropped. Handle with care.
9. The unit will not work during power failure.
10. In areas where broadcasting station antennas are close by, the intercom system may be affected by radio frequency interference.
11. All the units, except for door stations, are designed for indoor use only. Do not use at outdoor locations.
12. This product, providing door release, should not be used as a crime prevention device.
13. Please note the LCD panel, though manufactured with very high precision techniques, inevitably will have a very small portion of its image elements always lit or not lit at all. This is not considered a unit malfunction.
14. Environmental sound around the unit may hinder smooth communication, but this is not a malfunction.
15. At night, due to reduced lighting on the object, the screen sees more noise and faces become more difficult to see, but this is not a malfunction.
16. For hands-free communication:
   - If you stand too far away, it may be difficult for the other person to hear the communication.
   - If there are loud noises around the unit (such as music playing or children crying), the sound may break up and be difficult to hear.
17. During communication, if you speak before the other person has finished talking, your voice may not come through clearly. Communication will proceed smoothly if you wait until the other person has finished before speaking.
18. At a gate or porch illuminated by a fluorescent lamp, the image may vary, but this is not a malfunction.
19. The outline of video images displayed by the video door station may differ from that of the actual person(s) or background, but this is not a malfunction.
20. The tone of voice for the other person may be low or difficult to hear, but this is not a malfunction.
21. If the surface of a video door station freezes during wintertime, the image may become difficult to see or the call button may not move, but this is not a malfunction.
22. Warm-color lighting shining on the video door station may change the tint of the image on the screen.
23. When outside temperature lowers sharply after rainfall, etc., the inside of the camera may fog up slightly, causing a blurry image, but this is not a malfunction. Normal operation will be restored when moisture evaporates.
24. When the unit’s screen is illuminated with strong light, the image looks white or silhouetted, but this is not a malfunction.

**NOTICES**

* We will under no conditions be liable for damage occurring due to the inability to communicate due to malfunctions, problems, or operational errors in this product’s contents or specifications.
* We will under no conditions be liable for any damages or losses resulting from this product’s contents or specifications.
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* Please note that images and illustrations depicted in this manual may differ from the actual ones.
* Please note that this manual may be revised or changed without prior notice.
* Please note that product specifications may be changed for the sake of improvement without prior notice.
* This system is not intended for life support or crime prevention. It is a supplementary means of conveying information. Aiphone will under no conditions be liable for loss of life or property which occurs while the system is being operated.
* Lighting adjustments are made automatically by the door station. Adjustment results may vary depending on installation environment.
PACKAGE CONTENTS

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<th>S-1V</th>
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<td>✓</td>
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<tr>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
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<td>Special screw</td>
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</tr>
<tr>
<td>name plate</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
- Mounting and Wood mounting screws not included
- For details on the power supply, see the installation manual separately.
**PART NAMES**

**Color LCD screen**
Displays camera images during door station call-ins, communication with door station, and door station monitoring.

**Status LED (orange)**
Indicates the current status of this station by lighting up or blinking.
- **On**: During communication sending, while the door release button is being pressed, or while the option button is being pressed.
- **Flashing**: During communication reception in the PTT mode, during short detection or during mute.

**Monitor button**
Monitor a door station.

**Option button**
To activate/trigger external device.

**Screen brightness control button**
Adjusts LCD screen brightness.
- **Brightness adjustment range**: 1 - 5

**Door release button**
Unlocks door.

**Talk/off button**
Starts or ends communication.

**Speaker**
Call tones, sounds from a door station.

**RESET button**
Press this button to reboot this station when it is not responding.

**Volume control button**
Adjust the calling volume.
- **Volume adjustment range**: 0 - 5

**Camera**
Captures images to display on the screens of the master and expansion monitor station.

**Microphone**
Sends sounds from the door station to the master and expansion monitor station.

**Illumination sensor**
Detects outside illuminance to recognize whether it is daytime or nighttime.

**Drainage holes**
These are for discharging rain water inside the unit. Do not obstruct these holes.

**Camera-angle adjustment switch**
The camera-angle adjustment switch is behind the panel. Pushing the button changes the angle of the camera.
- **+17° (Upward)**
- **+7° (Upward)**
- **0° (Center)**
- **-7° (Downward)**

**Call button with white light LED**
Calls the preset master and expansion monitor station. Lights up automatically when it gets dark around this station.

**Call button**
The backlight is always lit while the power is on.

**Vandal resistant front panel**

**Volume control button**
Adjust the communication volume.
- **Volume adjustment range**: 1 - 3

**Screen brightness control button**
Adjusts LCD screen brightness.
- **Brightness adjustment range**: 1 - 3

**Camera**
Captures images to display on the screens of the master and expansion monitor station.

**Microphone**
Sends sounds from the door station to the master and expansion monitor station.

**Illumination sensor**
Detects outside illuminance to recognize whether it is daytime or nighttime.

**Speaker**
Outputs sounds from the master or expansion monitor station.

**Call button with white light LED**
Calls the preset master and expansion monitor station. Lights up automatically when it gets dark around this station.

**Call button**

**Vandal resistant front panel**
## INSTALLATION

### Cable
Use PE (polyethylene)-insulated PVC jacket cable. Parallel or jacketed 2-conductor, mid-capacitance, non-shielded cable is recommended. Never use individual conductors, twisted pair cable, or coaxial cable.

### Wiring method, wiring distance

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>AWG</th>
<th>Distances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 0.65 mm</td>
<td>22 AWG</td>
<td>50 m 165’</td>
</tr>
<tr>
<td>Ø 0.8-1.2 mm</td>
<td>20-16 AWG</td>
<td>100 m 330’</td>
</tr>
</tbody>
</table>

### Mounting locations

Do not install door station and master monitor station in any of the following locations where lighting or the ambient environment could impact the display on the video monitor.

- **JO-DA, JO-DV, JO-DVF**
  - a. In direct sunlight
  - b. Under street lights or door lights
  - c. Other locations subject to strong lighting or backlighting conditions

- **JO-1MD**
  - a. In direct sunlight
  - b. Avoid installing the master monitor station in a concave space of a wall to prevent disconnection of communication
  - c. Allow at least 15 cm (6”) above and 25 cm (9”) below center of the mounting bracket for installation of the station

### Mounting positions and image view area

**JO-DA:** Refer to below diagrams when the camera angle is changed with the adjustment switch.

1. **[Horizontally]** Camera angle: 0°
   - Approx. 1,800 mm (5’ 11”)

2. **[Vertically] Camera angle: 7°**
   - Approx. 1,750 mm (5’ 9”)

3. **[Vertically] Camera angle: 17°**
   - Approx. 1,500 mm (4’ 11”)
   - (When the station is at a high position due to a step)

4. **[Vertically] Camera angle: -7°**
   - Approx. 1,500 mm (4’ 11”)

---

*Diagram images and tables are not included in this text representation.*
MOUNTING

Ø -1MD

<Back wiring>

1. Fasten the mounting bracket to the wall

2. Press release button to insert or remove wire.
   1. Insert wire into the terminal.

3. Mount the unit on the mounting bracket.

Mounting screw × 4
(Screw shaft: Ø4.1)
(Slotted Head: Ø8.2 or less
Height 3.0mm or less)
(not included)

Wires

<Surface wiring>

When the wiring is not coming through the wall, the wires can be routed to the top or bottom of the unit. Remove cable inlet plate on the upper part of the unit to allow passage of the wiring into the unit.

Remove cable inlet plate

Wood mounting screw × 4
(Screw shaft: Ø4.1)
(Slotted Head: Ø8.2 or less
Height 3.0mm or less)
(not included)
**O-DA**

1. **Remove the main unit from the mounting frame by loosening the locking screws**
   - **Screwdriver**
   - **Tighten**
   - **Loosen**

   - **Mounting screw x 2**
     - (Screw shaft: Ø4.1)
     - (Slotted Head: Ø8.2 or less)
     - (Height 3.0mm or less)
     - (not included)

   - **Main unit**

   - **Place "U" UP upwards**

   - **1-gang box**

   - **83.5 mm (3-5/16")**

   - **Mount the main unit on the mounting frame, and fit the front panel on.**

   - **Front panel**

   - **Main unit**

   - **Removing the front panel**

   - **<Bottom surface>**

   - **Flathead screwdriver**

   - **Pry off the front panel with a flathead screwdriver.**

2. **Fasten the mounting frame to the wall.**

   - **Installation height**

   - (center of the unit)

   - **1,500 mm (5')**

3. **Connect wires.**

   - **Wire slot**

   - **Insert a wire from the lower side.**

**O-DV**

1. **Loosen the special screw with the special screwdriver, and remove the front panel.**

   - **Special screwdriver (included)**

   - **Loosen**

   - **Tighten**

   - **Vandal resistant front panel**

   - **The unit**

   - **Mounting screw x 4**

   - (Screw shaft: Ø4.1)

   - (Slotted Head: Ø8.2 or less)

   - (Height 3.0mm or less)

   - (not included)

   - **75 mm**

   - **1-31/32"**

   - **150 mm**

   - **5-15/16"**

   - **70 mm**

   - **2-3/4"**

   - **(The diameter and the depth of the holes on the wall depend on the anchors suitable for the mounting screws used.)**

2. **Insert the transparent name plate.**

   - **1. Peel off the protective seals on the plate (both sides).**

   - **2. Fill in the name on the transparent name plate.**

   - **Be sure to leave 25 mm (1") of white space on the right end to account for insertion.**

   - **3. Insert the filled-in transparent name plate as below (indicated with in diagram).**

   - **Insert transparent name plate here.**

   - **25 mm**

   - **2 mm (1/8")**

   - **ABCDEF**

**O-DVF**

1. **Install the flush mount back box in the wall, and then connect the wires to the unit with the terminal cover open.**

   - **Flush mount back box (included)**

   - **Vandal resistant front panel with the unit attached**

   - **110 mm**

   - **4-3/8"**

   - **180 mm**

   - **7-3/32"**

   - **45 mm**

   - **1-25/32"**

2. **Insert the transparent name plate.**

   - *See above O-DV for details.*

   - **Special screw x 4 (included)**

   - **Hexagonal wrench (included)**

   - **Transparant name plate**

   - **150 mm**

   - **5-15/16"**

   - **Insert the transparent name plate.**

   - **Loosen**

   - **Tighten**

   - **Special screw**

   - **Do not block the holes.**

   - **Drainage hole**

   - **Insert transparent name plate here.**

3. **Fasten the front panel to the back box with the special screws.**
Insert wires securely into each terminal as shown.

**NOTES:**
- To add an expansion monitor station, see the installation manual of the expansion monitor station.
OPERATIONS

Answering a door call

1. Push Call button.
2. The call tone sounds, an image appears on screen.
   • The screen turns off after approx. 45 seconds if not answered.

3. Push \( \text{PTT} \), and after the beep, communicate hands-free (hands-free mode).

4. After finishing communication, push \( \text{PTT} \) and communication will end after the beep.

NOTES:
• Communication ends automatically after approx. 1 minute.
• The communication volume can be adjusted during the monitoring or the communication by pressing \( \text{Volume} \).

For loud outdoor areas, use Press-to-Talk mode (PTT)

After 2 seconds or more

1. Press and hold \( \text{PTT} \) for 2 seconds or more. After approx. 2 seconds beep sounds, PTT mode is engaged.
   • If \( \text{PTT} \) is pressed briefly, PTT mode is not engaged.

2. When communicating, keep \( \text{PTT} \) pressed. To hear the caller’s voice, release \( \text{PTT} \).
   Status LED lights when you talk, and flashes slowly as you listen to caller (or hear outside sounds).

NOTES:
• It is not possible to switch back to hands-free mode (from PTT mode during communication).

Activating door release

1. Press \( \text{Door Release} \).
2. Door release is activated and door can be opened.
   During release: Status LED lights.
Monitoring door station

1. Push \( \text{ ] } \) in standby mode.

2. The video image from the door station and the incoming audio is heard. If you do not push \( \text{ ] } \), the caller will not hear sounds from the inside station.

3. Push \( \text{ ] } \) to end monitoring.

NOTES:
- To talk to door station during monitoring, momentarily push \( \text{ ] } \). This allows communication with the door station.
- The monitoring turns off automatically after approx. 1 minute.

Adjust call tone \( \text{ ] } \) volume

1. Push \( \text{ ] } \) in standby mode to adjust call tone volume and display the volume level.

2. Push \( \text{ ] } \) until the desired call tone volume level is heard.

NOTES:
- There are four call tone volume settings to cycle through: \( \text{ [ ] } \) (Mute), \( \text{ [ ] } \) (Minimum) - \( \text{ [ ] } \) (Maximum). The current volume level is displayed on the screen and disappears in approx. 5 seconds. The default setting is \( \text{ [ ] } \) (Medium).

Night illumination

At night, the door station White light LED lights up during calling or monitoring door station.

<When a call is made from the door station>
If Call button is pushed, the White light LED lights up. When communication ends, the White light LED will turn off.

<When the white light LED is lit up during monitoring door station>
When \( \text{ ] } \) is pushed during monitoring door station, the White light LED will light up. When monitoring door station ends, the White light LED will turn off.

NOTES:
- The door station evaluates lighting conditions to automatically turn on the white light LED when necessary.
TECHNICAL PRECAUTIONS

Cleaning:
• Clean all units with a soft cloth and gentle cleaner. Do not spray cleaner directly on unit. Do not use an abrasive cleaner or cloth.
• Door stations are weather resistant.

Wiring:
• When a short is detected between A1 and A2 of the door station, the unit stops functioning and the Status LED flashes rapidly until the short is removed. Check the wires.
• If noise is heard from the master monitor station, the wiring is disconnected between the video door station and the master monitor station.

Trouble:
• If the station does not respond, reboot this station by pressing the RESET button.
• When the power supply is turned off, power failure, or the RESET button is pressed, the setting of brightness, communication volume, and call tone volume are returned to the default setting.

SPECIFICATIONS

JO -1 MD (Master monitor station)

<table>
<thead>
<tr>
<th>Field</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>DC 18V (from power supply)</td>
</tr>
<tr>
<td>Current consumption (standby)</td>
<td>24mA (max) 410mA</td>
</tr>
</tbody>
</table>
| Communication              | Hands-free: Auto-voice actuation
PTT: Press-to-talk, release to listen                  |
| Ambient temperature        | 0 - 40°C (+32°F - +104°F)                               |
| Monitor                    | 7 inch color LCD screen                                |
| Mounting                   | Wall-mount                                             |
| Electrical box             | 3-gang box                                             |
| Material                   | Flame resistant ABS resin                              |
| Color                      | White                                                  |
| Dimension                  | 130 (H) x 230 (W) x 21 (D) (mm)                       |
|                           | 5-1/8 (H) x 9-1/16 (W) x 13/16 (D) (inches)           |
| Weight                     | Approx. 470g (1.04 lbs.)                               |

JO -DA/JO -DV/JO -DV F (Video door station)

<table>
<thead>
<tr>
<th>Field</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camera unit</td>
<td>1/4 - inch color CMOS</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>-20 - 60°C (-4°F - +140°F)</td>
</tr>
<tr>
<td>Minimum illumination</td>
<td>Approx. 5 lux at 50 cm (1'6&quot;) distance</td>
</tr>
<tr>
<td>Dimensions (JO-DA)</td>
<td>129 (H) x 97 (W) x 36 (D) (mm)</td>
</tr>
<tr>
<td></td>
<td>5-3/32 (H) x 3-27/32 (W) x 1-13/32 (D) (inches)</td>
</tr>
<tr>
<td></td>
<td>173 (H) x 98 (W) x 27 (D) (mm)</td>
</tr>
<tr>
<td></td>
<td>6-13/16 (H) x 3-7/8 (W) x 1-3/8 (D) (inches)</td>
</tr>
<tr>
<td></td>
<td>209 (H) x 135 (W) x exposed area 3.5 (D) (mm)</td>
</tr>
<tr>
<td></td>
<td>8-1/4 (H) x 5-5/16 (W) x 5/16 (D) (inches)</td>
</tr>
<tr>
<td>(Flush mount back box for JO-DVF)</td>
<td>180 (H) x 110 (W) x 45 (D) (mm)</td>
</tr>
<tr>
<td></td>
<td>7-3/32 (H) X 4-3/8 (W) X 1-25/32 (D) (inches)</td>
</tr>
<tr>
<td>Weight (JO-DA)</td>
<td>Approx. 200 g (0.44 lbs.)</td>
</tr>
<tr>
<td>Weight (JO-DV)</td>
<td>Approx. 650 g (1.43 lbs.)</td>
</tr>
<tr>
<td>Weight (JO-DVF)</td>
<td>Approx. 580 g (1.27 lbs.)</td>
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<tr>
<td>(Flush mount back box for JO-DVF)</td>
<td>Approx. 550 g (1.2 lbs.)</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP54 (JO-DA / JO-DV / JO-DVF)</td>
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<tr>
<td>IK rating</td>
<td>IK08 (JO-DV)</td>
</tr>
<tr>
<td></td>
<td>IK07 (JO-DVF)</td>
</tr>
</tbody>
</table>
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Aiphone garante que seus produtos não estão afetados de algum defeito de matéria ni de fabricação, em caso de utilização normal e de reparações conformes, durante uma períodos de dois anos após a entrega ao utilizador final e a reparação gratuita ou substituição gratuita, devendo ser devolvido à Aiphone ao longo do período de garantia. Aiphone reserva-se o direito exclusivo de tomar a decisão final se há defeito em materiais e/ou fabricação; e se o produto não estiver dentro da garantia. Este garantia não se aplica a nenhum Aiphone produto que tenha sido sujeito a uso inadequado, negligência, acidente, sobrecarga de energia ou que tenha sido usado de forma diferente às instruções fornecidas, ou se o produto não tiver sido reparado ou alterado fora de fábrica. Este garantia não cobre a bateria ou danos causados por baterias usadas em conjunto com a unidade. Esta garantia cobre apenas as reparações especificadas na mesa de trabalho e qualquer reparação deve ser efectuada no local designado por escrito pela Aiphone. Esta garantia se limita às especificações estabelecidas no manual de funcionamento. Esta garantia não cobre nenhuma função adicional de um produto de terceiros que tenha sido adicionado por os usuários ou fornecedores. Tenha em mente que os danos ou outros problemas causados por um fallo de funcionamento ou interconexão com os produtos da Aiphone tampouco estão cobertos por esta garantia. Aiphone não se responsabilizará por custos incurríveis ou danos causados por um fallo de funcionamento ou interconexão com os produtos de Aiphone que tenham sido usados fora do seu produto. Aiphone não se responsabilizará por qualquer perda ou dano que se incurve devido à perda ou falha dos seus produtos durante o uso, ou por qualquer inconveniente ou perda que se produza como consequência.

Garantía

Aiphone garanta que sus productos estén libres de defectos de material y mano de obra, en uso y servicio normal, por un período de dos años después de la entrega final al usuario y reparará sin costo, o reemplazará sin cargo, si llegara a resultar defectuoso, mediante una inspección que determine que é defectuoso el producto de Aiphone y en garantía. Aiphone se reserva para si la facultad única de tomar la decisión final para juzgar si existe una falla en materiales y/o mano de obra, y si el producto está o no cubierto por la garantía. Esta garantía no se aplicará a ningún producto Aiphone que haya sido sometido a maltrato, negligencia, accidente, sobrecarga de energía o que haya sido usado de manera diferente a las instrucciones proporcionadas, o bien por las unidades que hayan sido reparadas o alteradas fuera de fábrica. Esta garantía no cubre baterías o daños causados por baterías usadas en conjunto con la unidad. La garantía cubre solo las reparaciones efectuadas en la mesa de trabajo y cualquier reparación debe ser efectuada en el taller o lugar designado por escrito por Aiphone. Esta garantía se limita a las especificaciones estándar indicadas en el manual de funcionamiento. Esta garantía no cubre ninguna función adicional de un producto de terceros que haya sido añadido por los usuarios o proveedores. Tenga en cuenta que los daños o otros problemas causados por un fallo de funcionamiento o por la interconexión con los productos de Aiphone tampoco están cubiertos por la garantía. Aiphone no se responsabilizará por costos incurríveis o daños causados por un fallo de funcionamiento o interconexión con los productos de Aiphone que hayan sido usados fuera de fábrica. Aiphone no indemnizará por ninguna pérdida o daño que se incurve debido a la a avería o falla de sus productos durante su uso, si por ningún inconveniente o pérdida que se produzca como consecuencia.

GARANTIE