AIPHONE

JK-DVF-AC

Vandal-resistant Color Video Door Station with Access Control Keypad
Platine vidéo couleur résistante au vandalisme avec clavier à codes rétro-éclairé
Antivandalisme deurpost met kleurencamera en ingebouwd codeklavier

INSTALLATION & OPERATION MANUAL
MANUEL D'INSTALLATION ET D’UTILISATION
INSTALLATIE & GEbruikshandleiding
### RECORD OF SETTINGS AND REGISTRATION DETAILS FOR ACCESS CONTROL
(Please make sure to write down your settings below.)

**AIDE MEMOIRE DES PROGRAMMATIONS ENREGISTREES POUR LE CLAVIER**
(Faire en sorte de bien noter vos réglages ci-dessous.)

**LIJST MET GEPROGRAMMEERDE INSTELLINGEN EN CODES VOOR CODEKLAVIER**
(Zorg ervoor uw instellingen hieronder op te schrijven.)

<table>
<thead>
<tr>
<th>Key illumination time</th>
<th>Relay output time</th>
<th>Operation tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temps d'éclairage</td>
<td>Temps de relais</td>
<td>Bip de fonctionnement</td>
</tr>
<tr>
<td>Verlichtingsduur klavier</td>
<td>Relais 1</td>
<td>Zoemer klavier</td>
</tr>
</tbody>
</table>

#### Master code
**Code maître**
**Hoofdcode**

#### External output setting
**Paramétrage de sortie externe**
**Activierung Alarmuitgang**

#### Lockout
**Blocage**
**Blokking klavier**

#### Auto-relock
**Auto-reverrouillage**
**Automatische hersluiting**

#### Timer-linked unlocking
**Déverrouillage lié à l'horloge**
**Tijdsgebonden ontgrendeling**

<table>
<thead>
<tr>
<th>Relay</th>
<th>Relay 1</th>
<th>Relay 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec</td>
<td>sec</td>
<td>sec</td>
</tr>
</tbody>
</table>

#### Operation tone
**Bip de fonctionnement**
**Zoemer klavier**

<table>
<thead>
<tr>
<th>Relay</th>
<th>Relay 1</th>
<th>Relay 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>sec</td>
<td>sec</td>
<td>sec</td>
</tr>
</tbody>
</table>

### Registered User Code List
**Liste des codes utilisateur programmés**
**Lijst Codes Geregistreerde Gebruikers**

<table>
<thead>
<tr>
<th>group 1 / groupe 1 / groep 1</th>
<th>group 2 / groupe 2 / groep 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>60</td>
</tr>
<tr>
<td>01</td>
<td>61</td>
</tr>
<tr>
<td>02</td>
<td>62</td>
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<td>03</td>
<td>63</td>
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<td>04</td>
<td>64</td>
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<td>05</td>
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<td>07</td>
<td>67</td>
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<td>08</td>
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<td>69</td>
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<td>10</td>
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<td>74</td>
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<td>83</td>
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<td>86</td>
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<td>27</td>
<td>87</td>
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<tr>
<td>28</td>
<td>88</td>
</tr>
<tr>
<td>29</td>
<td>89</td>
</tr>
</tbody>
</table>
English

Thank you for selecting Aiphone for your communication and security needs. Please read this manual carefully before installation, and keep it in a safe place for future reference.

* Refer to the “INSTALLATION & OPERATION MANUAL” for the JK-1MED or JK-1MD for complete information regarding this system.

PRECAUTIONS

⚠️ WARNING

(Negligence could result in death or serious injury to people)

1. The unit must be installed and wired by a qualified technician. Having installation performed by an unqualified technician could result in electric shock.
2. Do not connect any non-specified power source to the V, V terminals, and do not install two power supplies in parallel to a single input. Fire, damage to the unit, or system malfunction could result.
3. The unit is not explosion-proof. Do not install or use near gases or flammable materials. Fire or explosion could result.
4. Do not dismantle or alter the unit. Fire or electric shock could result.
5. Do not allow the wires or DC output terminals to be shorted. Fire or electric shock could result.
6. Existing wiring such as chime wiring, etc. may contain high voltage AC electricity. Damage to the unit or electric shock could result. Wiring and installation should be done by a qualified technician.

⚠️ CAUTION

(Negligence could result in injury to people or damage to property)

1. 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.
2. Do not install or make any wire terminations while power supply is plugged in. It can cause electrical shock or damage to the unit.
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 any of the following locations. Fire, electric shock, or unit trouble could result.
   * Places subject to dust, oil, chemicals, hydrogen sulfide (hot spring).
   * Places subject to moisture and humidity extremes, such as bathroom, cellar, greenhouse, etc.
   * Places where the temperature is quite low, such as inside a refrigerated area or in front of air-conditioner.
   * Places subject to steam or smoke (near heating or cooking surfaces).
   * Where noise generating devices such as dimmer switches, inverter electrical appliances, are closeby.
5. Do not put anything on the unit or cover the unit with cloth, etc. Fire or unit trouble could result.

GENERAL PRECAUTIONS

1. This product, being a control unit of door release, should not be used as a crime-prevention device.
2. This product is weather-resistant, but do not spray high-pressure water on it. Unit trouble could result.
3. The product becomes inoperative during power failure.
4. As to other manufacturer's devices, such as sensor, door releases, timer, used with this system, comply with the Specifications and Warranty conditions manufacturers or venders present.
5. When outside temperature lowers sharply after rainfall, etc., the inside of the camera may fog up slightly, causing a blurry picture, but this is not a malfunction. Normal operation will be restored when moisture evaporates.
6. Due to the environmental sound around the unit, it may hinder smooth communication, but this is not a malfunction.

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**PACKAGE CONTENTS**

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<th>Special screwdriver</th>
<th>Transparent nameplate (x2)</th>
<th>Installation &amp; Operation manual</th>
</tr>
</thead>
</table>

**MOUNTING**

**Mounting locations**

"Do not install this unit in any of the following locations where lighting or the ambient environment could impact the display on the video monitor due to the characteristics of the door station's camera."

a. Locations subject to direct sunlight

b. Under street lights or door lights

c. Other locations subject to strong lighting or backlighting conditions

**Mounting positions and image view area of Video door station**

- **Wide picture**

- **Zoom picture**

- **Objects appear smaller due to greater distortion in the surrounding sections compared to the central section, but a wider area is displayed. The display range is a rough estimation and may change due to the installation environment.**

- **The zoom position can be changed. (Refer to the master station's operation manual.) The factory setting is "Center" for Zoom mode.**

- **An area over a range of approx. 170° in a 500 mm (20") radius from the camera displays. (The display range is a rough estimation and may change due to the installation environment.)**

- **Approx. 2,300 mm (7' 7") Approx. 1,900 mm (6' 4")**

- **Approx. 800 mm (2' 7")**

- **Approx. 1,300 mm (4' 3")**
Mounting

1. Detach the door station from the flush mount back box by removing the screws with the special screwdriver that is supplied with the unit.
2. Attach the flush mount back box to the wall.
3. Route wiring through the flush mount back box and connect wires to the door station.
   * See page 5 and 6 for details on wiring and connections.
4. Attach the door station to the flush mount back box.
   * Be sure to use the original screws to reattach the door station to the flush mount back box.

Notes on handling wires
- After stripping back the cable jacket from the conductors, waterproof the area that has been cut by wrapping insulation tape around the end of the jacket. Additionally, position the cable downward to prevent rainwater or moisture from seeping into the cable.
- Do not bend the wires at a sharp angle to prevent them from breaking as they age.

Using the transparent nameplates
Inserting the transparent nameplates
1. Remove the door station from the flush mount back box.
2. Peel off the protective seals on the plate (both sides).
3. Fill in the name of the resident on the transparent nameplate. Be sure to leave 25 mm (1") of white space on the left end to account for insertion.
4. Insert the filled-in transparent nameplate at the specified insertion opening on the rear side of the door station (indicated with in diagram).

PART NAMES

Special screws for panel mounting

Video door station

Access control keypad

Special screws for panel mounting

Camera
Microphone
White light LED
Speaker
Directory card
Call button
LED indicator (Orange)
LED indicator (Green)
Keys (Yellow)
WIRING AND CONNECTIONS

Outline of connections and wiring distance

Wiring distance

<table>
<thead>
<tr>
<th>Power supply</th>
<th>Diameter</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.65 mm (22 AWG)</td>
<td>50m (165')</td>
</tr>
<tr>
<td></td>
<td>1.0 mm (18 AWG)</td>
<td>100m (330')</td>
</tr>
<tr>
<td>B</td>
<td>0.65 - 1.0 mm (22 - 18 AWG)</td>
<td>100m (330')</td>
</tr>
<tr>
<td></td>
<td>0.65 - 1.0 mm (22 - 18 AWG)</td>
<td>300m (980')</td>
</tr>
<tr>
<td>C</td>
<td>0.65 - 1.0 mm (22 - 18 AWG)</td>
<td>300m (980')</td>
</tr>
</tbody>
</table>
| D            | -        | The connection distance will depend on the specifications of the electric door strike, relays or electromagnetic door lock to be connected. To determine the operating range, please refer to the specifications of each terminal.

Terminal names

(Terminals for Video door station)

(Terminals for Access control keypad)
Connection examples

Connection of Relay 1 only

Relay 1: Automatic gate (N/O contact), Relay 2: Electric door strike (N/O contact)
## FUNCTIONS/SETTING UP FOR ACCESS CONTROL

This section explains the settings of each function, including the master code for management, the user code for unlocking, the buzzer and the LEDs.

### About the setting mode:

Enter master code twice to switch to the setting mode, and enter the following setting code to perform the settings for the desired function. After settings have been made, enter the following setting codes to continue the setting operation. Press \( \text{B} \) to exit the setting mode.

### Setting Items

<table>
<thead>
<tr>
<th>Setting Items</th>
<th>Allowable setting range</th>
<th>Default value</th>
<th>Setting code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Setting the code length</td>
<td>4, 5, or 6 digits</td>
<td>4 digits</td>
<td>A 3</td>
</tr>
<tr>
<td>II Setting the master code</td>
<td>1 Valid keys: 0 - 9, A, B</td>
<td>1234</td>
<td>A 4</td>
</tr>
<tr>
<td>III Setting the code for user group 1</td>
<td>Number of codes: 60</td>
<td>-</td>
<td>0 0 - 0 9</td>
</tr>
<tr>
<td>IV Setting the code for user group 2</td>
<td>Number of codes: 40</td>
<td>-</td>
<td>6 0 - 9 9</td>
</tr>
<tr>
<td>V Setting the key illumination time</td>
<td>Illumination time: 10 to 99 seconds, or continually lit</td>
<td>10 Sec.</td>
<td>A 0</td>
</tr>
<tr>
<td>VI Setting the relay 1 output time</td>
<td>Output time: 1 to 99 seconds, or latched</td>
<td>3 Sec.</td>
<td>A 1</td>
</tr>
<tr>
<td>VII Setting the relay 2 output time</td>
<td>Output time: 1 to 99 seconds, or latched</td>
<td>3 Sec.</td>
<td>A 2</td>
</tr>
<tr>
<td>VIII Reset Settings</td>
<td>Return all the settings to their default values.</td>
<td>-</td>
<td>A 5</td>
</tr>
<tr>
<td>IX External output setting</td>
<td></td>
<td>OFF</td>
<td>A 6</td>
</tr>
<tr>
<td>X Lockout</td>
<td></td>
<td>OFF</td>
<td>A 7</td>
</tr>
<tr>
<td>XI Auto-relock (Anti-tailgate)</td>
<td></td>
<td>OFF</td>
<td>A 8</td>
</tr>
<tr>
<td>XII Timer-linked unlocking setting</td>
<td></td>
<td>OFF</td>
<td>A 9</td>
</tr>
<tr>
<td>XIII Operation tone settings</td>
<td></td>
<td>ON</td>
<td>A A</td>
</tr>
</tbody>
</table>

### External output setting

The alarm or security system connected to the terminal of relay 2 will be activated when the “Lockout” or the forced entry is carried out.

**Lockout**: Refer to VIII below. “Forced entry: This function is linked with the open/close sensor (N.C.), which is connected to PB2 and C, and carried out when opening the door without activating this unit. (For example, entry in an improper manner, manual unlock, etc.)

- If there is a way to open the door without activating this unit, such as manual unlock, do not make the external output setting for the forced entry.

### Operation tone settings

- Set the tone heard when the keypad is being used to ON/OFF.

### Functions Table

<table>
<thead>
<tr>
<th>Function</th>
<th>Setting Items</th>
<th>Allowable setting range</th>
<th>Default value</th>
<th>Setting code</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Setting the code length</td>
<td>4, 5, or 6 digits</td>
<td>4 digits</td>
<td>A 3</td>
</tr>
<tr>
<td>II</td>
<td>Setting the master code</td>
<td>1 Valid keys: 0 - 9, A, B</td>
<td>1234</td>
<td>A 4</td>
</tr>
<tr>
<td>III</td>
<td>Setting the code for user group 1</td>
<td>Number of codes: 60</td>
<td>-</td>
<td>0 0 - 0 9</td>
</tr>
<tr>
<td>IV</td>
<td>Setting the code for user group 2</td>
<td>Number of codes: 40 Valid keys: 0 - 9, A, B</td>
<td>-</td>
<td>6 0 - 9 9</td>
</tr>
<tr>
<td>V</td>
<td>Setting the key illumination time</td>
<td>Illumination time: 10 to 99 seconds, or continually lit</td>
<td>10 Sec.</td>
<td>A 0</td>
</tr>
<tr>
<td>VI</td>
<td>Setting the relay 1 output time</td>
<td>Output time: 1 to 99 seconds, or latched</td>
<td>3 Sec.</td>
<td>A 1</td>
</tr>
<tr>
<td>VII</td>
<td>Setting the relay 2 output time</td>
<td>Output time: 1 to 99 seconds, or latched</td>
<td>3 Sec.</td>
<td>A 2</td>
</tr>
<tr>
<td>VIII</td>
<td>Reset Settings</td>
<td>Return all the settings to their default values.</td>
<td>-</td>
<td>A 5</td>
</tr>
<tr>
<td>IX</td>
<td>External output setting</td>
<td>OFF</td>
<td>OFF</td>
<td>A 6</td>
</tr>
<tr>
<td>X</td>
<td>Lockout</td>
<td>OFF</td>
<td>OFF</td>
<td>A 7</td>
</tr>
<tr>
<td>XI</td>
<td>Auto-relock (Anti-tailgate)</td>
<td>OFF</td>
<td>OFF</td>
<td>A 8</td>
</tr>
<tr>
<td>XII</td>
<td>Timer-linked unlocking setting</td>
<td>Linked relay: relay 1</td>
<td>Linked relay: relay 1 and 2</td>
<td>Linked relay: relay 1</td>
</tr>
</tbody>
</table>
The result of each operation is indicated by the lighting up of the LED indicators located just above the keys, and by the sounding of the buzzer.

Input the master code twice.
(Default: 1 2 3 4 1 2 3 4)

I Setting the code length
(Default: 4 digits)

Input the setting code.

A 3
Blinking
Blinking
Blinking
Blinking

Inputting of code length (ex.: 5 digits)
4, 5, or 6 digits
5

Inputting of new master code
(ex.: 4321)

Setting the code length
(Default: 4 digits)

II Setting the master code
(Default: 1234)

Input the setting code.

A 4
Blinking
Blinking
Blinking
Blinking

Inputting of user number (ex.: 01)

Inputting of user number (ex.: 60)

Setting the code

III Setting the code

Input the setting code.

0 1
Blinking
Blinking
Blinking
Blinking

Inputting of code (ex.: 1006)
* Numbers 0 - 9 and the letters A and B can be used

Inputting of code (ex.: 04B2)
* Numbers 0 - 9 and the letters A and B can be used

- When the (B) key is pressed, the green LED lights up, the buzzer beeps twice, and the system exits the setting mode.
If the (B) key is included in the user code and the master code, the system does not exit the setting mode.

- You can continue the setting up operation by entering an arbitrary setting code.

- The set code will be saved in memory, even if the code length is changed. However, codes of different lengths cannot be used.
- When the code length has been changed, the master code returns to the default value (if the number of digits in the code is 4, 5, or 6, the master code is 1234, 12345, or 123456 respectively).
- Please note that the shift to the setting mode can be performed during timer-linked unlocking. However, if "0000" is included in the master code, the door will be unlocked, and the shift to the setting mode will not be able to be performed.
- The same code cannot be set for both the user code and the master code (the previously set code has priority).
- Do not set simple codes, such as 1111.
- We recommend that you change the default master code.
- To make the set user code invalid, press 0000 (when 4 digits are used), 00000 (when 5 digits are used), or 000000 (when 6 digits are used). Code numbers which contain only "0" cannot be set as user codes.
- As the factory pre-setting master code is 1234, 1234 (when 4 digits are used), 12345 (when 5 digits are used), and 123456 (when 6 digits are used) cannot be set as user codes.
- Do not set simple codes, such as 1111.
- The same code cannot be set for both the user code and the master code. The previously set code has priority.
### Inputting of illumination time

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Default: 10 Sec.)</td>
<td>You can continue the setting up operation by entering an arbitrary setting code. When the key is pressed, the green LED lights up, the buzzer beeps twice, and the system exits the setting mode. (If the key is included in the user code and the master code, the system does not exit the setting mode.)</td>
</tr>
</tbody>
</table>

### Setting the relay output time

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Default: Ex.: 99 seconds)</td>
<td>You can continue the setting up operation by entering an arbitrary setting code. When the key is pressed, the green LED lights up, the buzzer beeps twice, and the system exits the setting mode. (If the key is included in the user code and the master code, the system does not exit the setting mode.)</td>
</tr>
</tbody>
</table>

### External output setting

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Default: OFF)</td>
<td>You can continue the setting up operation by entering an arbitrary setting code. When the key is pressed, the green LED lights up, the buzzer beeps twice, and the system exits the setting mode. (If the key is included in the user code and the master code, the system does not exit the setting mode.)</td>
</tr>
</tbody>
</table>
· When the relay 1 output time is set to latched output, the auto-relock function is disabled.
· When the auto-relock function is turned on, the unlock function of the request to exit/entry button of relay 2 is disabled.
OPERATION OF ACCESS CONTROL

* Also refer to the “INSTALLATION & OPERATION MANUAL” for the master station (JK-1MED or JK-1MD) connected to this unit regarding the operation of the video door station.

A. Unlocking of user code
When the registered user code has been input using the keypad (between 4 and 6 digits), the LED indicator (group 1: orange, group 2: green) lights up, the buzzer sounds, and the electric door strike is unlocked.

- Orange LED lights up (during relay1 operation)
- Green LED lights up (during relay2 operation)

ex.) group 1: 1006, group 2: 04B2

- The time interval during which the button must be pressed is approximately 10 seconds. If the time interval exceeds approximately 10 seconds, the input value will be cleared.
- If you make a mistake when inputting the user code, input the user code again.

B. Timer-linked unlocking
When the timer-linked unlocking function is active, the door can be unlocked by pressing the key during the set time, while the timer is linked.

- The key illumination lights up when the timer is activated by performing the setting.

C. Unlocking using the request to exit/entry button
When leaving the premises, you can activate the electric door strike by pressing the request to exit/entry button connected to the unit. Pressing request to exit/entry button 1 releases relay 1, and pressing request to exit/entry button 2 releases relay 2.

- When the door is unlocked using the request to exit/entry button, the LED will not light up and the buzzer will not sound.

TECHNICAL PRECAUTIONS

- Operating temperature: Between -10°C and 60°C (+14˚F to 140˚F)
- Cleaning: Clean the unit with a soft cloth dampened with a neutral household cleanser. Do not use any abrasive cleanser or cloths.
- The unit is weather resistant. However do not spray high pressure water on the unit directly. Excessive moisture may cause problems with the unit.

- When the “Lockout” function has been set, the release function is locked and the input operation is disabled for the specified time (10 - 99 seconds) if invalid codes are input a set number of times (10 - 99 times). (Reference: “Lockout”:) During this time, the key illumination will blink 4 times, the LED (orange) indicator will blink for the set deactivation time, and the buzzer will sound for approximately 3 seconds.

- Press and release the 7, 0, 8, and 9 keys simultaneously when the Access control does not work.
  - The LEDs (orange and green) will blink and the buzzer will sound, and then resetting will take place. (The settings do not return to their default values.)
- If resetting does not work, contact the service technician who installed the unit.
SPECIFICATIONS

General
- Dimensions:
  Door station: 295(H) × 144(W) × 8(D) (recess: 30) mm
  H 11-5/8” × W 5-3/4” x D 5/16”, recess 1-3/16”
  Flush mount back box: 263(H) × 114(W) × 45(D) mm
  H 10-3/8” x W 4-1/2” x D 1-3/4”
- Weight:
  Door station: approx. 890g (1.97 lbs)
  Flush mount back box: approx. 600g (1.3 lbs)

Video door station
- Power supply: Supplied from the master station
- Camera unit: Complementary metal oxide semiconductor (CMOS)
- Scanning lines: 525 lines
- Minimum subject illumination: 5 Lux at 50 cm (1' 6") distance

Access control keypad
- Power supply: 12 - 24V AC
  12 - 24V DC
- Power consumption: DC: Max. 70mA
  AC: Max. 100mA
- Number of relay circuits: 2
- Relay contact: N/O, N/C
- Relay contact capacity: 24V DC, 3A (resistive load)
  1A (inductive load)
  24V AC, 3A (resistive load)
  1A (inductive load)

WARRANTY

Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of two years after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty. This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the unit. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone. Aiphone will not be responsible for any costs incurred involving on site service calls. Aiphone will not provide compensation for any loss or damage incurred by the breakdown or malfunction of its products during use, or for any consequent inconvenience or losses that may result.

FCC
This device complies with Part 15 of the FCC Rules. Operation is subject 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.