

# KENWOOD

## KDC-P200

CD-PLAYER

### INSTRUCTION MANUAL

LECTEUR DE CD

### MODE D'EMPLOI

REPRODUCTOR DE DISCOS COMPACTOS

### MANUAL DE INSTRUCCIONES

LEITOR DE CD

### MANUAL DE INSTRUÇÕES

KENWOOD CORPORATION

**Take the time to read through this instruction manual.**

**Familiarity with installation and operation procedures will help you obtain the best performance from your new CD-player.**

**For your records**

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your KENWOOD dealer for information or service on the product.

Model KDC-P200 Serial number \_\_\_\_\_

© PRINTED IN JAPAN B64-1219-00 (K) (MC)

**COMPACT**  
**disc**  
DIGITAL AUDIO

## Contents

### Before use

Warning.....	2
Safety precautions .....	3
Handling Compact discs.....	5

### Basic operations

Buttons and Display .....	6
Playing CDs.....	6, 7
Switching Display for Discs.....	6, 7
Presetting Disc Names .....	6, 7

### Installation

Accessories.....	8
Installation Procedure.....	8
Connections .....	9
Installation (non-Japanese cars) .....	10
Removing the Unit.....	10
Installation (Japanese-cars).....	10

<b>Troubleshooting guide</b> .....	11
------------------------------------	----

<b>Specifications</b> .....	12
-----------------------------	----

## ▲ Warning

### ▲ CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION  
2967-3, ISHIKAWA-CHO,  
HACHIOJI-SHI  
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT  
CONFORMS TO DHHS REGULATIONS NO.21 CFR  
1040. 10, CHAPTER I, SUBCHAPTER J.

Location : Bottom Panel

### FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

## Safety precautions

### NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### NOTE

This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations.

### ▲WARNING

**To prevent injury or fire, take the following precautions:**

- Insert the unit all the way in until it is fully locked in place. Otherwise it may fall out of place when jolted.
- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
- Be careful not to drop the unit or subject it to strong shock.

The unit may break or crack because it contains glass parts.

### ▲CAUTION

**To prevent damage to the machine, take the following precautions:**

- Make sure to ground the unit to a negative 12V DC power supply.
- Do not open the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
- To prevent a short circuit when replacing a fuse, first disconnect the wiring harness.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.

## Safety precautions

### Cleaning the Unit

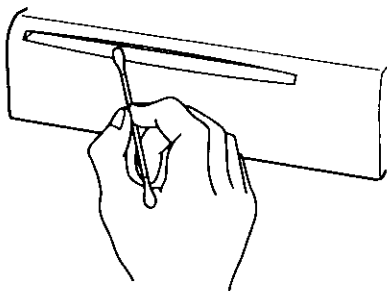
If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

#### **▲CAUTION**

Do not wipe the panel with a hard cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or cause the indicator letters to peel off.

### Cleaning the CD Slot

As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.



### Lens Fogging

Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, CDs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

### Heat protection

In warm climates, when vehicles are left standing in direct sunlight with the windows closed, the temperature inside can rise above 60°C. The unit's protection circuits will then display the message "HOLD" and prevent the player from operating. Just open the windows or turn on the air conditioning. As soon as the "HOLD" message disappears, the player will operate normally.

### IMPORTANT INFORMATION

- This unit is NOT designed to be connected directly to control units that are manufactured and sold before 1994. If used with such units, an optional CA-SD200 (sold separately) must be used.

#### **FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THIS UNIT AND CONTROL UNIT.**

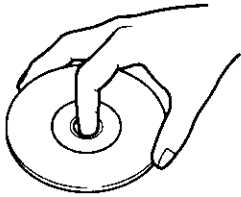
- The disc name preset function can register names of up to 10 discs using up to 12 characters for each disc name. The availability of this function as well as the number of discs which can be registered using this function and the number of usable characters may be variable depending on the control unit in use.

## Handling Compact discs

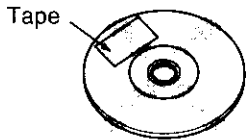
**Playing a CD that is dirty, scratched or warped can cause the sound to skip and the unit to operate incorrectly, resulting in worsened sound quality. Take the following precautions to prevent your CDs from getting scratched or damaged.**

### Handling CDs

- Do not touch the recorded side of the CD (the side opposite the label) when holding it.



- Do not stick tape on either side of the CD.

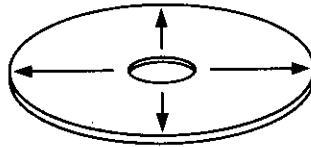


### Storing CDs

- Do not store CDs in areas exposed to direct sunlight (such as a car seat or the dashboard) or other hot places.
- Remove CDs from the unit when not listening to them for a while, and put them back in their cases. Do not pile up CDs that are removed from their cases or prop them against something.

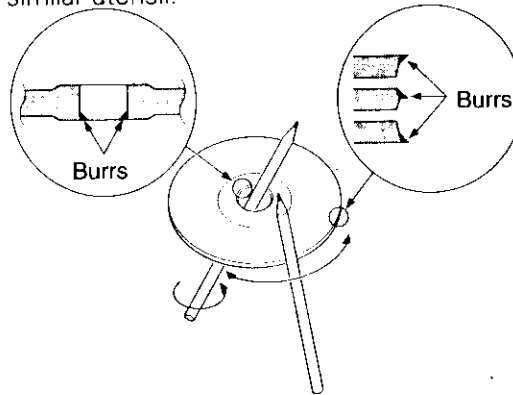
### Cleaning CDs

If a CD has gotten dirty, wipe it off gently using a commercially available cleaning cloth or a soft cotton cloth, starting from the center of the disc and moving outward. Do not clean CDs with conventional record cleaners, anti-static formulas, or chemicals such as paint thinner or benzene.



### Checking New CDs for Burrs

When playing a new CD for the first time, check that there are not any burrs stuck to the perimeter of the disc or in the central hole. CDs with burrs stuck on them may not load properly or may skip while playing. Remove burrs using a ballpoint pen or a similar utensil.



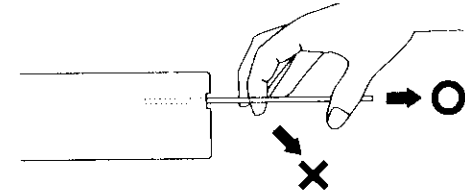
### Do Not Load CD Accessories

Do not use commercially available CD accessories that can be loaded into the CD

slot, such as stabilizers, protective sheets, or CD cleaning discs, since they can cause the unit to malfunction.

### Removing the CD

Only remove the CD from the machine in a horizontal direction, holding it flat. You may damage the surface of the CD if you try pulling it down as it ejects.



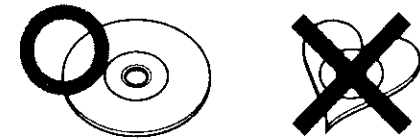
### CAUTION


### Do Not Load 3-in. CDs in the CD slot

If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

### Do Not Use Special Shape CDs

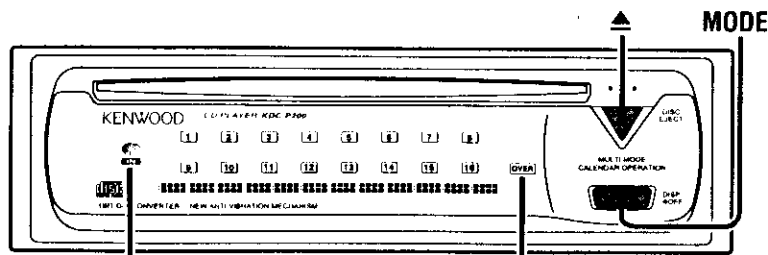
- Be sure to use round shape CDs only for this unit and do not use any special shape CDs. Use of special shape CDs may cause the unit to malfunction.



- Be sure to use CDs with disc mark  only for this unit.

## Basic operations

### Buttons and Display



CD-IN indicator

Lights when the CD has been loaded.

OVER indicator

Lights when the number of CD tracks exceeds 16.

Setting of the O-N switch will be required depending on the control unit that is to be connected. (See Page 9.)

The operations you perform and the resultant operation of the unit will differ depending on the setting of the O-N switch. Please see the appropriate description of operations for the "O" or "N" switch setting.

#### Operation for "N" Setting

### Playing CDs

#### Play:

Insert the disc with the label side of the CD facing upward.

Set the source mode of the control unit to the "CD" mode.

CD play will begin.

The various CD operations are performed with the control unit.

For information about the operation method, please see the control unit instruction manual.

#### NOTE

- Select "CD2" when the control unit is to be set for CD.
- Selection of the "CD" mode when a CD has not been loaded results in the display of "EJECT" or "E-01".

#### Eject:

A press of the ▲ button stops the CD play and ejects the CD.

#### CAUTION

- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 5 in. CDs. If you insert a 3 in. CD, it will get stuck inside and can cause the unit to malfunction.

#### NOTE

When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

#### Operation for "N" Setting

### Switching Display for Discs

The display appearing during CD play and during other source modes can be switched between the various modes.

#### Switching:

- 1 Set the display appearing during CD play and during other source modes to the mode to which switching is desired.
- 2 Each press of the MODE button advances the display mode one step in a 3-pattern sequence.

#### Blanking the Display:

Holding the MODE button down for 1 second or longer will blank the display.

A press of the MODE button while the display is blank will cause the display to light.

#### Operation for "N" Setting

### Presetting Disc Names

This unit permits up to 12 characters to be used for disc name presetting with as many as 10 discs.

The disc name will be displayed when the disc name has been preset to any of the connected units.

#### NOTE

Depending on the control unit, the number of characters and/or the number of discs that can be preset may differ, or operations may not be possible.

**Playing CDs****Play:**

Insert the disc with the label side of the CD facing upward.  
Set the source mode of the control unit to the "DISC" mode.  
CD play will begin.  
The various CD operations are performed with the control unit.  
For information about the operation method, please see the control unit instruction manual.

**NOTE**

- Depending on the unit that is connected, "DISC-1" or "DISC-2" will be displayed.
- Selection of the "DISC" mode when a CD has not been loaded results in the display of "EJECT" or "E-01".
- Setting the source mode of the control unit to a setting other than disc changer mode will cause the indicators and button illumination of this unit to be switched off, but the CD loading/eject operation will still be possible.
- To allow the control unit to recognize this unit as a disc changer, disc switching operations such as the following are not permitted: disc search and disc repeat, disc name preset play, etc.

**Eject:**

A press of the **▲** button stops the CD play and ejects the CD.

**▲CAUTION**

- Do not attempt to insert a CD into the slot if another one is already there.
- The unit can only play 5 in. CDs. If you insert a 3 in. CD, it will get stuck inside and can cause the unit to malfunction.

**NOTE**

When you load a CD and eject it right away, the next time you try to insert the CD may not load. In such a situation, take the CD out for a moment and then reinsert it.

**Switching Display for Discs**

**The display appearing during CD play can be switched.**

**Switching:**

Each press of the MODE button during CD play advances the display mode one step in a 3-pattern sequence.

**Blanking the Display:**

Holding the MODE button down for 1 second or longer will blank the display.

A press of the MODE button while the display is blank will cause the display to light.

**NOTE**

Setting the source mode of the control unit to a setting other than disc changer mode will cause the indicators and button illumination of this unit to be switched off.

**Presetting Disc Names**

**This unit permits up to 12 characters to be used for disc name presetting with as many as 10 discs.**

**The characters that can be entered are "A to Z, 0 to 9, [ ] / + \* = < >".**

**The disc name will be displayed when a CD that has been disc name preset to this unit is played by this unit.**

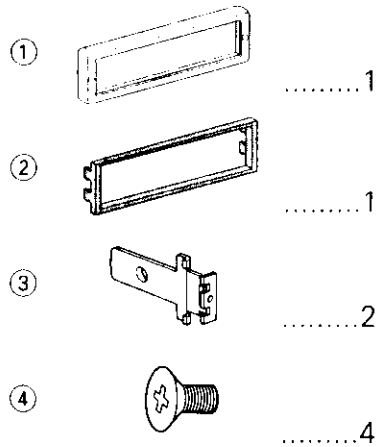
**NOTE**

Depending on the control unit, the number of characters and/or the number of discs that can be preset may differ, or operations may not be possible.

## Accessories

External view

..... Number of items

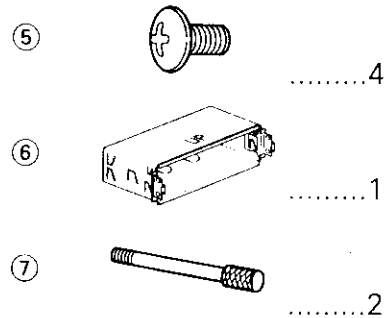


### ▲CAUTION

Do not use any accessories other than those provided with your unit. If you use other accessories, you may damage the unit.

External view

..... Number of items



## Installation Procedure

**The O-N switch should be set according to the control unit in use as well as to the connected models.**

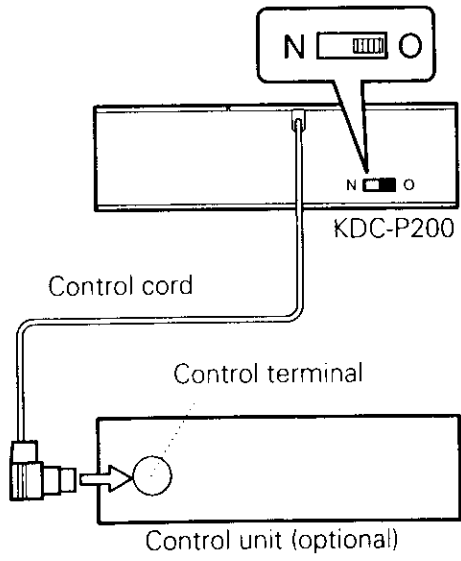
When the control unit is compatible with the "N"-operation, set the O-N switch to "N". When it is not compatible with the "N"-operation, set the O-N switch to "O" because the operation is not available. The initial setting of the switch is "O".

1. To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
2. Set the O-N switch of this unit to suit the control unit.
3. Connect the control cable to the control connector.
4. Install the unit in your car.
5. Reconnect the ⊖ battery.

### ▲CAUTION

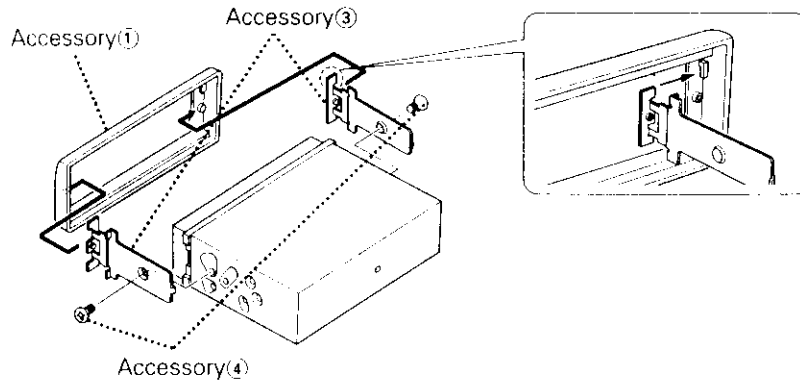
- Do not connect the changer control cable while the control unit is turned ON.
- Be sure to press the reset button after installation.
- Whether the control unit in use is compatible with the "N"-operation or not can be identified by referring to its instruction manual (description of the disc control mode, etc.).
- When this unit is connected with the KCA-S200 changer switching unit, set the O-N switch to "O".
- Do not let unconnected wires or terminals touch metal on the car or anything else conducting electricity. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.



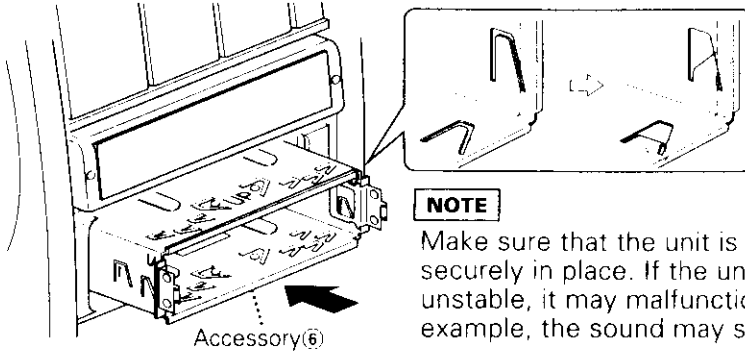


## Installation (non-Japanese cars)

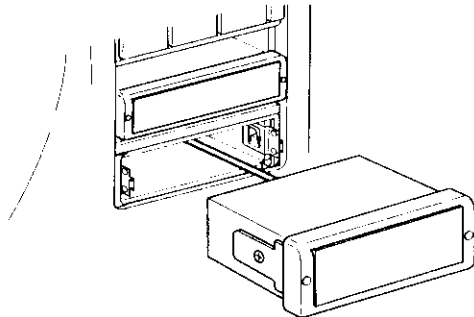
- 1 Attach the bracket and the panel frame to the unit.



- 2 Install the mounting sleeve in the console.

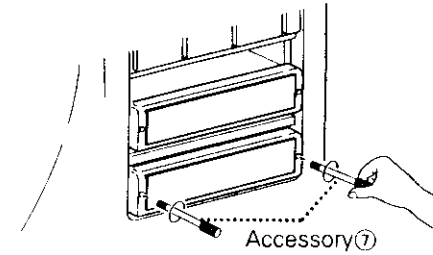


- 3 After wiring connection, install the unit to the vehicle.

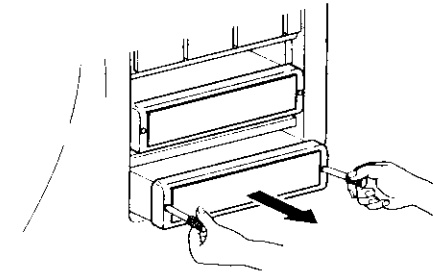


## Removing the Unit

- 1 Insert the two removal tools completely into the slots on each side, as shown.



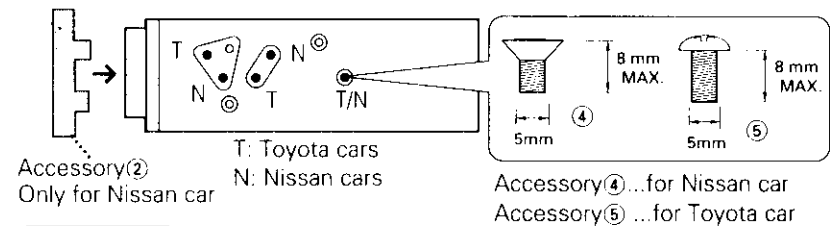
- 2 Pull out the unit.



## Installation (Japanese cars)

### ■ Installing in Japanese-Made Cars

Align the holes in the unit (two locations on each side) with the vehicle mounting bracket and secure the unit with the accessory screws.



### ▲ CAUTION

- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- Damage may occur if a screwdriver or similar tool is used with excessive force during the installations.

## Troubleshooting Guide

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the wires, replace the fuse with one with the same rating.
No sound can be heard, or the volume is low.	Attenuator is turned on.	Turn off Attenuator.
	The fader or balance settings are set all the way to one side.	Reset the fader or balance settings.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the control unit.
A CD ejects as soon as it is loaded.	The CD is upside-down.	Load the CD with the labeled side up.
	The CD is quite dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see p. 5).
The sound skips on a CD.	The CD is scratched or dirty.	Clean the CD, referring to the section on "Cleaning CDs" (see p. 5).
A track will not play.	Random play has been selected.	Turn off random play.
The disc control mode cannot be selected.	No cable has been connected to the disc changer input terminal on the unit.	Connect the cable to the disc changer input terminal on the unit.
The display shows that the changer is being played, but no sound can be heard.	The computer chip in the unit is not functioning normally.	Press the reset button on the control unit.

## Troubleshooting Guide

The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

E-01 EJECT	No CD in the unit. ⇒ Insert the CD.
E-04	The CD is quite dirty. The CD is upside-down. The CD is scratched a lot. ⇒ Clean the CD and load it correctly.
E-99	The unit is malfunctioning for some reason. ⇒ Press the reset button on the unit. If the "E- 99" code does not disappear, consult your nearest service center.
E-0d E-06 HOLD	The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation. ⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.

## Specifications

Specifications subject to change without notice.

### CD player section

Laser diode .....	GaAlAs ( $\lambda=780$ nm)
Digital filter (D/A) .....	8 Times Over Sampling
D/A Converter .....	1 Bit
Spindle speed .....	500 – 200 rpm (CLV)
Wow & Flutter .....	Below Measurable Limit
Frequency response ( $\pm 1$ dB) .....	10 Hz – 20 kHz
Total harmonic distortion (1 kHz) .....	0.01 %
Signal to Noise ratio .....	93 dB (1 kHz)
Dynamic range .....	93 dB
Channel separation .....	85 dB

### General

Operating voltage .....	14.4 V (11 – 16 V allowable)
Current consumption .....	0.8 A at Rated power
Installation size (W x H x D) .....	178 x 50 x 155 mm 7 x 1-15/16 x 6-1/8 in.
Weight .....	1.3 kg (2.8 Lbs)