

Exhibit D

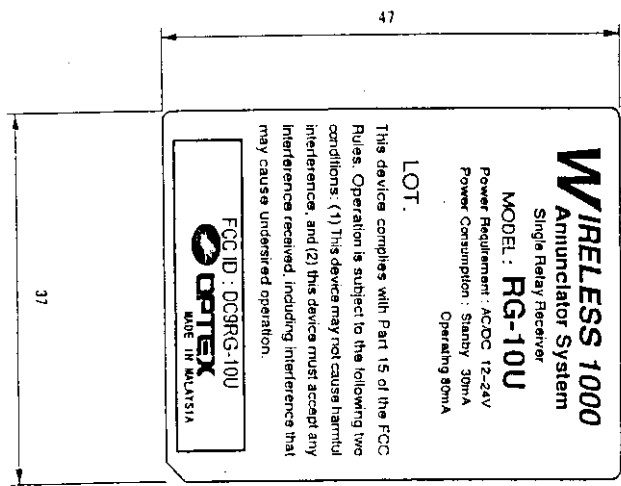
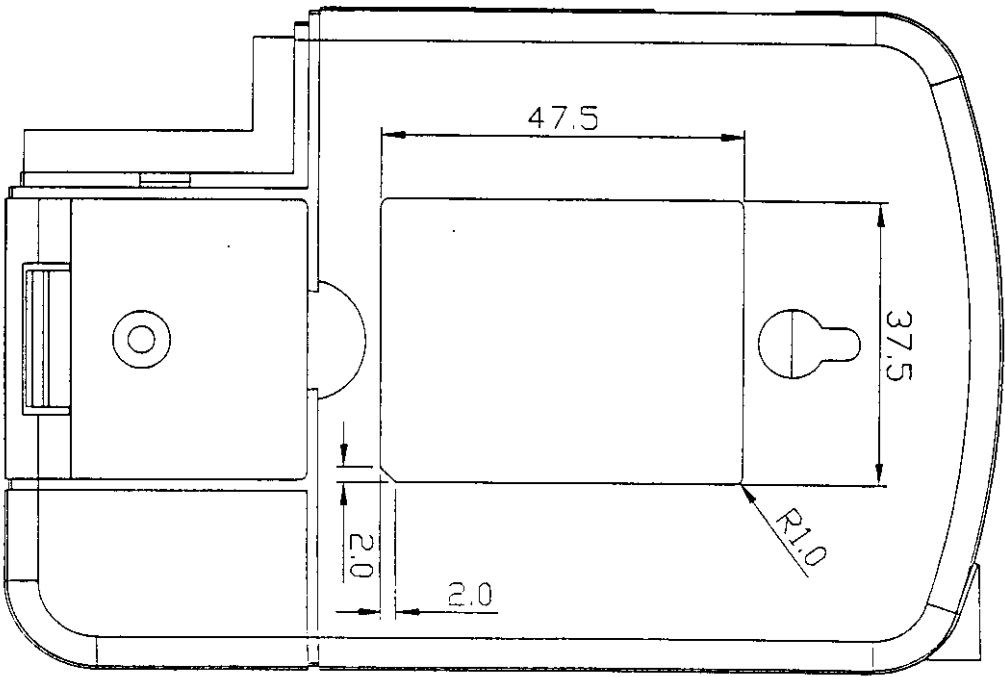
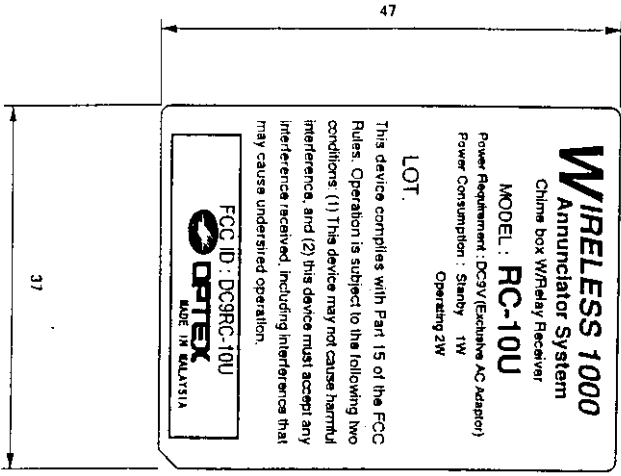
Equipment ID. Label

OPTEX CO., LTD.

FCC ID.:DC9RG-10U

Single Relay Receiver

1. A label in the next page will be affixed to the device.



Ken-24-9-98


DRAWING NAME		 IQT	MODEL	RC\RG-10U
- 8	±0.05		DRAWING NO.	LABEL
8 - 25	±0.08		FILE NAME	PROJECT\VP\EX\VS\RCRG
25 - 80	±0.12		DESIGN BY	33-07-98
80 - 250	±0.25		DATE	22-07-98
250 -	±0.5	TOLERANCE	APPROVAL	
MATERIAL	REVISION	SCALE	UNITS	

Exhibit E

User's Manual

OPTEX CO., LTD.

FCC ID.:DC9RG-10U

Single Relay Receiver

WIRELESS 1000 Annunciator System

RG-10U SINGLE RELAY RECEIVER

This product is only compatible with other devices of Wireless 1000 series.

RG-10U MANUAL

Please read this manual carefully before installation.



- Compatible with TD-10U (In/Outdoor Sensor Transmitter) & TS-10U (Hand-held Transmitter)
- Operates on 12-24VDC AC/DC
- Low battery indicator
- Form C relay switching capacity: 50VAC (max.)
- Contact output (selectable output duration)
- Programmable output mode
- 2 button functional switches
- Zone (location) identifiable by 3 LEDs (plus continue mode)

CAUTION

Please be careful of followings.

1. Outdoor Use

This product is not suitable for outdoor use.

2. High Temperature, High Humidity & Dirty Fumes

Do not install this product where it may be exposed to steam or oily smoke.

3. Other Electric Devices

Use this product at least 3ft (1m) away from following devices: TV, radio, personal computer, microwave oven, refrigerator, any device that has an electric motor (This may cause a functional error.)

4. Maximum transmission range may decrease under following conditions.

- In cases where there is a steel door, steel reinforced concrete or other metal obstructions between the transmitter and the receiver.
- Installing either the transmitter or the receiver on a metal surface.
- Places near a strong radio source such as a broadcast station or high power lines.

5. Impact/Shock

Do not drop this product or give a strong impact/shock.

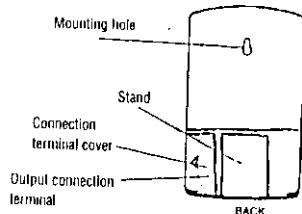
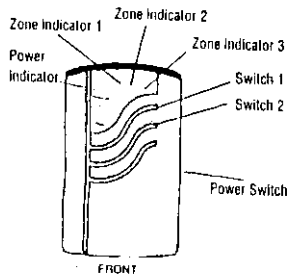
6. Tampering

Do not tamper or perform modification to this product.

7. Cleaning

Use a soft cloth with neutral detergent when cleaning. (Paint remover or benzene may ruin the surface.)

PART IDENTIFICATION



Mounting screw

MAXIMUM TRANSMISSION RANGE

RG-10U & TD-10U	1000ft. (open field, line of sight)
RG-10U & TS-10U	600ft. (open field, line of sight)

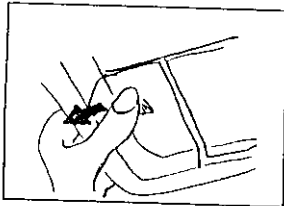
Above measurements were obtained over flat level ground without obstruction. The receiver and the transmitter were mounted 5ft (1.5m) above ground. The transmission range may be shortened by obstacles (natural or man-made) in the transmission path or other environmental factors. Installation should be performed while confirming the actual transmission. Please use the recommendation below as a reference.

	TD-10U	TS-10U
Stucco/Plaster construction:	Up to 150ft.	Up to 90ft.
Reinforced concrete construction:	Up to 100ft.	Up to 60ft.

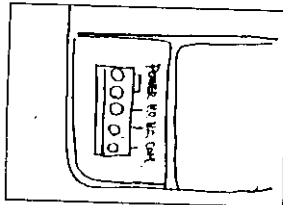
TERMINAL CONNECTION

Power Connection

Use a power source in the following range; 12-24V AC/DC



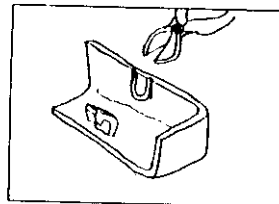
Remove the connection terminal cover



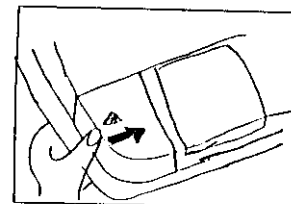
Power terminal is marked "POWER." Use the terminal marked "COM-N.O." for N.O. devices. Use the terminal marked "COM-N.C." for N.C. devices.

Connection Of Output Terminal

Any device that has a zero voltage input terminal can be connected to this product.



Remove knockouts according to wiring needs.

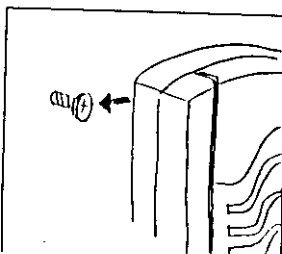


Close the connection terminal cover. The product may be damaged if the terminals come into contact with metal objects.

Note:

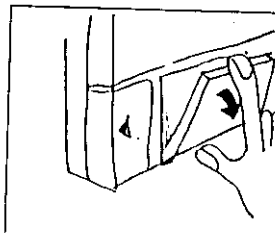
- The receiver automatically goes into registration mode when it is powered on the first time. Please refer to "Registration."
- In some situations, you may want to register transmitters and adjust terminal output timing before connecting warning devices to output terminal(s).

INSTALLATION



Mounting On A Wall

Use the mounting screw on a wall. Leave some length of the screw out for the mounting hole of the receiver.



Desk Top

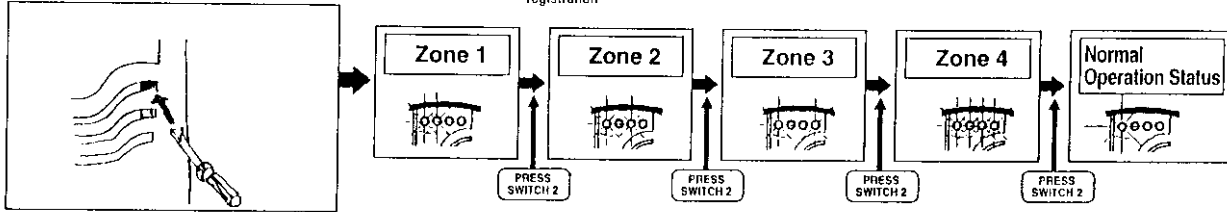
Pull out the stand on the back of the receiver and place it on any flat surface.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

REGISTRATION

Transmitters must be registered with the receiver before use. Each "zone" can register 1 transmitter for a maximum of 4 transmitters. Unlike the other zones, zone 4 (continue zone) stays active once triggered until the switch 2 is pressed to deactivate. For zone 1 through 3, a zone indicator corresponding to each zone lights up during reception. For zone 4, however, the reception is shown by all 3 zone indicators flashing rapidly.

Registration Procedure



Note:

- Return to normal operation mode before use.
- Verify that each transmitter has been registered with the receiver by triggering transmitters.
- Each zone can only register 1 transmitter and a transmitter cannot be registered on multiple zones.
- Make sure that only 1 transmitter is triggered when registering a transmitter to a particular zone. If 2 transmitters are activated during registration, the transmitter that was activated last will be registered and old data will be overwritten.
- Turning off the devices will not erase registration data.

Activating Registration Mode

- If you have not registered any transmitter already, the receiver will go into registration mode automatically at the time of power up.
- Continue pressing the switch 1 until the power indicator starts to flash.

Registration

- Zone 1 is ready to accept signal from a transmitter for registration

- Press switch 2 in order to shift through different zones and get to the desired zone identified by flashing zone indicators.
- Activate the transmitter you wish to register. The zone indicators will stop flashing and remains continuously lit.
- Pressing the switch 4 times will return the receiver to normal operation mode.

Erasing Registration

- Continue pressing the switch 1 until the power indicator starts to flash.
- Press switch 2 until zone indicators corresponding to the transmitter you wish to erase are lit.
- Press the switch 1 and corresponding zone indicators will start to flash.
- Press the switch 2 until the power indicator starts flashing and then remains lit.

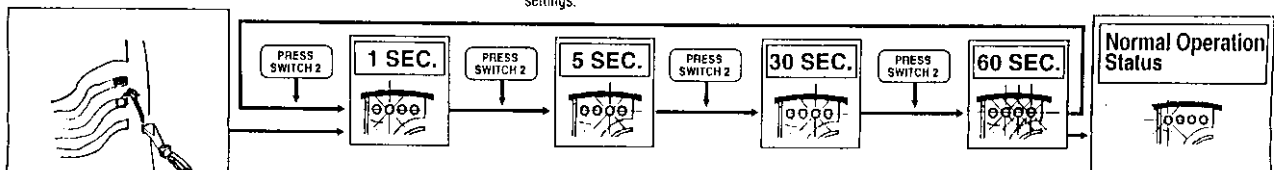
ADJUSTING THE TERMINAL OUTPUT DURATION

Output timing for zone 1-3 cannot be set individually. Once the receiver is activated through zone 4, it remains activated until switch 2 is pressed. The output duration is set at 1 sec. at the time of shipping.

Output Duration Mode

- Pressing the switch 1 twice within 2 seconds will activate output duration mode. The reception indicators light up in accordance with current setting.
- The output duration can be set to either 1, 5, 30 or 60 seconds. Pressing switch 2 will toggle between different settings.

- The receiver automatically returns to normal operation mode 5 seconds later once desired output duration is selected. Only the power indicator remains lit when the receiver returns to normal operation mode.



TROUBLE SHOOTING

1. The system is not operating.

Check the transmitter.

- Does the LED indicator light up when you trigger the transmitter? → Check to see if the battery is inserted correctly.
- If the battery is old, replace it with a new one.
- Is the LED indicator of the transmitter flashing? → The battery is old. Replace the battery.

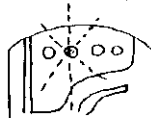
Check the receiver.

- Is the power indicator of the receiver lit? → Is the receiver on? Check the wiring and connection.
- Have all the transmitters been registered correctly? → Reregister the detector correctly. The system will not operate if you do not register.
- The reception indicator of the receiver is on, but nothing happens. → Check to see whether the terminal is properly connected to other devices.
- Is there anything blocking the transmission? → Relocate the receiver and/or the detector. Metal objects can shorten the effective transmission range.
- Are zone indicators flickering slowly? → The battery of the transmitter shown by the zone indicators has low battery. Replace it.

2. The system is not operating correctly.

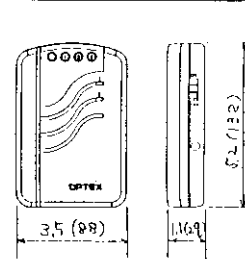
- The receiver does not accept registration. → Verify that the register is not already registered in a different zone. If it is, erase registration and reregister.
- The receiver gets reception in a wrong zone. → Erase registration in the zone the receiver responds and reregister in the correct zone.
- The receiver does not respond to some of the transmitters. → You may have registered transmitters in a same zone. Reregister the transmitter that got no response to an empty zone.
- Certain zone seems to malfunction. → It is probably the transmitter's problem. Check the transmitter registered in that zone.

LOW BATTERY INDICATION



Certain zone indicator(s) will start to flicker slowly whenever the transmitter registered in that zone has low battery. You cannot activate registration mode, even if it's less than 2 years old. You cannot activate registration mode, output duration mode or volume adjustment mode if the low battery indication is on, until the switch 2 is pressed to stop the flickering. You do not need to reregister the transmitter after replacing the battery.

DIMENSIONS



Unit: Inches (mm)

SPECIFICATIONS

Model	RG-10U
Description	Wireless Receiver
Power Source	12-24V AC/DC Standby: 30mA Operating: 80mA
Relay output	3 Zones & 1 Continue Zone (Selectable) Form "C" (1C) 1A/50VA
Output Timer	Selectable: OFF/1/5/30/60sec
Status Indicator	Power Indicator: Green Zone Indicator: Red x 3
Frequency	418MHz
Operating Temperature	15°F-104°F (-10°C-+40°C)
Installation Location	Indoor
Weight	
Accessories	Mounting Screw x 1

Specifications may change without notice

LIMITED TWO-YEAR WARRANTY

- (1) This Wireless Receiver is warranted to the original consumer purchaser to be free from defects in material and workmanship under normal use for two (2) years from the date of purchase. If the product proves to be defective, return it postage prepaid with a copy of your dated sales receipt for repairs or replacement at no charge.
- (2) THIS WARRANTY IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.
- (3) This warranty is invalid under following conditions:
 - Mechanical or electrical modification(s) are performed to the product or it is otherwise altered manually.
 - Product is already been serviced at place(s) other than the manufacturer.
 - It is determined that product malfunction has resulted from improper use or from an accident.
 - A copy of dated sales receipt has not been submitted together with the product to be serviced.



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