

# Main Entrance Camera (Common Method)



Model No. DRC-481L(C)/RF DRC-500L(C)/RF



- -Feature-
- 8-wire Common Method (Interphone)
- 4-wire Common Method (Videophone)
- RF/ID Feature (Optional)
- Surveillance Monitor Support

#### **COMMAX Co., Ltd.**

Thank you for purchasing our COMMAX product.

Please carefully read this User® Guide (in particular, precautions for safety) before using the product and follow the instructions to use your productexactly. The company is not responsible for any safety accidents caused in abnormal operation of the product.

### **Class B device**

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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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 se paration 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.

#### [CAUTION]

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

#### [FCC compliance Information]

This device complies with part 15 of FCC Rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received. Including interference that may cause undesired operation.

#### [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.

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### Safety Warning & Caution

Please follow the things described below in order to prevent any danger or property damage.





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### 1. Greetings

- \* Thank you for purchasing a Commax product.
- \* This product is a high tech Main Entrance interphone that supports electronic and remote (Optional) keys and finger print recognition (Optional) features. Please read this manual carefully.

### 2. Before Getting Started

- \* Using 8-wire common wiring method between the Main Entrance interphone and the Guardhouse interphone, this system supports 3 communication circuits, and each communication circuit is a Balance Type that supports 2 wires.
- \* Using 4-wire common wiring method between the Main Entrance interphone and the Household interphone, this system supports telephone and video connections. Only use coaxial cables for video connection.
- \* The short and cut of wiring can cause a malfunction. Be sure to check wiring before installation.
- \* It is recommended that each Main Entrance interphone is installed and its connection be checked from the Guardhouse and the Household(s).
- \* Maximum of 2048 Remote Cardkeys are supported. (When not connected to a computer)
- \* Three consecutive entries of wrong Management PIN, Building PIN, or Household PIN will automatically page the Guardhouse.

Three consecutive attempts at unlocking doors with an unregistered Remote Cardkey will also automatically page the Guardhouse.

#### % Remarks

### 3. Overview

#### 3-1. Feature

#### DRC-481L





| No | Description               | No | Description                                      | No | Description                |
|----|---------------------------|----|--|----|----------------------------|
| 1  | Display Window (FND)      | 10 | Guard Button                                     | 17 | Household Interphone (1)   |
| 2  | RF/ID Receiver (Optional) | 11 | Cancel Button                                    | 18 | Household Interphone (2)   |
| 3  | Speaker                   | 12 | Reset Button                                     | 19 | Video Out                  |
| 4  | Mic                       | 13 | Selection Switches<br>No. 1: Computer Connection |    | Power: DC12V/1A (RF-1A)    |
| 5  | Key Pad                   |    |  |    | Door Release Terminal      |
| 6  | Call Button               |    | (Finger Print Recognition)                       | 22 | Receiver Volume Control    |
| 7  | CCD Camera                | 14 | Infrared Sensor Terminal                         | 23 | Security Switch Connection |
| 8  | Program Button            | 15 | Guardhouse Interphone Terminal                   |    |                            |
| 9  | Electronic Key Button     | 16 | Computer Connection Terminal                     |    |                            |

#### DRC-500L





| No | Description               | No | Description                                |    | Description                     |
|----|---------------------------|----|--|----|---------------------------------|
| 1  | Speaker                   | 10 | Night Lamp                                 | 19 | Security Switch Connection      |
| 2  | Key Pad                   | 11 | Display Window (FND)                       | 20 | Power: DC15V/1A(CS-15C)         |
| 3  | Program Button            | 12 | CCD Camera                                 | 21 | Reset Button                    |
| 4  | Electronic Key Button     | 13 | Computer Connection Termina                | 22 | Selection Switches              |
| 5  | Guard Button              | 14 | Guardhouse Interphone Termina              |    | No. 1: Computer Connection      |
| 6  | Cancel Button             | 15 | Household Interphone (1)                   |    | No. 2: Electronic Key Selection |
| 7  | Call Button               | 16 | Household Interphone (2)                   | 23 | Receiver Volume Control         |
| 8  | Mic                       | 17 | Video Out(Surveillance Monitor Connection) | 24 | Door Release Terminal           |
| 9  | RF/ID Receiver (Optional) | 18 | Infrared Sensor Terminal                   |    |                                 |

#### 3-2. Basic Function

#### \* RF/ID Receiver (Optional)

To open the door using a Remote Cardkey, place the key here. The word 'oPEn' will display and the door will be released.



Audio Guide "Door Opened"

\* Call Button (E: Enter)

This button is used to page households.



Press the Page button after entering the Household Number.

\* Program Button (P: Program )

This button is used to Program.





\* Electronic Key Button (K: Key)

This button is used to release the door by using PIN.

(Available only when the Electronic Key option has been set as OFF. When it is set as ON, Finger Print Recognition is enabled)

| 12  | 36     |
|-----|--------|
| 4 5 | 6      |
| 78  | ] @ կի |
|     | ♪ ×    |
|     |        |

\* Guardhouse Page Button (G: Guard)

This button is used to page the Guardhouse if the Guardhouse interphone has been installed.

| 12  | 3   |     |
|-----|-----|-----|
| 4 5 | 6   | -w) |
| 78  | 9   | P   |
| 04  | } } | ۹m  |
|     |     | 6   |



#### \* Cancel Button (X: Cancel)

This button is used to cancel the current operation.



Audio Guide "Cancelled"

#### \* Selection Switches

No. 1: Computer Connection Switch (Used for connection with a computer)

 $\rightarrow$  Connects a computer using network exclusive to DRC-481L.

OFF : To connect to a computer via the RS-485 Port with Finger Print Recognition in use.

ON : To connect to a computer via an internal network without Finger Print Recognition in



No. 2: Electronic Key Selection (Finger Print Recognition Switch) OFF: Electronic Key is enabled.

(Finger Print Recognition is disabled)

ON: Electronic Key is disabled.

(Finger Print Recognition is enabled)



#### \* Reset Button

This button is used to reset the Guardhouse PIN or the Management PIN.



If you cannot remember the number of a management office, push the reset button both 12 and 21.

#### \* Receiver Volume Control

Controls the volume in the receiver from LOW to HIGH.



Must Know Before Use!

1) Accessing All Features with the Program Button

-When an error has been made as indicated by continuous beeps, please cancel and start again from the beginning.

Start again from the beginning

- 2) Forgotten PIN
  - 2-1. Household PIN

Use the Household PIN verification feature of 6-1 to retrieve the PIN. (Please inquire to the Guardhouse or the Management Office)

2-2. Building PIN

Reenter using the Management PIN.

- 2-3. Management PIN Press the Reset button. Both the Building and the Management Building PINs are reset to default.
- 3) 8-5 All Remote Cardkey Deletion is to be used only when the unit is being initially installed.
- 4) Configuration Mode Indications

Configured features are displayed on the Display Window when the Main Entrance interphone is not in use.



### 4. PIN Types

#### 4-1. Management PIN

- This PIN is for use by the person in charge of the Management Office.
- By default, this PIN is set as 4321.
- For convenience, hereafter management PIN.

#### 4-2. Building PIN

- This is the common PIN for each main entrance.
- By default, this PIN is set as 1234.
- For convenience, hereafter building PIN.

#### 4-2. Household PIN

- Each household has its own PIN.
- By default, this PIN is set as 1234.
- For convenience, hereafter household PIN.



### 5. Setting PIN

#### 5-1. Management PIN Setup

- \* P Old Management PIN E 0 E New PIN -E
- \* Management PIN must be 4-digits long.
- \* 0000 will not be recognized as a valid PIN.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the old PIN 4321.
- ③ Press the Call button (E).
- 4 Press the Program Number 0.
- (5) Press the Call button (E). ( 'PASS' will blink)
- 6 Enter the new PIN.
- ⑦ Press the Call button (E).
- (8) Management PIN has been updated.

#### 5-2. Building PIN Setup

- \* P Old Building PIN E 1 E New PIN E
- \* Building PIN must be 4-digits long.
- \* 0000 will not be recognized as a valid PIN.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the old PIN 1234.
- ③ Press the Call button (E).
- ④ Press the Program Number 1..
- (5) Press the Call button (E). ( 'PASS' will blink)
- $\textcircled{\sc 6}$  Enter the new PIN.
- ⑦ Press the Call button (E).
- (8) Building PIN has been updated

5-3. Household PIN Setup

- \* K Program Number E Household Number E Old Household PIN E New PIN P
- \* Household PIN must be 4-digits long.
- \* 0000 will not be recognized as a valid PIN.
- \* This method of Household PIN change may vary depending on household interphone types. (Types that support PIN changing from the household interphone)



- ① Press the Electronic Key button (K).
- 2 Press the Program Number 20.
- 3 Press the Call button (E). ( 'hono' will blink)
- (4) Enter the Household Number.
- (5) Press the Call button (E). ( 'PASS' will blink)
- <sup>(6)</sup> Enter the old Household PIN.
- ⑦ Press the Call button (E). ( 'PASS' will blink)
- (8) Enter the new Household PIN
- Press the Program button (P). Household PIN has been updated.

### 6.Household PIN Confirmation

#### 6-1. Household PIN Confirmation

\* P - Building (Management) PIN - E - Program Number - E - Household Number - E



- ① Press the Program button. ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press the Program Number (16).
- (5) Press the Call button (E). ( 'hono' will blink)
- (6) Enter the Household Number. (The Household Number will be indicated)
- ⑦ Press the Call button (E). (The Household PIN will be indicated)

### 7. Configuring Building and Serial Numbers in the Main Entrance Interphone

- \* This feature must be performed for it automatically configures Building and Serial numbers when Households or the Guardhouse is paged from the Main Entrance.
- \* Up to 99 Main Entrance interphones can be installed per each building.
- 7-1. Configuring Building Number from the Main Entrance Interphone
  - \* P Building (Management) PIN E 2 E Building Number E



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press the Program Number (2).
- (5) Press the Call button (E). (The Building Number previously entered will be indicated)
- <sup>(6)</sup> Enter the new Building Number.
- ⑦ Press the Call button.

Building Number has been updated.

7-2. Configuring Serial Number from the Main Entrance Interphone

\* P - Building (Management) PIN - E - 3 - E - Serial Number - E



- ① Press the Program button (P). ( 'Prog' will appear)
- (2) Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Press the Program Number (3)  $\,$  .
- (5) Press the Call button (E). (The Serial Number previously entered will be indicated)
- 6 Enter the new Serial Number.
- Press the Call button Serial Number has been updated.

### 8. Using Remote Cardkeys (RF/ID) - Optional

#### 8-1. Testing Remote Cardkeys

- \* P Building (Management) PIN E 9 E Card Test X (Cancel)
- \* This feature is used to test Remote Cardkeys.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Press number 9 (Remote Cardkey Test).
- (5) Press the Call button. ( 'Cdtt' will blink)
- (6) Place the Remote Cardkey to the RF/ID Receptor, and the Card Number will appear on the Display Window (FND).
- ⑦ Press the Cancel button (X) to end Remote Cardkey testing.

#### 8-2. Remote Cardkey Registration

\* P - Building (Management) PIN - E - 10 - E - Card Registration - X (Cancel)



#### <Note>

CdSv: Newly Registered Card (Successful registration is indicated by a beep) CdAI: Previously Registered Card (Rejected registration is indicated by two beeps) \* Up to 2048 Remote Cardkeys can be registered. (Without a computer connected) \* Please record registered Remote Cardkey's serial number for future reference.

#### 8-3. Individual Deletion of Remote Cardkeys

\* P - Building (Management) PIN - E - 12 - E - Card Deletion - X (Cancel)



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Press number 12 (Individual Remote Cardkey Deletion).
- (5) Press the Call button (E). ( 'CddE' will blink)
- (6) Enter the 5-digit Card Number and press the Call button (E).(Check on the right side of the RF/ID Card)Or place the Card on top of the RF/ID Receiver.
- ⑦ Press the Cancel button (X) to terminate the feature

#### 8-4. Confirming Remote Cardkey Registration

\* P - Building (Management) PIN - E - 13 - E - Card Confirmation - X (Cancel)



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Enter number 13 (Remote Cardkey Confirmation).
- (5) Press the Call button (E). ( 'CddE' will blink)
- (6) Enter the 5-digit Card Number and press the Call button (E).(Check the right side of the RF/ID Card)Or place the Card on top of the RF/ID Receiver.
- <sup>(6)</sup> Press the Cancel button (X) to terminate the feature.

#### 8-5. All Remote Cardkey deletion

- \* P Building (Management) PIN E 11 E E
- \* Refrain from deleting all Remote Cardkeys, except for during installation.



- ① Press the Program button (P). ( 'Prog' will appear)
- (2) Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Enter number 11 (All Remote Cardkey Delete Number).
- (5) Press the Call button (E). ( 'dEL' will blink)
- <sup>(6)</sup> Press the Call button (E) again.
  - The number displayed on screen will change.
- $\bigcirc$  Press the Cancel button (X) to terminate the feature.

#### 8-6. Remote Cardkey Capacity Expansion

- \* P Building (Management) PIN E 19 E 0 E: Maximum 2048 Cards can be registered.
- \* P Building (Management) PIN E 10 E 1 E: Unlimited number of Cards can be registered. (This feature is only available when connected to a computer)



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Enter number 19 (Remote Cardkey Capacity Change).
- (5) Press the Call button (E). (The current capacity is displayed)
- (6) Select the Card capacity.
  - (0: Maximum 2048)
  - (1: Unlimited)
- ⑦ Press the Call button (E). (Updated)

### 9. Surveillance Monitor Configuration

- \* P Building (Management) PIN E 4 E 0 E: Surveillance disabled.
- \* P Building (Management) PIN E 4 E 1 E: Surveillance enabled.
- \* This feature provides entrance surveillance of the Main Entrance to a separate monitor by using the Camera from the Main Entrance Interphone.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press number 4 (Surveillance Monitor Configuration).
- (5) Press the Call button (E). (Previous selection is displayed)
- 6 Choose a mode.
  - (0: Surveillance monitor cannot be installed)
  - (1: Surveillance monitor can be installed)
- ⑦ Press the Call button (E). (Modification updated)

### 10. Door Release Time Setup

\* P - Building (Management) PIN - E - 5 - E - Door Release Time - E

\* This feature adjusts the door release time.



- ① Press the Program button (P). ( 'Prog' will appear)
- (2) Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press number 5 (Door Release Time Setup).
- (5) Press the Call button (E). (Previous selection is displayed)
- (6) Choose a time. (From 1 to 25 seconds) Use numbers from 1 to 25.
- 1 Press the Call button (E). (Modification updated)

### 11. Page Tone Selection

- \* P Building (Management) PIN E 7 E 0 E: Melody Tone
- \* P Building (Management) PIN E 7 E 1 E: Bell (Ringer)
- \* This feature sets the Recall tone heard when Households or the Guardhouse is paged from the Main Entrance.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- (4) Press number 7 (Page Signal Selection).
- (5) Press the Call button (E). (Previous selection is displayed)
- 6 Select a page signal.
  - \* 0: Melody Tone
  - \* 1: Bell (Ringer)
- ⑦ Press the Call button (E). (Page signal updated)

### **12. Wiring Method Selection**

- \* P Building (Management) PIN E 6 E 4 E: 4-wire Common Method (12-wire common)
- \* P Building (Management) PIN E 6 E 8 E: 8-wire Common Method
- \* Video images from the Main Entrance cannot be viewed in the Household when the 8-wire Common Method has been selected.



- ① Press the Program button (P). ( 'Prog' will appear)
- (2) Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press number 6 (Wiring Method Selection).
- (5) Press the Call button (E). (Previous selection is displayed)
- (6) Select a wiring method.
  - \* 4: 4-wire Common Method (12-wire common)
  - \* 8: 8-wire Common Method
- ⑦ Press the Call button (E). (Wiring method updated)

### 13. Video Out Impedance Adjustment

- \* P Building (Management) PIN E 8 E 0 E: Short Distance
- \* P Building (Management) PIN E 8 E 1 E: Long Distance
- \* By default, the unit is set for short distance. Do not change if possible.



- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Call button (E).
- ④ Press number 8 (Impedance Setup).
- (5) Press the Call button. (The previous selection is displayed)
- (6) Select the impedance.
  - \* 0 : Short Distance
  - \* 1 : Long Distance
- ⑦ Press the Call button (E). (Impedance selection updated)

### 14. Household Interphone Diagnosis

\* P - Building (Management) PIN - E - 14 - E - Household Number - E

\* This feature checks for the Household Interphone's operating conditions.



\* After checking the currently displayed household, it will show automatically a next household. Push the call button to check a next household.

8 You can check the whole households in the same way. After checkup, push the cancel button.

- ① Press the Program button (P). ( 'Prog' will appear)
- (2) Enter the Building (Management) PIN.
- ③ Press the Page button (E).
- ④ Enter number 14 (Household Interphone Diagnosis).
- (5) Press the Page button (E). ( 'Subt' will appear)
- (6) Enter the Household Number, then press the Program button.
- The Household's status is shown on the display window (FND).
  (Please refer to the following indications)
- To check other Households, repeat steps 6 and 7.Press the Cancel button (X) to terminate the feature.

#### \* Household Status

| nor_ | Normal Status - The Household is in standby.<br>(Normal will also be indicated if the Household is in<br>conversation with the Entrance or on the phone)                              |  |
|------|---|--|
| 6853 | Busy Status - The Household is on the phone.<br>(Busy status is only shown when in conversation with the<br>Guardhouse)   |  |
| outd | Away Status - Residents are currently away from their<br>Household.   |  |
| Enng | Emergency Status - There is an emergency situation in the<br>Household.<br>(Emergency, Warning 1 (Fire), Warning 2 (Gas), Burglary, and<br>etc are indicated as emergency situations) |  |
| Eror | Error Status - Connection could not be established with the Household. (Please check the Household Videophone)  |  |
|      |   |  |

### 15. Household Number Registration

- \* P Building (Management) PIN E 15 E Guardhouse page from the Household Household Number P Serial Numbe E
- \* This feature is used to register Household Numbers through the Main Entrance Interphone when the Guardhouse Interphone has not been installed. If the Guardhouse Interphone is available, please use it to register.



(9) Follow the same procedure to enter other Households. Press the Cancel button (X) to end.

#### <Note>

\* What is Multi Sub Number?

Refers to individual numbers for each videophone in the Household when there is more than one.

- \* The Master's Serial Number is 0.
- \* Sub Serial Numbers are from 1 to 9.
- \* <u>Maximum 10</u> videophones can be installed in <u>a household</u>, and their <u>serial</u> numbers must not overlap.
- \* A Master must exist among numerous videophones. If only one videophone exists, that unit shall be registered as the Master.
- \* When ADT-481 is installed in the Household, that unit will not be registered as the Master.

- ① Press the Program button (P). ( 'Prog' will appear)
- 2 Enter the Building (Management) PIN.
- ③ Press the Page button (E).
- (4) Enter number 15 (Household Number Registration).
- (5) Press the Page button (E). ( 'SUbA' will appear)
- (6) Lift up the receiver from the Household and press the Guard button to page the Main Entrance Interphone, where the Household Number will be displayed. Then, the displayed number must be changed for it is the default number from the factory.
- 1 Enter the Household number and press the Program button.
- (8) Enter the Multi Sub number and press the Page button (E).
- (9) The Main Entrance Interphone's Display Window will convert to the (5) status.
- 1 To enter different Households, repeat steps 6 and 7.
- (1) Press the Cancel button (X) to end.

### 16. Paging the Household



### 17. Paging the Guardhouse



### 18. Door Release Using the Household PIN

#### \* Household Number - K - Household PIN - E



### 19. Door Release Using the Building (Management) PIN



\* G - K - Building (Management) PIN - E

### 20. Appendix (Various Program Summaries)

#### \* Various PIN Programs

- 1. P Old Management PIN E 0 E New PIN- E: Management PIN Change
- 2. P- Old Building PIN E -1 E New PIN E: Building PIN Change
- 3. K 20 E Household Number E Old Household PIN E New PIN P: Household PIN Change
- 4. P Building (Management) PIN E 16 E Household Number E: Household PIN Confirmation

#### \* Configuring Building and Serial Numbers from the Main Entrance Interphone

- 1. P Building (Management) PIN E 2 E Building Number E: Building Number Setup
- 2. P Building (Management) PIN E 3 E Serial Number E: Serial Number Setup

#### \* Remote Cardkey Programs

- 1. P Building (Management) PIN E 9 E: Remote Cardkey Test
- 2. P Building (Management) PIN E 10 E: Remote Cardkey Registration
- 3. P Building (Management) PIN E 11 E: All Remote Cardkey Delete (Household PIN Delete)
- 4. P Building (Management) PIN E 12 E: Individual Cardkey Delete
- 5. P Building (Management) PIN E 13 E: Remote Cardkey Confirmation
- 6. P Building (Management) PIN E 19 E: Expanding Remote Cardkey Capacity

#### \* Door Release Using Various PINs

1.GP - KP - Building (Management) PINP - E: Door release using Building (Management) PIN 2.Household NumberP - KP - Household PINP - E: Door release using Household PIN

#### \* Other Feature Setup Methods

- 1.P Building (Management) PIN E 4 E: Surveillance Monitor Setup
- 2.P Building (Management) PIN E 5 E: Door Release Time Setup
- 3.P Building (Management) PIN E 6 E: Wiring Method Selection
- 4.P Building (Management) PIN E 7 E: Paging Tone Selection
- 5.P Building (Management) PIN E 8 E: Video Out Impedance Selection
- 6.P Building (Management) PIN E 14 E: Household Interphone Diagnosis
- 7.P Building (Management) PIN E 15 E: Household Number Registration
- 8. P Building (Management) PIN E 17 -

### 21. Wiring Method

### 1) Guardhouse Interphone (CDS-481L)





#### 2) Main Entrance Interphone (DRC-481L)



#### \* Security

1 DC 12V used.

(2) Designed to be used by connecting to the lead switch. When not in use, please connect two wires.

③ When the Main Entrance is opened by force, the Guardhouse and the computer are notified.

#### (DRC-500L)



- \* Security
  - 1) Use DC 15V.
  - 2 It is designed to use a reed switch. When it is not used, connect two lines.
  - ③ When the main entrance door is forced to open, it will be notified to the guardhouse and a computer.



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#### 5) Household Videophone(CAV-50FSD)



#### 6) Household Videophone(CAV-50FD)



#### 7) Household Videophone(CAV-501D)



#### 8) Household Videophone(CAV-482S)



#### 9) TV-Phone Interface Adaptor(ADT-481)



#### 10) Security Interface Adaptor(ADT-482)



#### 11) System Map



#### CAV-501D DRC-4CA соммах CAV-50FSD DRC-4CA 0000 00000 U $\left[ \begin{array}{c} 0 \\ 0 \\ \end{array} \right]$ Bk: Black Ŕ . Br: Brown R: Red Or: Orange Zummmm Y: Yellow B G: Green ð H B: Blue Pu: Purple G: Gray W: White DRC-4BA CH-481SL DRC-4BA APV-481FT 000 [0](B) (R) (R) 0 555 555 õ Ē M DRC-48IL c 000 1 120 460 789 0 • X G

#### 12) Wiring Method for Communications with the Guardhouse



#### 13) Main Entrance Interphone Wiring



- 3. If the Guardhouse Interphone (CDS-481L) has been installed, Number 7 (Data) and 8 (GND) connected to it must be connected to the Household Interphone.
- 4. Use coaxial cables (3C2V or 5C2V) for Video Out.

#### 14) Wiring ADT-481 and CKV-60T



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#### Multysub Number:0 Multysub Number: 1 Multysub Number:2 Multysub Number:9 ----(Sub2) (Sub9) CKV-60T (MASTER) (Sub1) Household CH-481SL CH-481SL APV-481FT ADT-481 Camera (DRC-4CA) Bk Br R Or Y G B IN IN Bk BR OY GB - IN BROTYGR - GND - B+ - GND - B+ - GND - B+ ŏ . 🗌 Loby Talk ☐ Loby Talk □ Loby Talk õ - VD IN - VD OUT - VD IN - VD OUT - VD IN - VD OUT õ 8 8 Multvsub Number:0 Multvsub Number:1 Multvsub Number:2 ---- Multvsub Number:9 CKV-60T (MASTER) (Sub1) (Sub2) (Sub9) Household Camera CAV-501D CAV-50FSD CAV-50FD ADT-481 (DRC-4CA) ര് - Bk - IN - Br - GND - R - B+ Or - Loby Talk - Y - VD IN - G - VD IN - B - VD OUT # Bk − IN O Br − GND O R − B+ O Or ⊥ Loby Talk O G − VD IN B − VD OUT − VD OUT 10000000 Rk - IN 00000 - GND - B+ BrROrYGR -ŏ ☐ Loby Talk - VD ÍN - VD OUT -ŏ \_[ δΠ \_ ® A DRC-500L DRC-481L CDS-481L

#### 16) Installing Numerous Videophones in a Household

#### **\*NOTE**

- 1. (A) : Guardhouse Line (8-wire Common)
  - (B) : Main Entrance Line (4-wire Common)
  - ©: Sub Extension (6-wire Common)
- 2. When registering the Multi Sub number, ADT-481 will not be recognized as the Master and should be installed last as shown above.
- 3. Various types of sensors should be connected to the Master, and sensors of the remaining Subs should be connected with the + wire and the sensor line: if the two lines are not connected, the Away mode will not function.

#### 17) CCTV and Sensor Wiring



**※ NOTE** 

1. Monitor 1: To view only when being used by the Main Entrance Interphone (DRC-481L).

2. Monitor 2: Continuous surveillance of the Main Entrance.

#### 18) Wiring DRC-481L and CDS-481PC



#### 19) Wiring CDS-481PC and Multi Port



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## 22. Specifications

| Installation Method    | Flush Mounted   |        |                             |              |  |
|------------------------|---|--------|-----------------------------|--------------|--|
| Specfications Model    | DRC-481L  |        | DRC-500L                    |              |  |
| Transmission System    | Household Videophone (4-wire Common), Guardhouse Interphone (8-wire Commo |        |                             |              |  |
| Rated Voltage          | DC12V 1A(RF-1A) DC15V/1A(CS-15C)  |        |                             | S-15C)       |  |
| Power Consumption      | Standby: 200mA, Max: 4  | 450mA  | DC:Standby:400mA, Max:500mA |              |  |
| Communication Method   | Hands Free (One Way)  |        |                             |              |  |
| Imaging Device         | B/W C.C.D 1/3• , COLOR C.C.D. 1/4•  |        |                             |              |  |
| Scanning Frequency     | 15,735KHz/60Hz, 15,625KHz/50Hz,   |        |                             |              |  |
| Camera Angle           | Horizontal: 68• Vertical: 55•   |        |                             |              |  |
| Minimum Illumination   | 0.1Lux(300mm in front of camera)  |        |                             |              |  |
| Communication Distance | 3C2V Coaxial  | 5C2V ( | Coaxial                     | 7C2V Coaxial |  |
|                        | 200m  | 30     | Om                          | 400m         |  |
| Detection Range        | RF ID 60mm  |        |                             |              |  |
| Lighting               | B/W: Infrared LED× 4, COLOR: Lighting necessary at night                  |        |                             |              |  |
| Ambient Temperature    | -10℃•~40℃•  |        |                             |              |  |
| Dimensions             | 230(W)× 260(H)× 72(D)mm 245(W)× 275(H)× 63(D)mm                           |        |                             |              |  |

### MEMO



## **COMMAX Co., Ltd.**

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