

Wide Color Video Doorphone

Model No. CDV-50/50D

Use and Care Guide

Before operating the unit, please read this manual thoroughly and retain it for future reference.



 **commax Co., Ltd.**



Introduction

The model number is located on the bottom and record the serial number in the space provided below. Refer to these numbers whenever you call upon your Commax dealer regarding this product.

Model No. _____

Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

WARNING : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE



This symbol is intended to alert the user to the presence of uninsulated **"dangerous voltage"** within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO QUALIFIED SERVICE PERSONNEL

CAUTION : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO QUALIFIED SERVICE PERSONNEL

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Important Safeguards

1. **Read Instructions** - All safety and operating instructions should be read before the unit is operated.
 2. **Retain Instruction** - The safety and operating instructions should be retained for future reference.
 3. **Heed Warnings** - All warnings on the equipment and in the operating instructions should be adhered to.
 4. **Follow Instruction** - All operating and use instructions should be followed.
 5. **Ventilation** - Slots and openings in the cabinet are provided for ventilation and to protect it from overheating.
 6. **Power Sources** - This equipment should be operated only from the type of power source indicated on the marking label.
 7. **Grounding** - This product is equipped with a polarized alternating - current line plug. This plug will fit into the power outlet only oneway. This is a safety feature.
 8. **Power Cord Protection** - Power- supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them; pay particular attention to cords at plugs, convenience receptacles and the point where cords exit from the equipment.
 9. **Overloading** - Do not overload power outlets and extension cords as this can result in a risk of fire or electric shock.
 10. **Damage Requiring Service** - Unplug this equipment from the power source and refer servicing to qualified service personnel under the following conditions:
 - a. when the power supply cord or plug is damaged;
 - b. if liquid has been spilled or objects have fallen into the unit.;
 - c. if the equipment has been exposed to rain or water;
 - d. if the equipment has been dropped or otherwise damaged;
 - e. when the equipment exhibits a distinct change in performance - this indicates a need for service.
 11. **Water and Moisture** - Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
 12. **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance.
- Note** : Do not place this product directly on wood or simulated woods surfaces as theses surfaces are easily damaged.
13. **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

Important Safeguards

- 14. Servicing** - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 15 Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part.
- 16 Safety Check** - Upon completion of service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 17 Power Line** - The system should not be located near overhead power lines or other electric light or power circuits, or where it can fall into power lines or circuits.
- 18 Attachment** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 19 Outdoor Cable Protection** - All outdoor connections should be protected from moisture. Internal heating can draw moisture or condensation into the covering of the unit and affect its operation.
- 20 Lightning** - For added protection for this product before a lightning storm, or when it is left unattached and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Be sure it is properly grounded, as defined above. If you live in an area heavily prone to lightning storms, it is recommended that you invest in power-line, telephone-line, RF cable and Actuator/Polarization surge protectors to protect your system from possible damage.
- Note to system installer:** This reminder is provided to call the system installer's attention that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
- 21 Protective Attachment Plug** - The product is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.

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Preparation

On Safety

- Operate the unit on free volt AC(100~240V), 50/60Hz
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- One blade of the plug (for 120V Version, only) is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

On Installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Keep the unit and glass away from equipment with strong magnets, such as a microwave oven or large loudspeakers.
- Do not place any heavy object on the unit.

On Operation

- When the unit is not in use, turn off the power to conserve energy and to extend its useful life.

On Cleaning

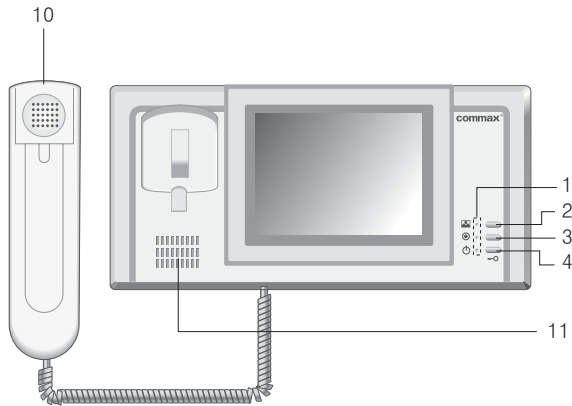
- Clean the cabinet away, panel and controls with a dry soft cloth, or a soft cloth lightly moistened with a mild detergent solution.
- Do not use any type of solvent, such as alcohol or benzene, which might damage the finish.

On Repacking

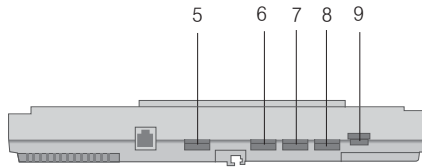
Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

Location And Function of Control (For Monitor)

Front View



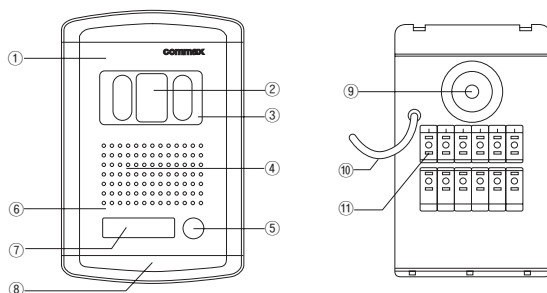
Side View



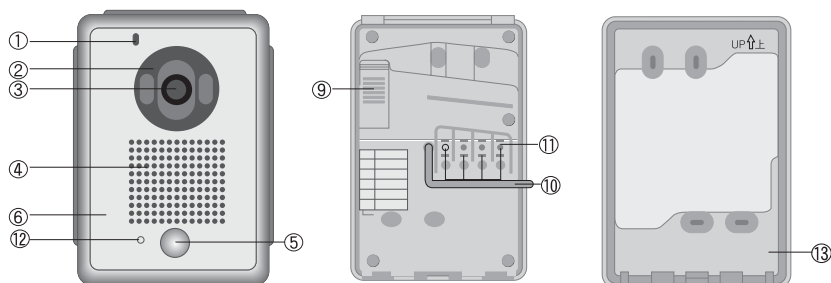
- ① L.E.D Indicator
- ② Monitoring Button
- ③ Interphone Button
- ④ Release(Open/Close) Button
- ⑤ VOLUME Adjust Controller
- ⑥ BRIGHTNESS Adjust Controller
- ⑦ CONTRAST Adjust Controller
- ⑧ COLOR Adjust Controller
- ⑨ POWER OFF/ON(Stand By)
- ⑩ Handset
- ⑪ Speaker

Location And Function of Control (For Camera)

DRC-4CA



DRC-40CS



① Microphone

When Turn on the [CALL] button on the panel, and conversation with residents.

② C.C.D. Camera Lens

Built-in Color 1/4" C.C.D lens

③ Camera Protection Window

Prevent the scratch from the other matters.

④ Speaker

Aural from the resident.

⑤ Calling Button

Turn on the [CALL] button if desired calling.

⑥ Front Panel

No surface on corroisoin material.

⑦ Name Card

Indicated in resident address.

⑧ Screw Hole

Use the assembly panel. Note:Before connection, contact to technical engineer.

⑨ Angular Field Of View For Camera

Adjust the angular field of the camera for manually.

⑩ Connection Wire Release

⑪ Connection Terminal

Use the connection with your residents.

⑫ Operation Indication Lamp



⑬ Bracket for Wall mount

Note: Do not make any wire connections these terminals or level the cover off while the unit is plugged into an DC power supplier.



Operation

Communication Functions

1. Communicate with the Video Doorphone

- ① Turn on the [CALL]  button on the camera of the door
- ② Calling sound from the monitor and LED indicator flicker
- ③ Pick up the handset, communicate with visitor on the door.
(Monitor screen operating about 90 seconds and then picture is off automatically).
- ④ Your visitor with communicated off. Lift down the handset that door LED indicator off.
- ⑤ Turn on the [DOOR]  button your desire any times, pick up the handset communicate with the door.

2. Communicate with the Interphone(Optional)

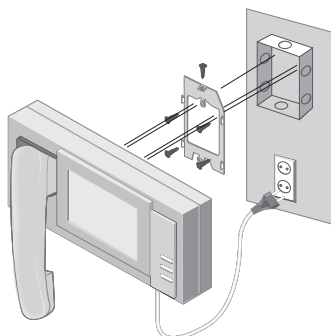
- ① Pick up the handset, Turn on the [CALL]  button with extention interphone (DP-4VR). Sound from the interphone. Now responding from interphone, communicate with your desire.
- ② During busy lines with monitor and interphone, turn on the [CALL]  button on the door indicator L.E.D. flicker you can see outside on the door about 90 seconds and communicate with monitor, interphone and door.
- ③ Calling from the door, responding and communicate with the interphone which operating to rectifier.
- ④ Busy lines with the monitor and door, pick up the interphone which can communicate with the monitor or door

You can signal to the monitor when turn on the [CALL]  button.

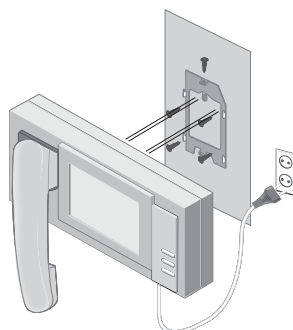
Notice When the monitor picture is off, do not operation with door release which expandable interphone.

How To Installation(For Monitor)

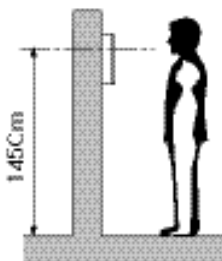
For Flush Box Installation



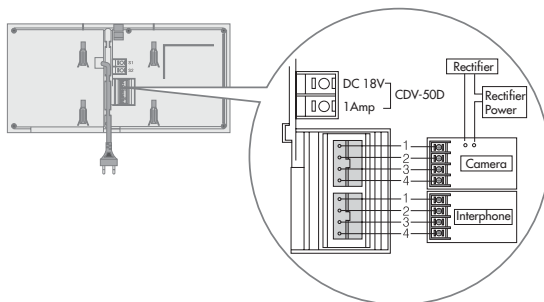
For Semi-surface on the wall Installation



Monitor Standard Installation



Main Unit Installation



Notice : 1. 4wires and polarity

2. For connect 1, 2, 3, and 4 that monitor and camera as order.

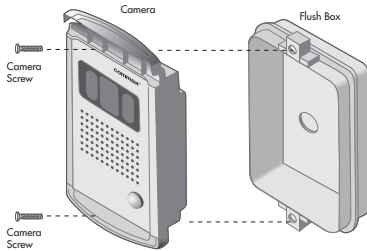
Caution : 1. Use the coaxial cable for electric schcok

2. Do not short lines outside and inside lines

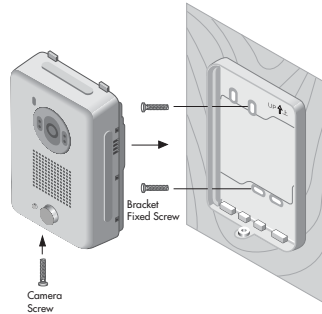
3. Connect that monitor and camera, monitor power ON/OFF level is OFF level

How To Installation (For Camera)

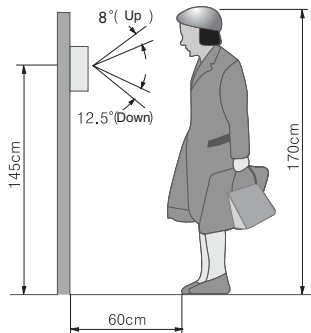
For Flush Box Installation



For Semi-surface on the wall Installation



Camera Standard Installation(For Height/Up/Down/Horizontal Angular)



Notice : If you have questions connection the wires for installation following up, Contact to seller or qualified service personnel before not operating.

Procaution before Installation

- **Do not Aim The Camera At The Sun**

Do not aim the camerr at the sun or point it at the sun even if you are not shooting.

- **Do not Shoot Intense Light**

Framing intense light such as a spotlight may cause bloom or smear.

- **Never Touch Internal Parts**

Do not touch the internal parts of the camera other than that parts specified. Otherwise, the camera may malfunction.

- **Check The Ambient Temperature And Humidity**

Avoid using the camera where the temperature is hotter or colder than specified. Otherwise, the quality of images may deteriorate or internal parts may be affected. Special care is required to use the camera at high temperature and humidity.

Part List

Monitor	1 unit
Hand set	1 unit
Bracket for Monitor	1 unit
Connect Connector(4P)	2unit
Fixed screw for monitor	1 unit
Fixed screw for monitor bracket	2unit
Manual	1 unit

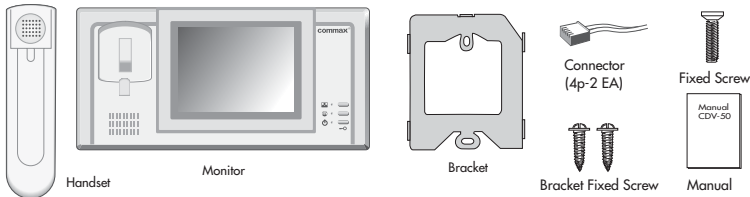
For DRC-4CA

Camera	1 unit
Camera Flush Box	1 unit
Camera Screw	2unit
Hexagon Lench	1 unit

For DRC-40CS

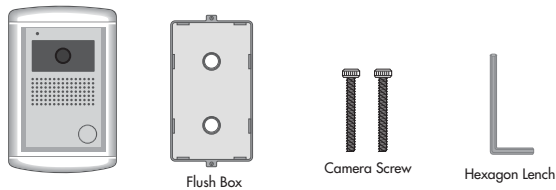
Camera	1 unit
Camera Bracket	1 unit
Camera Fixed Screw	1 unit
Fixed Screw for Camera	2unit

Notice:Checking accessories as the below pictures



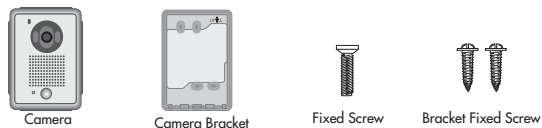
A Type Camera

(DRC-4CA)



B Type Camera

(DRC-40CS)



Troubleshooting

	Symptom	Possible Cause And Corrections
Power	The unit does not turn on.	<ul style="list-style-type: none"> - The power cord is not disconnected. - Make sure that check your AC outlet for power line - Make sure that unit is plugged in.
Power But No Picture Good Sound	Power of no picture, good sound	<ul style="list-style-type: none"> - Make sure that power switch on the front the monitor ON. - Make sure that there is nothing blocking the lens on the camera.
No Audio or Video	Poor of Audio and Video	<ul style="list-style-type: none"> - Make sure that check the camera cabinet is plugged into the monitor and the camera.
Good Sound, Poor Picture		<ul style="list-style-type: none"> - Make sure that adjust COLOR, CONT, BRT on the monitor.
Snow And Noise Only		<ul style="list-style-type: none"> - Make sure that check the camera cable to connection. - Make sure that adjustable the camera lens and others.
Dotted Lines Or Strips		<ul style="list-style-type: none"> - This often caused by local interference (e.g cars, neon signs, hair dryers etc).
No Audio		<ul style="list-style-type: none"> - Make sure that check volume control is set an appropriate level.
Squealing Noise At The Monitor On A Camera		<ul style="list-style-type: none"> - Make sure that camera is too close to the monitor and the volume control is set too high.

Specifications

Monitor for CDV-50

Power Source	AC 100 ~ 240V,
Picture Tube	5" Color TFT-LCD
Power Consumption	
Operating	23 Watts
Normal	5.5 Watts
Transmitted Method	Door : 4 wires (Polarity)
Communication Method	Synchronous
Calling Sound	Commax Chime
Video Receiving Time	90±20 Seconds
Communication Distance	
For 0.65mm Cable	50m
Operating Temperature	-10° C~ +40° C
Operating Humidity	Less than 90%
Dimensions(W/H/D)mm	283/137/50
Weight (kg)	2.5

Monitor for CDV-50D

Voltage Adaptability	AC 220V/50Hz 17V/1A
Power Consumption	Maximum 1.5W Stand by 15W

Camera for DRC-4CA/40CS

Mounting Type	Flush Mount Type Mount (DRC-4CS)
Wiring	4 Wires (Polarity)
Power Source	DC 13V (Power from monitor)
Communication Method	Synchronous Communication
Pick-Up Device	1/4" Color CCD Camera
Scanning Frequency	Horizontal :15.75KHz Vertical : 60Hz
Angular Field of Lens	Horizontal : 68° Vertical : 55°
Angular Field of Adjust	Up : 12.5° Down : 12.5°
Minimum Illumination	3.0 Lux
Operating Temperature	-10° C ~+40° C
Operating Humidity	Less than 90%
Dimensions(W/H/D)mm	123/185/45 (DRC-4CA) 98/142/37 (DRC-40CS)

Notice:Camera available - optional

External design, Features, functions and specifications can be changed without any prior notice., for promoting the quality of the product.



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