



# WIDE COLOR VIDEO DOOR PHONE

Model No. CDV-50/50D







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# COMMAX Co.,Ltd.

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# COMMAX Co.,Ltd.

- Thank you for purchasing COMMAX products.
- Please carefully read this User's Guide (in particular, precautions for safety)
  before using a product and follow instructions to use a product exactly.
- The company is not responsible for any safety accidents caused by abnormal operation of the product.

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



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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. WARNING : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

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

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

**CAUTION** : TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER-MOUNTING OF THE OPTIONAL INTER-FACE BOARD TO QUALIFIED SERVICE PERSONNEL

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#### Important Safeguards

- 1. Read Instructions All safety and 10. Damage Requiring Service Unplug this 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 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.

- 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 objectes 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
- cabinet are provided for ventilation and to 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 require, 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 overheat 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 is properly grounded, as defined above. If you live in an area heavily prone to lightning stroms, it is recommended that you invest in powerline, 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.

product 21 **Protective Attachment Plug** - The product is equipped with an attachment plug having overload protection. This is 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	$\cdot$ Operate the unit on free volt AC(100~240V), 50/60Hz		
	<ul> <li>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.</li> </ul>		
	• 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	<ul> <li>Allow adequate air circulation to prevent internal heat build- up. Do not place the unit on surfaces (rugs, blankets, etc) or near materials (curtains, drapreris) that may block the ventilation slots.</li> </ul>		
	Do not install the unit near heat sources such as radiators or air ducts or in a place subejct to direct sunlight, excessive dust, mechanical vibration or shock.		
	<ul> <li>Keep the unit and glass away from equipment with strong magnets, such as a microwave oven or large loudspeakers.</li> <li>Do not place any heavy object on the unit.</li> </ul>		
On Operation	<ul> <li>When the unit is not in use, turn off the power to conserve energy and to extend its useful life.</li> </ul>		
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.		
	<ul> <li>Do not use any type of solvent, such as alcohol or benzine, which might damage the finish.</li> </ul>		
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)



# Location And Function of Control (For Camera)

DRC-4CA













#### **1** Microphone

Press the[CALL] button on the panel to communicate with the visitor.

#### C.C.D. Camera Lens

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

- Camera Protection Window Prevent the scratching of the lens
- ④ Speaker → Transmits audio

#### G Calling Button

Press the call button to initiate conversation

#### G Front Panel

Made of anodized aluminum material to prevent corrosion

#### Name Card Slot

Indicates the resident's name (and/or address)

#### Screw Hole

#### Viewing angle Adjustment

The viewing angle of the camera lens can be adjusted manually using the adjustment knob on the back of the camera

#### ① Connection Wire Release

#### Connection Terminal

Used to connect wires to the individual households

#### Operation Indication Lamp

- Bracket for Wall mounting
- Note: Do not make any wire connections to these terminals or take the cover off while the unit is plugged into a DC power source

## Operation

#### **Communication Functions**

#### 1. Communication between the VDP and the outdoor camera

- 1 A visitor presses the [CALL] . on the door camera.
- A chime will be heard and the LED light will flicher on the VDP.
- S Pick the handset to communicate with the visitor at the door.
  - (The monitor will turn off automatically after 90 seconds.)
- 4 Hang up to end the conversation.
- Press the [DOOR] button to release the door during conversation.

#### 2. Communication between the Video Door Phone and interphone(or camera)

1 Pick up the handset and press the [CALL] • button on the VDP.

A chime will be heard from the interphone. When someone picks up the interphone handset, communication can begin.

- When the [CALL] button is pressed on the camera while communication between the VDP and interphone is taking place, the entrance button LED light will flicker and a chime will be heard on the VDP and interphone handset. Also, the visitor's image will be visible for about 90 seconds during which time the VDP, interphone and camera can communicate with one another
- Direct communication between the camera and interphone is possible. if so equipped, the door release function can be operated.
- When the interphone handset is lifted while there is communication between the VDP and camera, communication between the VDP and interphone can begin and a singnal will be sent to the monitor.

# Installation(For Monitor)

#### For Flush Box Installation

#### For Semi-surface on the wall Installation



#### Notice : 1. 4wires and polarity

- 2. Connect wires1, 2, 3, 4 from the camera to the monitor in the same order
- 3. The power must be turned off before connecting the monitor and camera.
- Caution : 1. Use the coaxial cable to prevent 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

# 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 operating.

#### Procaution before Installation

Do not Aim The Camera At The Sun

Do not aim the camera 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	1unit
Hand set	1unit
Bracket for Monitor	1unit
Connect Connector(4P)	2unit
Fixed screw for monitor	
Fixed screw for monitor bracket	2unit
Manual	1unit

# For DRC-4CA

Camera	1unit
Camera Flush Box	1unit
Camera Screw	2unit
Hexagon Lench	1unit
For DRC-40CS	
Camera	1unit
Camera Bracket	1unit
Camera Fixed Screw	1unit
Fixed Screw for Camera	2unit



#### A Type Camera (DRC-4CA)









B Type Camera (DRC-40CS)











Camera Bracket

Bracket Fixed Screw

# Troubleshooting

	Symptom	Possible Cause And Corrections	
Power	The unit does not turn on.	<ul> <li>The power cord is not disconnected.</li> <li>Check the AC outlet for power</li> </ul>	
Power But No Picture Good Sound	No picture, good sound	- Make sure that there is nothing blocking the lens of the camera.	
No Audio or Video	No Audio and Video	- Make sure that check the camera cabinet is plugged into the monitor and camera.	
Good Sound, Poor Picture		- Make sure that COLOR, CONT, BRT is adjusted property	
Dotted Lines Or Strips		- Check for excessive local interference.(e.g cars, neon signs, hair dryers etc).	
No Audio		- Make sure that the volume control is set to an audible level.	

# Specifications

### Monitor for CDV-50

#### Camera for DRC-4CA/40CS

Power Source	AC 100 ~ 240V,	Mounting Type	Flush Mount Type
Picture Tube	5" Color TFT-LCD		Mount (DRC-4CA)
Power Consumption		Wiring	4 Wires (Polarity)
Operating	23 Watts	Power Source	DC 13V (Power
Normal	5.5 Watts		from monitor)
Transmitted Method	Door : 4 wires	Communication Method	Synchronous
	(Polarity)		Communication
<b>Communication Method</b>	Synchronous	Pick-Up Device	1/4" Color
Calling Sound	Commax Chime		CCD Camera
Video Receiving Time	90 $\pm$ 20 Seconds	Scanning Frequency	Horizontal
Communication Distance			:15.75KHz
For 0.65mm Cable	50m		Vertical : 60Hz
<b>Operating Temperature</b>	$0^{\circ}$ C~ +40 $^{\circ}$ C	Angular Field of Lens	Horizontal : 68°
<b>Operating Humidity</b>	Less than 90%		Vertical : 55°
Dimensions(W/H/D)mm	283/137/50	Angular Field of Adjust	Up : 12.5°
Weight (kg)	2.5		Down : 12.5°
		Minimum Illumination	3.0 Lux
Monitor for CDV-50D		Operating Temperature	-10° C ~+40° C
Voltage Adaptability	DC 18V 1A	Operating Humidity	Less than 90%
Power Consumption	Maximum 1.5W	Dimensions(W/H/D)mm	123/185/45
	Stand by 15W		(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.