

BURGLAR ALARM FUNCTION.

- A. This burglar alarm function works only in the monitors APV-4CSE or APV-4CMD.
- B. Press the burglar button, and the alarm will sound if a magnetic switch is opened.
- C. Press the burglar button again to turn it off.

NOTE : In the case that a communication line is opened in the DRC-240 System, monitoring is not available.

TROUBLE SHOOTING GUIDE

Carefully read and perform the following procedures before returning your Video Doorphone for repairs or replacement.

- If the Power Lamp fails to light, check that the Power On/Off Switch is in the On position. Also, make sure that the plug is properly inserted in the AC outlet.
- If the Power Lamp is dim, there is a short in the wires between the monitor and camera.
- There may be a wave of the picture for 0.5 seconds when screen comes up.
- If you see snow on the Monitor CRT, the wires between the monitor and camera are disconnected.
- If there is audio, but no picture on the Monitor CRT, the brightness control is incorrectly adjusted.
- If you can call and communicate, but there is no audio signal, the camera is defective.

SPECIFICATIONS.

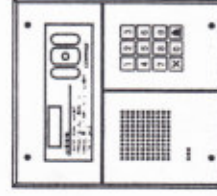
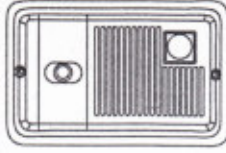
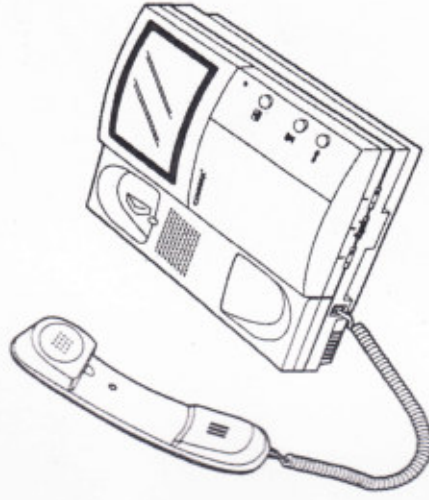
Model No.	APV-4CME/4CSE/4CMD/2	APV-4CMD/4CSD
CRT Screen	4" Flat B & W	
Power Source	90V-240VAC	24VDC
Intercom System	Duplex with handset for conversation	
Power Consumption	Stand by 1W Operating by 14W	
Transmission	4 wires in polarity	
Screen Time	20 Seconds ± 5	
Working Temperature	0°C to 40°C	
Dimension	196(W) × 232(H) × 68(D)	195(W) × 228(H) × 68(D)

COMMAX Co.,Ltd.

513-11, Sangdaewon-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, Korea
 Int'l Business Dept. : Tel.; +82-31-7393-540-550 Fax.; +82-31-745-2133
 Web site : www.commax.com

MULTI DIGITAL VIDEO DOORPHONE SYSTEM MONITOR

MODEL Nos.
 Monitor APV-4CME, 4CME/2
 -4CMD, 4CMD/2
 -4CSE



COMMAX Co.,Ltd.

www.commax.com



• 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 RISK OF ELECTRIC SHOCK DO NOT OPEN	CAUTION TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT 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.

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

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

© 2001 COMMAX COMPANY LIMITED

All Rights Reserved

Commax are registered and trademarks used by
commax company limited

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 one way. 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:

- when the power supply cord or plug is damaged;
- if liquid has been spilled or objects have fallen into the unit;
- if the equipment has been exposed to rain or water;
- if the equipment has been dropped or otherwise damaged;
- 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 these 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.

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.

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.

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.

INTRODUCTION

Congratulations on the purchase of your new video security intercom system!
 Please read these instructions carefully before installing your system and follow all of the directions to ensure proper installation.
 This instruction manual explains in simple steps how to install, use, and care for your new security system.

Serial Number (From Rear Panel) _____

Date of Purchase _____

TABLE OF CONTENTS

PARTS CHECKLIST	Page
FEATURES	2
INSTALLATION	3
WIRING	4
OPERATION	5
TROUBLE SHOOTING GUIDE	6
SPECIFICATIONS	7

MONITOR

1. Models

No	Model	Power	Guard house	Remark
1	APV-4CMD	DC 24	x	
2	APV-4CME	AC90-240V	x	SMPS built in
3	APV-4CSD	DC 24	O	
4	APV-4CSE	AC90-240V	O	SMPS built in

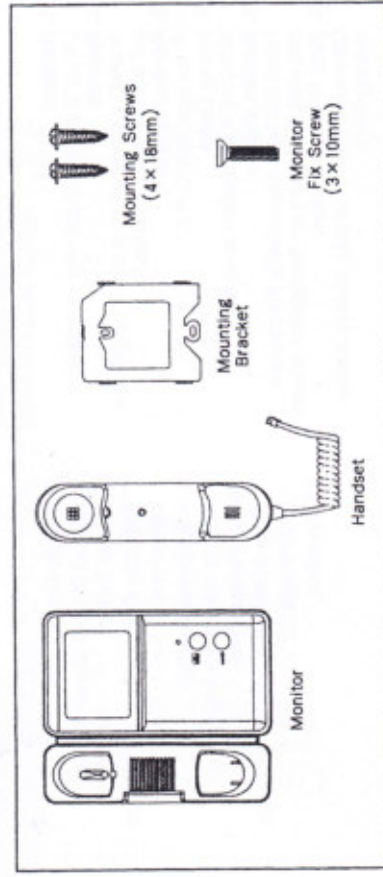
2. Features

- ① Max 240 Stations available
- ② able to use two(2) monitors
- ③ Able to connect individual house camera DRC-403 series (optional) with house monitor APV-4CME/2, 4CMD/2 or APV-4CSE/2, 4CSD/2.
- ④ Cable/Distance :
 - ∅ 0.65mm-120M ∅ 1.2mm-350M
 - ∅ 0.08mm-200M ∅ 1.5mm-500M
- ⑤ Requiring 24VDC Voltage regulator RF-2A as follows
 - 1pc RF-2A – 1pc camera, DRC-240/240T/403 series
 - 1pc RF-2A – per 3pcs DC powering Monitor.

PARTS CHECKLIST

Model No : APV-4CMD/4CME

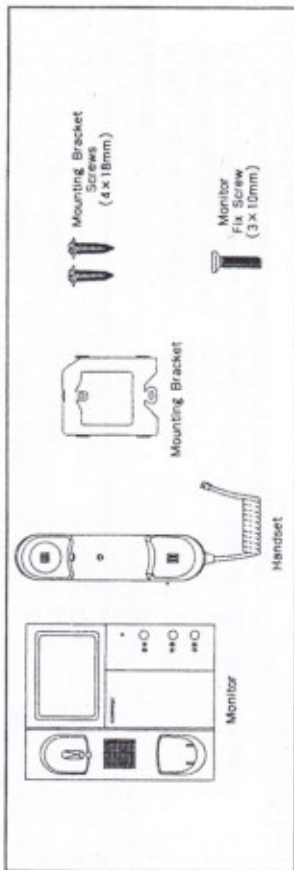
- Monitor 1
- Mounting Screws 2
- Handset 1
- Monitor Fix Screws 1
- Mounting Bracket 1



PARTS CHECKLIST

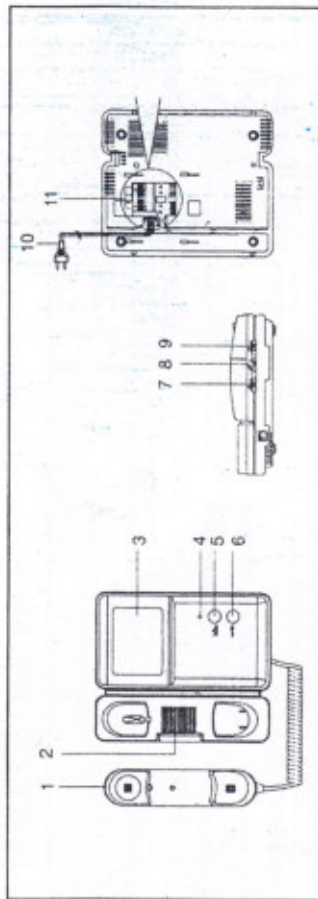
Model No : APV-4CSD/4CSE

- Monitor 1
- Handset 1
- Mounting Bracket 1
- Magnetic Switches 1
- Mounting Bracket Screws 2
- Monitor Fix Screws 2
- Installation Manual 1



FEATURES

APV-4CMD/4CME

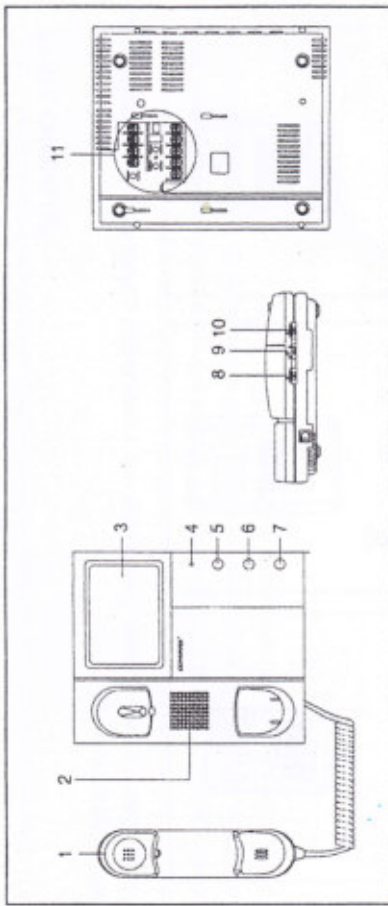


- 1. Handset**
Lift up to communicate with your visitors.
- 2. Speaker**
Sounds a chime when a visitor pushes the call button on the Camera.
- 3. Monitor Screen**
4" flat type BW C.R.T.
- 4. Power Lamp**
Indicates if the system is on or off.
- 5. Monitor Button**
Press this button to activate the camera and view the picture on the monitor screen.
- 6. Door Release Button**
Opens the door to let your visitors in after viewing them.

- 7. Call Sound Volume**
Adjusts the call sound volume.
- 8. Power Switch**
Activates and deactivates the Video doorphone.
- 9. Brightness Control**
Adjusts the picture brightness.
- 10. AC Power Cord**
Plugs the Monitor into the AC outlet. (* APV-4CME)
- 11. Terminal**

FEATURES

APV-4CSD/4CSE



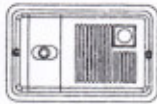

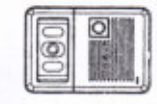







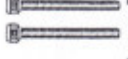
- 1. Handset**
Lift to communicate with your visitors.
- 2. Speaker**
Sounds a chime when a visitor pushes the call button on the camera.
- 3. Monitor Screen**
4" flat type BW C.R.T.
- 4. Power Lamp**
Lights when system is on.
- 5. Monitor Button**
Press to activate the Camera and view a visitor on the Monitor Screen.
- 6. Guard-Call Button**
Press to set guard-call mode.

- 7. Door Release Button**
Press to allow visitor to enter.
- 8. Volume**
Slide control to adjust volume of call sound from Camera.
- 9. Power Switch**
Powers Video Door Phone on and off.
- 10. Brightness Control**
Slide control to adjust picture brightness from Camera.
- 11. Terminal A**
Connects wires from the monitor, camera, power supply, door opener, magnetic switch and audio handset.

INDIVIDUAL CAMERAS (OPTIONAL)

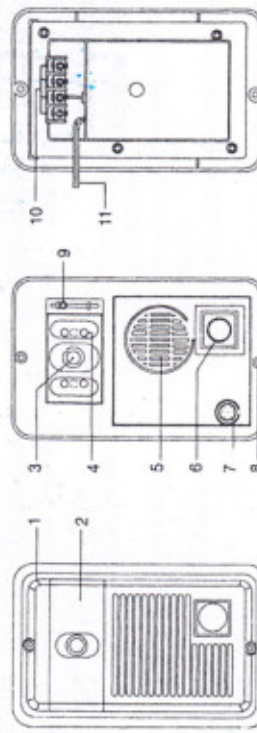
You may use individual cameras for your safety and convenience.

PARTS CHECKLIST

Flush type	DRC-403F	Flush type	DRC-403A	Surface type	DRC-403
			 Clamp  Spring  Panel Fix Screw (3 x 12mm)	 Mounting Screws (4 x 18mm)  Camera Fix Screw (3 x 8mm)	 Wrench  Screw Covers  Tamper Proof Screws (3 x 36mm)

FEATURES

1. Front housing
2. Camera window
3. CCD Camera lens.
4. IRIS provides a clear picture in any light condition even in complete darkness.
5. Speaker



6. Call button
7. Microphone
8. Special Screw
9. Camera angle lever
10. Monitor connector
11. Door releaser connecting wire

BASIC INSTALLATION INSTRUCTIONS

NOTE

It is highly recommended that you read these instructions completely prior to installation or use.

Wiring Requirements:

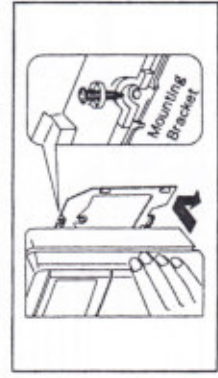
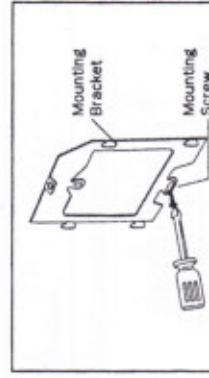
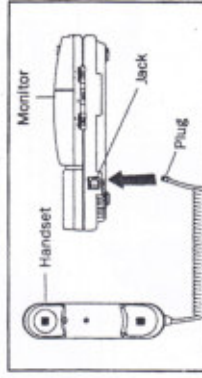
Wiring is not supplied with this system. Use only the wires that are mentioned on page 2. Follow the appropriate wiring diagrams exactly for optimal system performance and safety.

When planning the initial DRC-240 and APV system wiring installation, consider future system expansion. The total wire length must not exceed 500M of total wiring for optimum performance. (Refer to the wiring diagrams on pages 8, 9.)

MONITOR INSTALLATION

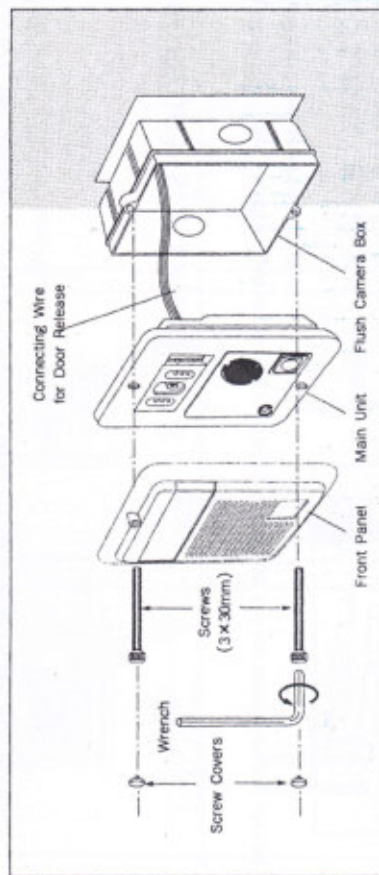
WARNING : This installation should be made only by a qualified service technician and should conform to all local building codes.

- A. Connect the routed wires from the camera unit to the monitor wiring terminal exactly as shown in the wiring diagrams on pages 8, 9.
- B. Connect the handset cord to the monitor unit.
- C. Attach the wired monitor unit to the wall mounting bracket by setting the monitor over the four bracket hooks and sliding it down about a 1/4". Insert the tiny machine screw into the hole in the tab at the top of the bracket to hold the monitor in place.



HOUSE CAMERA INSTALLATION (OPTIONAL)

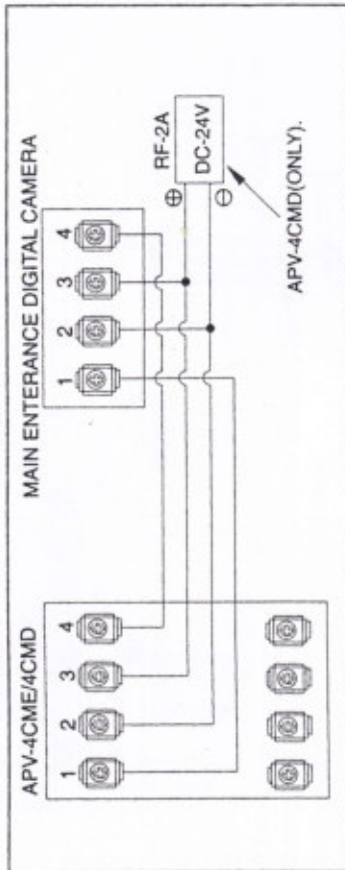
- Cut a hole in the wall large enough to allow placement of the recessed Camera Box.
- Remove the front panel and main unit from the Camera Box.
- Place the Camera Box flush with the wall. Secure to wall with wood screws (not included).
- Run video cable from the Camera to the planned Monitor location.
- Connect video cable to the 4 screw terminals located in the back of the camera.
- To adjust the Camera Lens angle, move the positioner up for a higher angle, or down for a lower angle.
- Place the main unit in the box, replace the front panel, and secure with two tamper-proof screws (included). Tighten screw covers (included) with the supplied wrench.



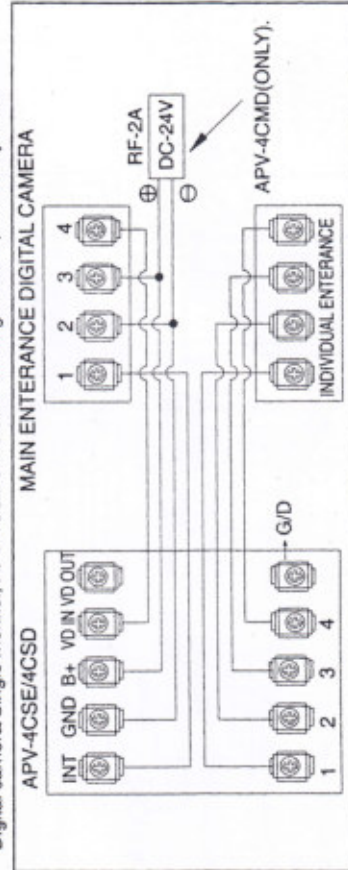
WIRING

BASIC :

Digital camera/Single monitor, APV-4CME or 4CMD System.

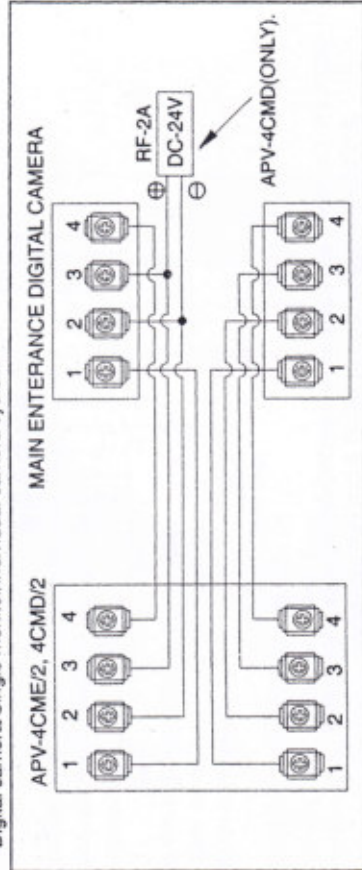


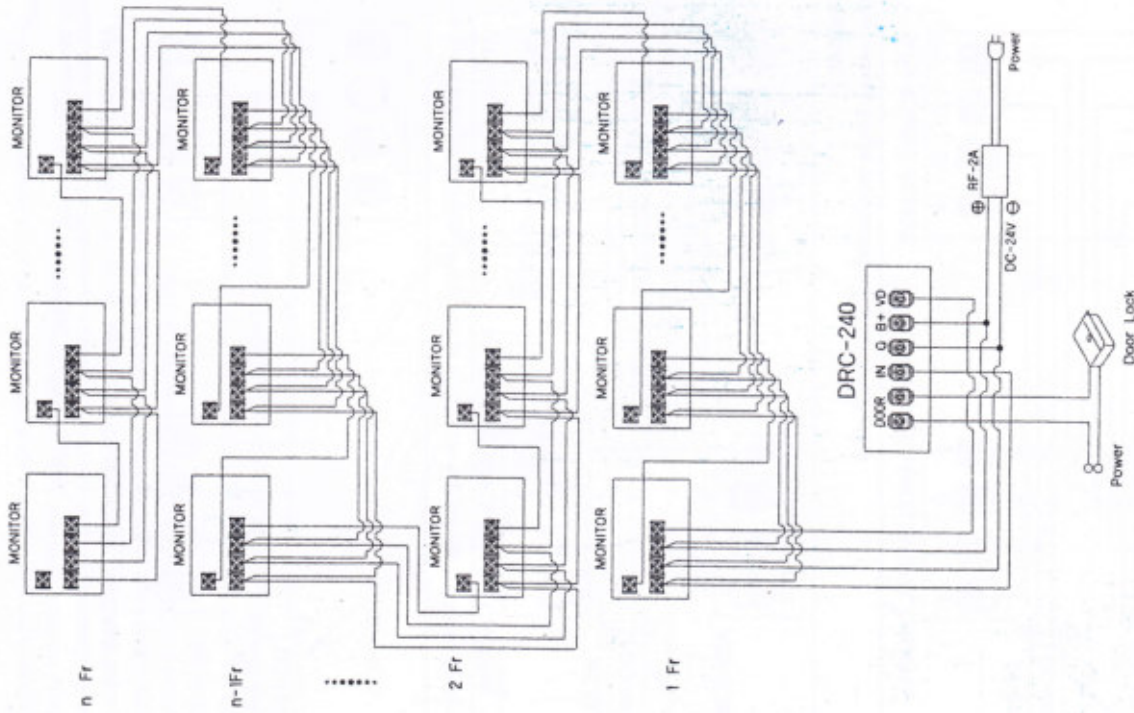
Digital camera/Single monitor, APV-4CSE or 4CSD with burglar alarm, MS-10 System.



OPTIONAL :

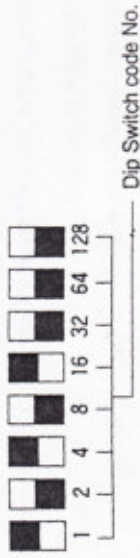
Digital camera/Single monitor/individual camera system





NOTE: 1. Common 4 wiring is required from DRC-240 to house video monitor.
 2. VD Line should be wired by INPUT & OUTPUT separately.

How to set a DIP switch



In the above figure, the monitor numbers are set up by dip switches. You can assign the sub number to the monitor from 1 to 240 by dip switch, and then assign the house number to the monitor by using the program function of DRC-240, the main entrance digital camera. For programming, refer to page 4 on DRC-240 manual.

Note : House calling should be done by the house number and not done by the given monitor number. Please do not change the DIP switch number of the monitor after setting up. (If DIP Switch number is changed, verify its house number in DRC-240 and rearrange.)

OPERATION

VIDEO DOORPHONE FUNCTION

- On the monitor, switch the Power switch to ON position. Make sure Power Lamp is lit.
- Set the Volume and Brightness controls found on bottom.
- When a visitor presses the Call Button on the camera, you will hear a chime tone, and the visitor will appear on the monitor.
- Pick up the Handset to speak to the visitor. He/She can speak to you through the microphone on the Camera.
- You can see the Camera's field of view for 20 seconds at any time, by pressing the Door Button. This allows you to monitor in silence as long as you do not pickup the handset.

