



# DPK-242

Single family video intercom  
2-wire system

User's Guide

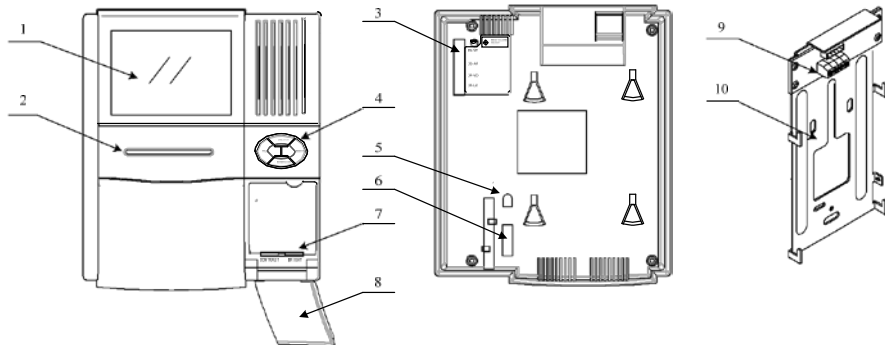


## **FEATURES**

- *SIMPLE 2-WIRE CONNECTION, NO POLARITY*
  - *15 CHORD TUNES SELECTABLE*
  - *DIRECTLY CONNECTING UP TO 4 EXTENDED MONITORS*
  - *INTERCOM FUNCTION WHEN MULTI MONITORS INSTALLED*
  - *LATCH CONNECTED WITH MONITOR*
-

# 1. PARTS AND FUNCTIONS

## 1.1 Indoor Monitor



- |                                |   |
|--------------------------------|---|
| 1. Screen                      | 6. Outdoor Station Connection (Main)      |
| 2. Blue LED Indicator          | 7. Image adjustment                       |
| 3. Extended Monitor Connection | 8. Cover                                  |
| 4. Function Buttons            | 9. Wiring Terminals for Extended Monitors |
| 5. DC-IN socket                | 10. Wall Mounting bracket                 |

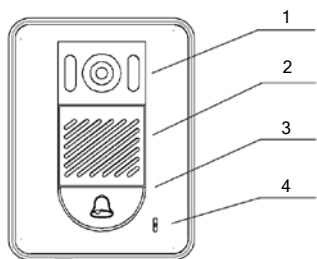
Accessory fittings: Bracket (Three 4X25 screws are needed for fastening the Mounting Bracket). Special 4 core cable to connect with Monitor for connecting extended Monitors. Use special 2 core cable to connect Outdoor Station.

Installation steps: The installation height of Indoor Monitor, usually from 145 to 160CM, then fix the bracket on 86 Installation Box or wall surface directly, then install the Monitor.

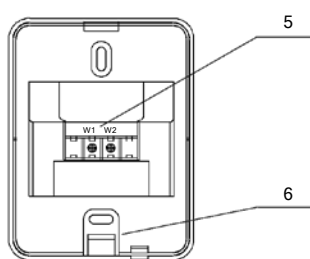
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## 1.2 Outdoor Station



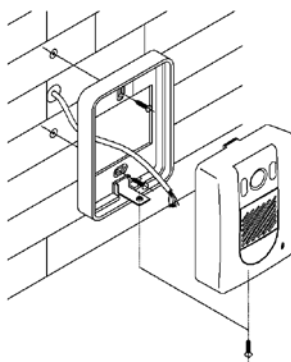
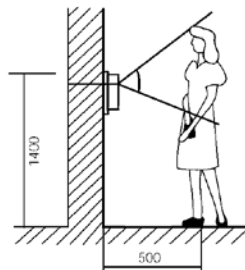
- 1. Camera
- 2. Speaker
- 3. Call Button
- 4. Microphone



- 5. Connection Terminals
- 6. Mounting hood

### Mount Instruction:

- ⌘ Fix mounting bracket with screw at recommended height (normally at 145~160CM, and 4X25 self-taping screw are recommended).
- ⌘ Wire the cable to terminals, and test system until it works.
- ⌘ Fix body with bracket, then tight the screw firmly.



## 2. Operation Instructions

### ■ Operation for Basic Video Doorphone

- 1) When visitor presses the Call Button on the Outdoor Station, the Monitor rings, at the same time, the screen displays the visitor image.
- 2) When press TALK Button, you can talk with the visitors for 90 seconds; During the talk state, press TALK again to end. If nobody answers the phone, the screen will turn off after 30 seconds automatically. If the system connects two or more Monitors, and when the TALK Button is pressed in one Monitor, the other Monitors will automatically shut off.
- 3) When the Monitor is in standby, press Monitor Button, the screen will display the view of the Door Station; press TALK Button you can speak to the Door Station; if wait 30 seconds or press Monitor Button again, the screen turns off.
- 4) Press Unlock Button to release the Electronic Latch during monitoring or talking.
- 5) Adjust the two image adjustment potentiometers to change contrast and brightness.
- 6) Adjust the volume potentiometer on the back of the monitor to change volume level.

### ■ Selection of Chord Melody

- 1) When Monitor is standby, press CHORD Select Button and hold 2 seconds, until it enters Chord melody selection state and plays current melody.
- 2) Press CHORD Select Button again to select preferred chord melody sequentially, one more time Chord Select Button is pressed, next melody is switched and played.
- 3) Press any other button to confirm melody selection; if wait 30s and no Button pressed, Monitor will exit Chord melody selection state.

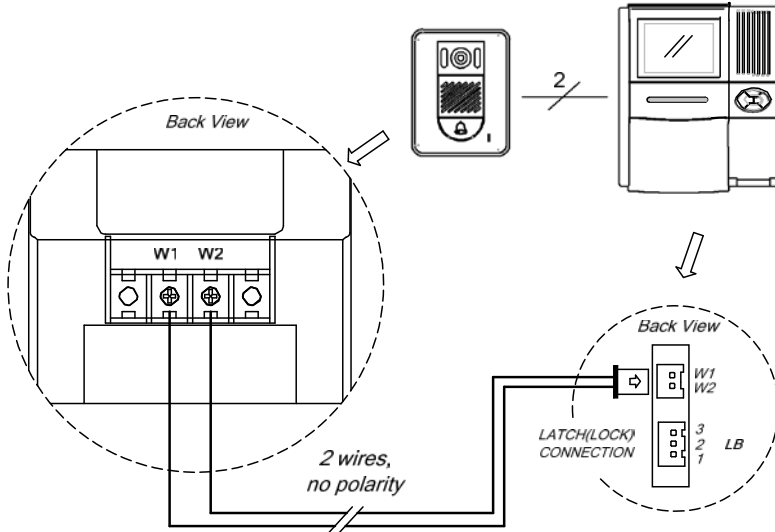
### ■ Operation for Intercom

- 1) When system is connected with multi Monitors, intercom is available.
- 2) Intercom calling can be initiated by any Monitor. Press INTERCOM button, LED will be lightened, and the other Monitors will ring. If TALK Button is pressed on the called Monitor, the intercom talking is connected.
- 3) If INTERCOM Button is pressed, and no Monitor answers, you can press the TALK Button to cancel or it will exit automatically after 30 seconds.
- 4) Intercom function is prior to monitor function, but calling function is always the first.

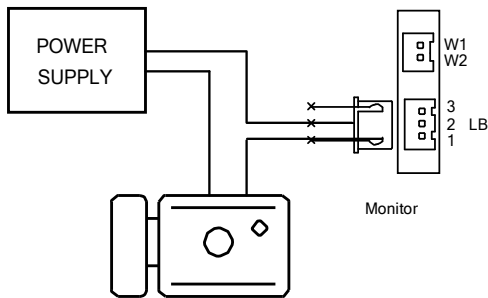
### 3. SYSTEM WIRING

#### 3.1. Connecting Outdoor Station

It's recommended to use RVV 2x0.5mm<sup>2</sup> non-shielded Cable to connect Outdoor station.



#### 3.2. Connecting Electronic Latch (Dry contact mode)



Note 1: Latch is connected with Monitor.

Note 2: Terminal 1&2 are Normally-Open contact, 2&3 are Normally-Closed contact.

Note 3: Extra power supply for latch should be installed, and nearly all kinds of electronic latch can be used, and in this mode, you can continue talking and monitoring during unlock.

### 3.3 Connection of Extended Monitors

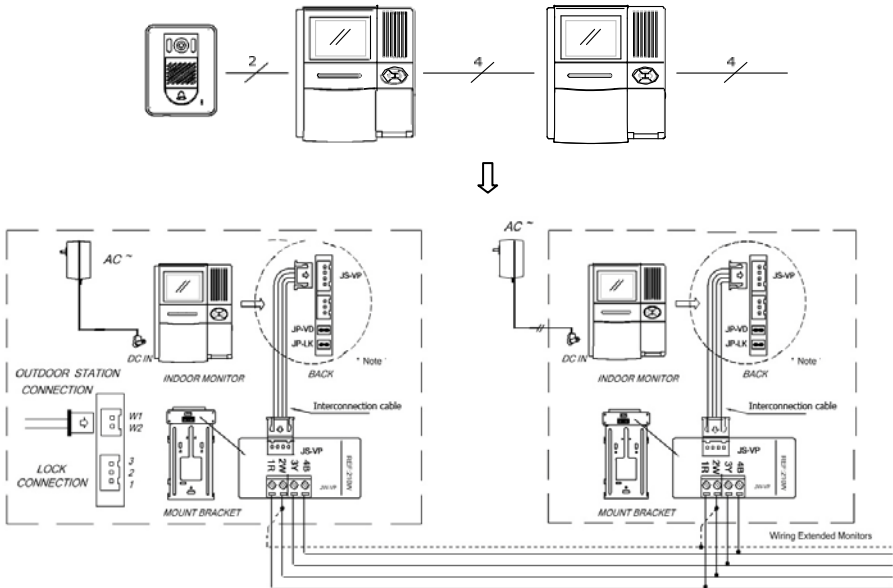
Indoor Monitor is capable of connecting multi extended Monitors.

First, connect the cable in the mount bracket, then connects the JS-VP port with the monitor by using 4 core cable (which is Interconnection Cable in following diagram).

Extended wiring terminals are described as below:

- 1R Power positive. +12V present when outdoor station calling or being supervised.
- 2W Power negative (GND)
- 3Y Image signal (Video signal)
- 4B Talk and control signal

It's recommended to use RVVP 4x0.3mm<sup>2</sup> shielded cable. And when distance is over 50m, we suggest to use additional coax cable RG-59 (or 3C-2V) to connect 3Y and 2W.



Note 1: JP-VD is used for setting the video impedance. When there is only one indoor monitor, keep the jumper (which is already on JP-VD). But when multi monitors are installed, be sure of taking away all JP-VD of monitors except only the last monitor.

## **4. PRECAUTIONS**

- 1) All parts should be protected from violence vibration. And not allow be impacting, knocking and dropping.
- 2) For clean the Lens& Screen, using hands or wet cloth is forbidden.
- 3) Please do the cleanness with soft cotton cloth, please do not use the organic or chemical clean impregnate. If necessary, please use a little pure water or dilute soap water to clean the dust.
- 4) Image distortion may occur if the video door phone is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- 5) Please keep away the video door monitor from wet, high temperature, dust, and caustic and oxidation gas in order to avoid any unpredictable damage.