## VIDEO SENTRY COLOR TILT
# AUDIO SUB-MASTER STATION
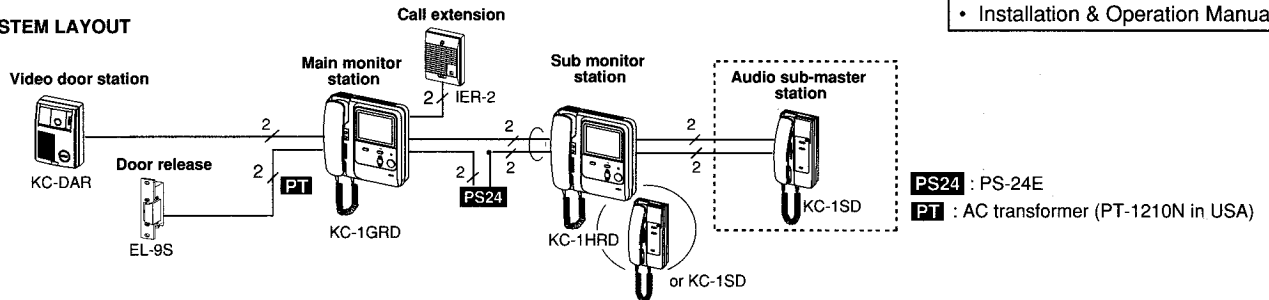
## Model: **KC-1SD**

### INSTALLATION & OPERATION MANUAL

## 1 SYSTEM OUTLINE & COMPONENTS

KC-1SD is an Audio-only sub-master station for use with VIDEO SENTRY COLOR TILT audio video entry security intercom KC-1GRD.
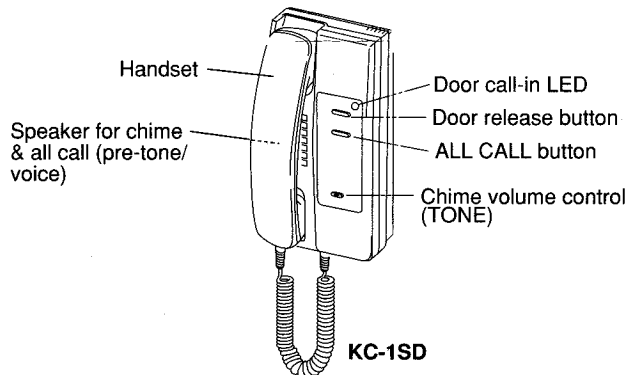
**PACKAGE CONTENTS**
- Audio sub-master station (KC-1SD)
- Mounting bracket
- Packet of screws
- Installation & Operation Manual

**SYSTEM LAYOUT**



PS24 : PS-24E
PT : AC transformer (PT-1210N in USA)

| Description | Models | Quantity |
|---|---|---|
| Video door station | KC-DAR | 1 pce |
| Main monitor station | KC-1GRD | 1 pce |
| Sub monitor station | KC-1HRD | Max. 2 pcs |
| Audio sub-master station | KC-1SD | Used in lieu of KC-1HRD (max. 2 pcs) |
| Power supply | PS-24E | 1 pce ~. Varies by system. |

## 2 NAMES & FEATURES



Handset
Speaker for chime & all call (pre-tone/voice)
Door call-in LED
Door release button
ALL CALL button
Chime volume control (TONE)

**KC-1SD**

**FEATURES**

- Audio only sub-master station capable of answering door, striking door & placing all call for internal calling.
- Front chime volume control. Can be cut off.
- Single-gang wall mounting.

## 3 INSTALLATION

* Before actually mounting KC-1SD, the contents of Manuals of KC-1GRD must be thoroughly read and understood.

### 1. Second room station

In KC-1GRD system, install one or two KC-1SD station(s) in place of sub-monitor station KC-1HRD.

### 2. Mounting location

KC-1SD is designed for wall-mounting only.

### 3. Cable

Use 2-conductor parallel cable for audio/video wires, which is loop-wired and not homerun, plus another pair for power supply in the same or separate jacketed cable.
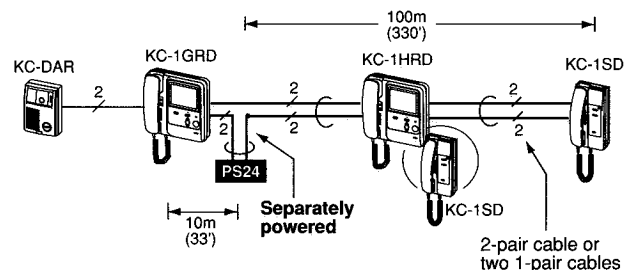
### Cable specifications:

- 0.65mmø ~1.0mmø (22AWG ~ 18AWG).
- Vinyl jacketed and PE(polyethylene) insulation is recommended.
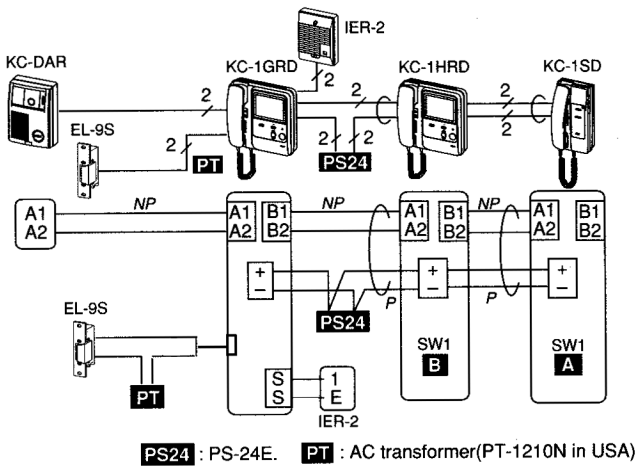
### 4. Power supply

Single power supply PS-24E suffices for up to three monitor stations. But be sure to **separately** run 2-cond. wire from PS-24E power supply to each main monitor station and sub monitor station.
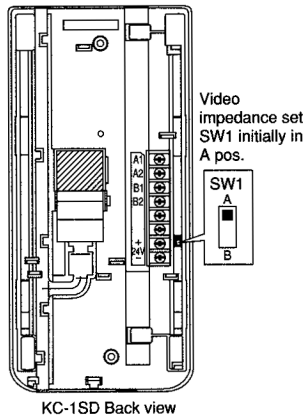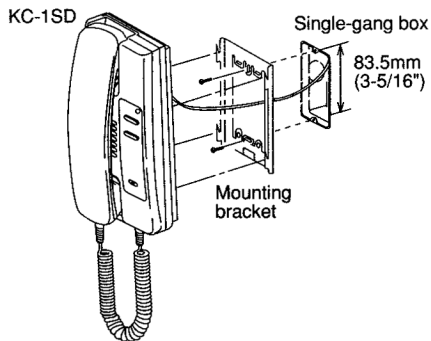
**KC-1GRD 3-station system**



PS24 : PS-24E (2A).

## 4 WIRING DIAGRAM



PS24 : PS-24E.　PT : AC transformer(PT-1210N in USA)

### • Impedance SW1 setting

| SW1 | KC-1GRD | KC-1HRD | KC-1SD |
|---|---|---|---|
| | None | B | A |

| SW1 | KC-1GRD | KC-1SD 1 | KC-1SD 2 |
|---|---|---|---|
| | None | B | A |

- Wrong impedance switch setting on one sub station is notified by tremolo warning tone, sounding at all the stations. Set properly and turn off and on power switch in KC-1GRD.
- Do not use any vacant terminal for relayer or other purpose.



Video impedance set SW1 initially in A pos.

KC-1SD Back view

## 5 MOUNTING



KC-1SD

Single-gang box

83.5mm (3-5/16")

Mounting bracket

1. Separate the mounting bracket on back of chassis.
2. Attach the mounting bracket to box or wall.
3. Connect wires on back of chassis.
4. Seeing the marks, insert the prongs of the bracket into the holes on chassis, and pull the unit downward until it locks.

## 6 OPERATIONS

**Answer door**   When door station calls, 4-tone chime sounds, with blinking red LED, 30 sec. timed(approx.). Lift KC-1SD handset to answer door. Communicate and it times out in 2-1/2 minutes(approx.).

**Internal call**   The other station calls in with pre-tone and voice is heard from speaker. ALL CALL button blinks red. Your KC-1SD station will not be heard by the initiator. Pick up and reply (the light is steadily lit).

**Place a call**   Lifting handset, momentarily press ALL CALL button. Upon pre-tone heard, call by voice, passing through the other two stations. Communicate with both handsets. Hang up at the end.

**Transfer door call**   Press ALL CALL button and tell the transferred station to pick up for a door call. Hang up. At the transferred station, pick up for internal call, and momentarily hook down to connect the door. At the end, hang up.

**Answer door (during internal communication)**   Chime tone sounds from speaker. Hang up both handsets to end internal call. ALL CALL button blinks. Answering station repicks up to communicate with the door.

**Strike door**   After identifying a caller, depress DOOR RELEASE button. Door strikes as long as the button is held down.

## 7 TECHNICAL PRECAUTIONS

- **Temperature:** KC-1SD is rated to operate at temperatures between 0°C ~ 40°C(32°F ~104°F).
- **Cleaning:** Clean KC-1SD with a soft cloth dampened with neutral household cleanser. Never use any abrasive cleaner or cloth.

## 8 SPECIFICATIONS (KC-1SD)

| | |
|---|---|
| Power source: | 24V DC. |
| Current consumption: | Max. 70mA.  50mA standby. |
| Door call-in: | 4-tone chime w/red LED blinking, 30 sec. (approx.) |
| Internal calling: | Pre-tone & voice w/ALL CALL button blinking. |
| Communication: | Simultaneous with handset. |
| Wiring: | 2-pair cable, KC-1GRD/1HRD to KC-1SD. |

Wiring distance:

| Diameter /AWG | 1.0mmø | 18AWG |
|---|---|---|
| • KC-1GRD ~ KC-1SD | 100m | 330' |

| | |
|---|---|
| Housing: | ABS plastic. |
| Color: | Snow white. |
| Dimensions: | 210H x 100W x 73.5D (mm). 8-1/4"H x 4" W x 3" D. |
| Weight: | Approx. 550g (1.21 lbs.). |