CHIME TONE INTERCOM
Type: 1 door — 1 room
Model: **IE-1AD(U)** (Room master station)

INSTRUCTIONS

1 **NAMES AND FUNCTIONS**

![](image)

**Mounting accessories:**
- Screw (x 2) (for mounting to electrical box)
- Wood screw (x 2) (for mounting to wall surface)

2 **FEATURES**

IE-1AD(U) is a Chime Tone Intercom room master station for system with one each room station and door station (IE series).

For power supply, a bell transformer can be used for both communication and door release (Example: when EL-9S is used, select a bell transformer of AC12~16V, 450mA or more).

A power supply (DC12~24V, 160mA or more) may also be used only for communication.

* Thin and compact body design, matching interior decor.
* 4-stroke chime for doorstation call-in.
* Simply pick up handset to reply to the caller.
* Door release button on room station.
* Adjustable chime call volume.
* Optional call extension speaker.
BEFORE YOU INSTALL AND OPERATE THE EQUIPMENT
— Prohibitions and precautions —

Operation;
DO NOT HOLD HOOK SWITCH DOWN WHILE PICKING UP HANDSET. THE CHIME TONE SOUNDS THROUGH THE HANDSET RECEIVER ELEMENT AND COULD CAUSE HEARING DAMAGE.

Installation;
* DO NOT CONNECT ANY TERMINAL ON ANY UNIT TO AC POWER LINES.
   When you mount IE-1AD(U) unit in place of existing bell or chime, be sure to disconnect wires from the present transformer.
* BE SURE TO DISCONNECT WIRES FROM BELL TRANSFORMER (or POWER SUPPLY) BEFORE YOU OPEN THE IE-1AD(U) UNIT OR MAKE WIRING CONNECTIONS.
* Avoid running the connecting wires through doors, windows or between furniture, which may pinch and disconnect the wires.
* IE-1AD(U) equipment must be installed in as dry and dust-free environment as possible.

Maintenance;
* Clean your IE-1AD(U) equipment with a soft cloth dampened with neutral household cleanser. Never use thinner, lacquer or benzine, etc.
* Do not splash water on the door station by hose, etc.

SYSTEM COMPONENTS

Room station;
IE-1AD(U) : Room master station. Wall-mount.
Door stations (one per system);
IE-DA : with brown plastic cover (surface-mount).
IE-DC : - do - (surface-mount).
IE-NC : - do - (semi-flush mount).
IE-JA : with stainless steel cover (flush-mount).
IE-FY : with aluminum cover (flush-mount).
IE-DL1 : 1-call, with brown anodized aluminum cover (surface-mount).
IE-DL2 : - do -, 2-call.
IE-DL3 : - do -, 3-call (each with illumination lamp).
Options;
IER-2 : Call extension speaker, with volume control.
EL-9S : Door release. AC 12V, 0.35A. Requires a separate bell transformer.

Notes; Your IE-1AD(U) can not work with IB/IC/ID series door stations. As to call extension, ICR-1 can be included in IE-1AD(U) system.

INSTALLATION

(1) Actual terminal location;

--- For power supply.
1 Connect to door station (non-polarized).
L
--- For electric door release.

--- For call extension (non-polarized)
(1) Remove 2 screws on back of the chassis and separate front case and chassis.
(2) As shown, take out two WHITE wires thru a hole on the chassis.
(3) Connect 2 wires to the wires from the IER-2 (non-polarized).
(2) Wall-mounting installation;

*Master stations:* Attach the mounting bracket to wall or single-gang box with the supplied wood screws or screws. Insert the prongs o
the bracket into the holes of the body and pull the body downward. Be careful not to attach the bracket upside down.

*Door station:* (*) When mounting to wall directly, remove the outlet part (*) on top or bottom of back frame to pass cable.

(**) Illustrates IF-DA's, and IE-DC mounts in the same manner.

6 WIRING DIAGRAM

Notes:
(1) Bell transformer for both communication and door release; AC 12-16V, 450mA or more (when EL-9S is used).

AC 12-16V, 700mA or more (when door release of other manufacture is used).

(2) Door release; Use a door release EL-9S (AC 12V, 350mA) or other manufacture's which does not exceed AC 12-16V

500mA, when powered by a system's bell transformer.

(3) Locate a system's power supply within a 10m/33' distance from main room station, using 0.65 mm dia./22AWG wires.

7 SPECIFICATIONS

Power source: IE-1AD(U); Powered by a bell transformer: AC 12-16V, 180mA OR a power supply DC 12-24V, 160mA.


Calling: 4-stroke electronic chime (w/slide volume switch).

Wiring: 2 wires (to door station) (non-polarized)

2 wires (to door release) (must be separated from communication's cable).

Door release button contact capacity: DC/AC 24V, 0.5A.

Wiring distance: *Between IE-1AD(U) & door station:

<table>
<thead>
<tr>
<th>AWG</th>
<th>24AWG</th>
<th>22AWG</th>
<th>20AWG</th>
<th>18AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>300</td>
<td>500</td>
<td>750</td>
<td>1,180</td>
</tr>
<tr>
<td>Diameter</td>
<td>0.65 mm</td>
<td>0.65 mm</td>
<td>0.8 mm</td>
<td>1.0 mm</td>
</tr>
<tr>
<td>Distance</td>
<td>90 m</td>
<td>150 m</td>
<td>230 m</td>
<td>360 m</td>
</tr>
</tbody>
</table>

Dimensions: (H x W x D) 210 x 80 x 58 (mm); 8-1/4" x 3-1/8" x 2-5/16"

Weight: Approx. 450 g (1 lb).
1. Communication;
   At door station;
   Momentarily depress CALL button. After room station replies, talk handsfree.
   At room station;
   Incoming call is announced by 4-stroke chime at IE-1AD(U) and IER-2, if installed. To reply, simply pick up handset at
   IE-1AD(U). After communication, hang up handset onto its cradle properly.

2. To operate door release;
   While holding handset, depress and hold DOOR RELEASE button on IE-1AD(U). The visitor may open the door while buzzing
   sound is heard.

3. Monitoring door station;
   Pick up handset and you can monitor the door station.

4. To adjust chime volume;
   Adjust chime volume as desired by the slide switch on IE-1AD(U), according to the room conditions.
   The chime volume at IER-2 can be changed separately by the switch provided.