HANDSET INTERCOM

Models; **AT-406** Set  
**AT-306** Additional sub

INSTALLATION & OPERATION MANUAL

1 SYSTEM OUTLINE & COMPONENTS

AT-406 is a Handset Intercom set, allowing two-way calling & communication.

- **Components available**
  - AT-406 Boxed set
  - **AT-406P** Decorative boxed set (N/A in USA)
  - **AT-306** Add-on sub (add 12 pcs max.)

- **Package Contents**
  - Handset Intercom set (AT-406) or Sub station (AT-306)
  - Mounting bracket
  - Packet of screws
  - Installation & Operation Manual

- **Power supply:**
  - SKK-620 in USA or **PS-6D**, or 4 pcs SUM-3(AA) batteries.
  - **TAR-3** relay for external signalling device.  
  Powered by a separate 6V DC power supply.

2 NAMES & FEATURES

- **AT-206** master
  - Battery check LED
  - **CALL** button
  - Battery compartment

- **AT-306** sub
  - **CALL** button

3 PRECAUTIONS ON INSTALLATION & WIRING

- **Mounting**
  AT-406 set is designed for indoor use only. Do not install outdoors. It must be used in wall-mounted applications only.

- **Wiring**
  AT-406 can be wired with 2 non-polarized wires. When add-on sub(s) is installed, connect in loop or home run. Keep audio wires 50cm, 20" away from any AC wiring, fluorescent lights, dimmer switches, etc.

- **External signalling device**
  Any particular station can be signalled by bell or light, while it rings.
  Install **TAR-3** relay powered by its own 6V DC power supply (SKK-620 or **PS-6D**).

- **Loading batteries**
  Slide down front battery cover. Place four SUM-3 (AA) batteries into compartment. Observe polarity.

- **Battery LED indicator**
  1. LED is brightly lit.  
  - Batteries are powerful enough.
  2. Becomes dim during use.  
  - Batteries are getting weaker.
  3. LED is no longer lit.  
  - Batteries are exhausted. Replace all four batteries with new ones.
4 WIRING

5 MOUNTING

Mount the intercom on bracket, aligning at the marks. Pull down on bracket, until it properly locks. Terminal section is on the back side. Do not disassemble the unit. For surface wall cable run, outlet hole is provided on the top or bottom of chassis.

6 OPERATIONS

Press CALL button to call other station(s)(max. 3 subs). It rings as long as CALL button is pressed. Communicate on handsets. At conclusion, replace handset onto cradle. If not hung up, battery power is consumed.

★ External device, connected to a station, is activated as long as call tone rings on handset.

7 TECHNICAL PRECAUTIONS

★ Do not hold hook switch down while handset is off hook, as the call tone sounds very loud through handset receiver.
★ Do not connect AC wires to any terminal on any unit.
★ Do not use DC power supply when the batteries are installed.
★ Do not install AT-406 in places subjected to temperature/humidity extremes, dust, oil, chemicals, salt, etc.
★ Clean AT-406 with a soft cloth dampened with neutral household cleanser. Never use any abrasive cleaner or cloth.

8 SPECIFICATIONS (AT-406)

- Power source: 6V DC, 120mA. OA standby.
- Power supply: SKK-620 in USA or PS-6D power supply. Or 4 pcs SUM-3(AA) batteries.
- Communication: Electronic tone rings opponent station(s). Common talk system with handset.
- Wiring: 2 wires parallel, non-polarized.

- Wiring distance:

<table>
<thead>
<tr>
<th>Diameter</th>
<th>AWG</th>
<th>22AWG</th>
<th>18AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.65mm</td>
<td>2-station 700m</td>
<td>2-station 2,300'</td>
<td>2-station 5,250'</td>
</tr>
<tr>
<td>1.0mm</td>
<td>3 AT-306's 400m</td>
<td>3 AT-306's 1,350'</td>
<td>3 AT-306's 3,100'</td>
</tr>
</tbody>
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- Dimensions & weight: 210H x 80W x 52D. 8-1/4”H x 3-1/8”W x 2”D.
  AT-206: 310g (0.68 lbs.) approx.
  AT-306: 280g (0.62 lbs.) approx.