# RTS

Innovating the Future of Global Communications

# ICW-6 Window Intercom

## Installation and Operation Instructions

## Proprietary Notice

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## Copyright Notice

## Warranty Notice

See the enclosed warranty card for further details.

## Customer Support

Technical questions should be directed to:

Customer Service Department
Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville, MN 55337 USA
Telephone: 800-392-3497
Fax: 800-323-0498
Factory Service: 800-553-5992

## Return Shipping Instructions

Parts & Service Department
Bosch Security Systems, Inc. (Lincoln, NE)
Telephone: 402-467-5321
Fax: 402-467-3279
Factory Service: 800-553-5992

Please include a note in the box which supplies the company name, address, phone number, a person to contact regarding the repair, the type and quantity of equipment, a description of the problem and the serial number(s).

## Shipping to the Manufacturer

All shipments of product should be made via UPS Ground, prepaid (you may request from Factory Service a different shipment method). Any shipment upgrades will be paid by the customer. The equipment should be shipped in the original packing carton. If the original carton is not available, use any suitable container that is rigid and of adequate size. If a substitute container is used, the equipment should be wrapped in paper and surrounded with at least four (4) inches of excelsior or similar shock-absorbing material. All shipments must be sent to the following address and must include the Proof of Purchase for warranty repair. Upon completion of any repair the equipment will be returned via United Parcel Service or specified shipper, collect.

Factory Service Department
Bosch Security Systems, Inc.
8601 East Cornhusker Hwy.
Lincoln, NE 68507 U.S.A.
Attn: Service

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# *Introduction*

**IMPORTANT:**     Use the power supply included with the ICW-6. Use of any other power supply could damage the ICW-6 and will void the warranty.

## *Unpacking and Inspection*



### ICW-6 Package

**A.** Cordset - European

**B.** Cordset - U.S.A.

**C.** ICW-6 Final Assembly
   1. Operator-Side Assembly
   2. Customer-Side Assembly

**D.** Switching Power Supply

**E.** Installation Kit
   - #6 screws 1" (3)
   - #6 washers (3)
   - Cable Tie

**F.** User Manual (not shown)

**G.** Mounting Template (not shown)

**H.** Quick Start Guide (not shown)
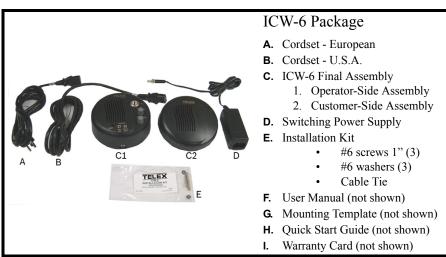
**I.** Warranty Card (not shown)

**FIGURE 1.** ICW-6 System Components

Unpack the equipment from the shipping case and inspect for missing or damaged components. You should have all of the items listed in Figure 1 .

## Recommended Items

- No.1 Phillips screwdriver
- Equipment for cutting/drilling hole(s) for mounting (See Installation section for details)
- 1" wide transparent tape
- Scissors (For cutting the mounting template from the last page).

## Specifications

General

    Power Requirement

        50mA max @ 110-240VAC, 5VDC 600mA maximum

    System Frequency Response

        200 to 4.5 kHz ±3 dB

    Environmental

        -20° C to 55° C, 0% to 90% humidity, non-condensing

Outputs

    External Speaker

        2W: 100dB SPL at 1ft. at 1 kHz, C weighting

    Internal Speaker

        2W: 100dB SPL at 1ft. at 1 kHz, C weighting

*Note: These are sine wave maximums. Voice measurements will range 70 to 90 dB SPL.*

    Headphones

        80 mW: 100dB peak SPL

        Voice Range: 84 to 104 dB SPL

        Impedance: 50 Ω

Inputs

    Internal Panel Microphone

        Electret: 4 mv at 1kHz, typical into 1000 ohms source impedance

    External Headset Microphone

        Dynamic: range 4 mv at 1kHz, typical into 200 ohms
        Source Impedance Dynamic: 200 ohms

Options

    Gooseneck Microphone

        MCP-90-3, MCP-90-8, MCP-90-12, MCP-90-18

    Headsets

        PH-44-IC3 (Dual Headphone), PH-88-IC3 (Single Headphone)

## *Accessories*

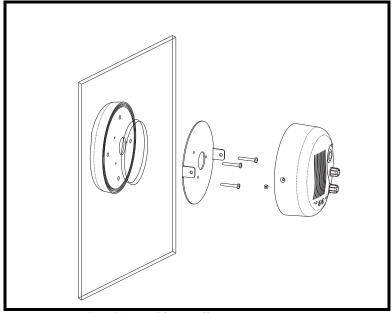| Description | Part Number |
|---|---|
| MCP-90-12 | 301029000 |
| MCP-90-18 | 301030000 |
| PH-88-IC3 | 300852300 |
| PH-44-IC3 | 300853300 |
| PH-88-IC3-QD | 300853301 |
| PH-44-IC3-QD | 300853300 |

# *Installation and Operation*

**FIGURE 2.** ICW-6 Assembly Detail

## *Installation*

1. Remove the **two (2) screws** holding the mounting plate to the operator assembly. (See Figure 2 .)

2. Measure and identify the **location** where the intercom is to be mounted.

3. Attach the **mounting template** (supplied in box) to the window (customer assembly side) being sure to center the appropriate guide in the location identified in step 2.

> **NOTE:** Use either the single large hole, or multiple small holes depending on which method you choose. Using the multiple small hole method with bullet-proof glass will afford maximum operator protection (Figure 4).

4. Cut and/or drill the **hole(s)** from the customer assembly side.

5. Have an assistant place the **customer assembly** against the window. Make sure the holes line up correctly.

6. Attach the **mounting plate** removed from the operator assembly (See Step 1) using the three (3) supplied mounting screws and rubber washers. (See Figure 5).

7. Remove the lower left screw and washer and attach the ground wire (See Figure 6).

> **CAUTION:** Do not let the intercom hang by the ground wired. The connection may break.

8. Attach the **cable harness** from the customer assembly to the connector on the operator assembly (See Figure 6).

9. Attach the **operator assembly to the mounting plate** using the screws removed in Step 1.

10. Screw the **threaded end** of the ICW-6 power supply interface cord into the ICW-6. *The connector is located on the bottom of the ICW-6 on the operator assembly side.*

11. Secure the **cord** to the glass using wide clear adhesive tape.

12. Connect the **power supply to AC power** using the supplied IEC cord.

**13**. Attach the **ICW-6's power cord** to the power supply.
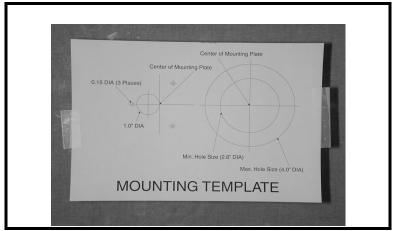


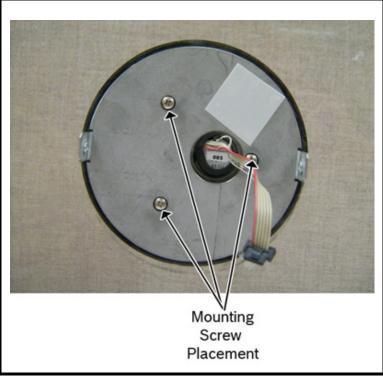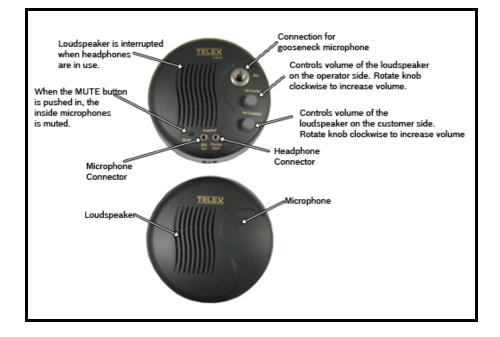FIGURE 3. **Operator and Customer assemblies**



FIGURE 4. **Mounting Template**

Mounting
Screw
Placement

**FIGURE 5.  Customer Side Mounted**

**FIGURE 6.  Connecting customer and operator assemblies prior to final mounting.**

# Operation



# Inside and Outside Mic Adjustment Pot

On the ICW-6, you can adjust the sensitivity of the inside and outside mic. This means the how far away from the microphone a person can stand to talk and still be heard.

## Mic Adjustment Pot Location

By default, the following applies:

- The inside mic is set midpoint, 2"- 3" Speak Zone
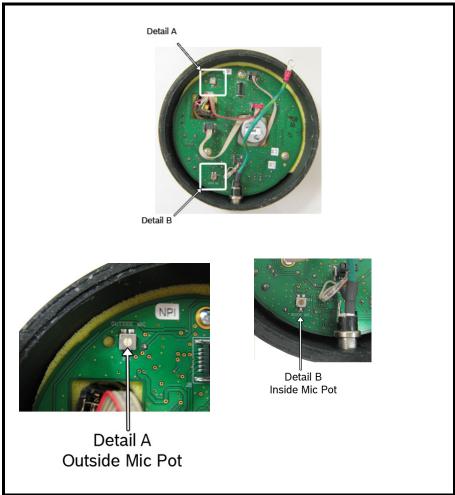- The outside mic is set midpoint, 1' - 2' Speak Zone

**FIGURE 7.** ICW-6 Inside and Outside Mic Pot Location

To **adjust the inside or outside mic sensitivity level**, do the following:

1.  Using a small screwdriver, remove the **two (2) side screws** from the operator side unit.



**FIGURE 8.** Side Screws Holding the Back Plate to the Operator Unit

2.  Carefully remove the **back plate** from the operator side unit.
3.  Using Figure 7 , locate the **mic pot** you want to adjust.
4.  With a flathead screwdriver, turn the **mic pot clockwise** to increase the sensitivity.
    OR
    Turn the **mic pot counter-clockwise** to decrease the sensitivity.

*Notes*