SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

GUIDE SPECIFICATION

Specifier: The Specifier/Design Professional is responsible for the accuracy of all project specifications, including system application and coordination with related sections. This guide specification is provided as a convenience and requires editing to match actual project requirements. CRESTRON ELECTRONICS, INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS. For Crestron design assistance and design review please contact Sales Support Services Department at 800.237.2041 or techsales@crestron.com.

Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.

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1. GENERAL

NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.

1. PRODUCTS
   1. CEILING SPEAKER TYPE 1:

Specifier Note: The Saros Integrator ICI4T model is a 2-way in-ceiling speaker featuring a 4 inch woofer and 3/4 inch dome tweeter. Saros® Integrator speakers by Crestron® offer a high-quality in-ceiling speaker solution for cost-sensitive commercial installations.

* + 1. Basis of Design:
       1. **Crestron SAROS ICI4T**
    2. Device Architecture
       1. Enclosure material: Painted steel, plenum rated.
       2. Baffle: ABS UL94V-0 plastic.
       3. Grille:
          1. Perforated metal
          2. Push-on friction fit
          3. White finish
       4. Mounting:
          1. Flush ceiling mount.
          2. Four integral two-step toggle mounting clamps.
          3. Maximum ceiling thickness: 1.5 inches (38 mm).
          4. Cutout diameter: 6.8 inches (173 mm).
          5. Minimum ceiling cavity depth: 6.2 inches (156 mm) without conduit.
       5. Environmental Operating Conditions:
          1. Temperature: 20° to 120°F (-7° to 49°C)
          2. Humidity: 5% to 95% RH (non-condensing)
       6. Included Accessories:
          1. Support bridge for tile ceiling installation.

Adjustable for off center installation.

* + - 1. Optional Accessories:
         1. Safety Tether

Have a minimum of one (1) safety wire installation point.

* + - 1. Termination:
         1. 4-pin 5 mm screw down conductor detachable terminal block with speaker input and parallel pass-through connections.
         2. Maximum wire size: 12 AWG.
         3. Conduit knockouts:

One 0.5-inch knockout.

One 0.75-inch knockout.

* + - 1. Dimensions:
         1. Diameter: 8.11 inches (206 mm), not including toggles.
         2. Depth: 5.87 inches (149 mm).
      2. Weight: 4.9 lb (2.3 kg).
      3. Drivers:
         1. 4-inch (102 mm) woofer; cone, ported
         2. .79-inch (20 mm) dome tweeter
    1. Functions
       1. Speaker unit shall be equipped for Low Impedance 8 Ω or High Impedance 70 V or 100 V operation.
          1. Accessible front mounted low impedance, high impedance selector switch.
       2. High Impedance Line Transformer:
          1. Four level taps at 70 V:

3.75 Watts

7.5 Watts

15 Watts

30 Watts

* + - * 1. Three level taps at 100 V:

7.5 Watts

15 Watts

30 Watts

* + - * 1. Low Impedance transformer:

8 Ω

* + - 1. Sensitivity: 89 dB at one meter, with 1 W input.
      2. Frequency Response: Within plus or minus 3 dB from 100 to 15,000 Hz.
      3. Frequency Range: Within minus 10 dB from 80 to 20,000 Hz.
      4. Nominal Coverage: 120 degrees conical.
      5. Power Handling: 30 Watts Program at 8 Ω.
    1. Compliance
       1. UL 1480
       2. UL 2043
  1. CEILING SPEAKER TYPE 2:

Specifier Note: The Saros Integrator ICI6T model is a 2-way in-ceiling speaker featuring a 6.5 inch woofer and 3/4 inch dome tweeter. Saros® Integrator speakers by Crestron® offer a high-quality in-ceiling speaker solution for cost-sensitive commercial installations.

* + 1. Basis of Design Product:
       1. **Crestron SAROS ICI6T**
    2. Device Architecture
       1. Enclosure material: Painted steel, plenum rated.
       2. Baffle: ABS UL94V-0 plastic.
       3. Grille:
          1. Perforated metal
          2. Push-on friction fit
          3. White finish
       4. Mounting:
          1. Flush ceiling mount.
          2. Four integral two-step toggle mounting clamps.
          3. Maximum ceiling thickness: 1.5 inches (38 mm).
          4. Cutout diameter: 8.8 inches (224 mm).
          5. Minimum ceiling cavity depth: 8.9 inches (226 mm) without conduit.
       5. Environmental Operating Conditions:
          1. Temperature: 20° to 120°F (-7° to 49°C)
          2. Humidity: 5% to 95% RH (non-condensing)
       6. Included Accessories:
          1. Support bridge for tile ceiling installation.

Adjustable for off center installation.

* + - 1. Optional Accessories:
         1. Safety Tether

Have a minimum of one (1) safety wire installation point.

* + - 1. Termination:
         1. 4-pin 5 mm screw down conductor detachable terminal block with speaker input and parallel pass-through connections.
         2. Maximum wire size: 12 AWG.
         3. Conduit knockouts:

One 0.5-inch knockout.

One 0.75-inch knockout.

* + - 1. Dimensions:
         1. Diameter: 9.95 inches (253 mm), not including toggles.
         2. Depth: 8.63 inches (219 mm).
      2. Weight: 6.9 lb (3.2 kg).
      3. Drivers:
         1. 6.5-inch (165 mm) woofer; cone, ported
         2. 0.79-inch (20 mm) dome tweeter
    1. Functions
       1. Speaker unit shall be equipped for Low Impedance 8 Ω or High Impedance 70 V or 100 V operation.
          1. Accessible front mounted low impedance, high impedance selector switch.
       2. High Impedance Line Transformer:
          1. Four level taps at 70 V:

3.75 Watts

7.5 Watts

15 Watts

30 Watts

* + - * 1. Three level taps at 100 V:

7.5 Watts

15 Watts

30 Watts

* + - * 1. Low Impedance transformer:

8 Ω

* + - 1. Sensitivity: 91 dB at 1 W, 1 m away.
      2. Frequency Response: Within plus or minus 3 dB from 95 to 15,000 Hz.
      3. Frequency Range: Within minus 10 dB from 65 to 20,000 Hz.
      4. Nominal Coverage: 110 degrees conical.
      5. Power Handling: 50 W program at 8 Ω
    1. Compliance
       1. UL 1480
       2. UL 2043

1. EXECUTION

NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.

1. APPENDICES
   1. SPECIFIED PRODUCTS
      1. Crestron SAROS ICI4T
      2. Crestron SAROS ICI6T