SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

GUIDE SPECIFICATION

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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 ULTIMATE IC6‑W‑T‑EACH 2-way in‑ceiling speaker features a 6.5 in. (165 mm) carbon fiber woofer for deep, defined low end and articulate midrange, and a 1 in. (25 mm) ceramic coated aluminum tweeter for crisp highs with consistent coverage across a wide listening area. Crestron® Ultimate speakers made by Origin Acoustics deliver the pinnacle of performance for demanding residential installations. Select materials, top shelf components and a high-end appearance underscore the design behind each model.

* + 1. Basis of Design:
       1. **Crestron ULTIMATE IC6**
    2. Device Architecture
       1. Baffle: Glass fiber reinforced ABS
       2. Grille:
          1. Electroplated and powder coated steel, paintable.
          2. Magnetically held bezel design.
       3. Mounting:
          1. Tool-less bayonet mounting system.
          2. Cutout diameter: 8.75 inches (222 mm).
       4. Environmental Operating Conditions:
          1. Temperature: 4° to 176°F (-15.5° to 80°C)
          2. Humidity: 10% to 90% RH (non-condensing)
          3. For indoor use only
       5. Optional Accessories:
          1. Flush mount kit
          2. Pre-construction mounting kit
          3. New construction template
          4. Fire rated back box
          5. Acoustic back can
       6. Termination:
          1. Two (2) Gold-plated spring terminals
          2. Maximum wire size: 10 AWG (5.26 mm^2)
       7. Dimensions:
          1. Diameter without grille: 9.61 in. (244 mm)
          2. Depth: 4.13 in. (105 mm)
          3. Round Grille: 10.20 in. (259 mm)
       8. Weight: 4.8 lb. (2.17 kg)
       9. Drivers:
          1. 6.5-inch (165 mm) carbon fiber woofer
          2. 1-inch (25 mm) ceramic coated aluminum tweeter
    3. Functions
       1. Crossover: 12 dB/oct
       2. Crossover point: 30 dB/oct at 3.5 kHz
       3. Impedance: 8 Ω nominal
       4. Frequency Response: 52 Hz to 30 kHz (± 3 dB)
       5. Frequency Range: 45 Hz to 30 kHz (± 10 dB)
       6. Power Handling
          1. Program: 150 W
          2. Peak: 300 W
       7. Sensitivity: 86 dB at 1 W / 1 m
    4. Compliance
       1. CE
       2. RoHs
       3. FCC Part 15 Class B digital device
       4. Regulatory Model M202046006
  1. CEILING SPEAKER TYPE 2:

Specifier Note: The ULTIMATE IC6‑AW-W‑T‑EACH 2-way all weather in‑ceiling speaker features a 6.5 in. (165 mm) carbon fiber woofer for deep, defined low end and articulate midrange, and a 1 in. (25 mm) ceramic coated aluminum tweeter for crisp highs with consistent coverage across a wide listening area. Crestron® Ultimate speakers made by Origin Acoustics deliver the pinnacle of performance for demanding residential installations. Select materials, top shelf components and a high-end appearance underscore the design behind each model.

* + 1. Basis of Design:
       1. **Crestron ULTIMATE IC6-AW**
    2. Device Architecture
       1. Baffle: Glass fiber reinforced ABS
       2. Grille:
          1. Electroplated and powder coated steel, paintable.
          2. Magnetically held bezel design.
       3. Mounting:
          1. Tool-less bayonet mounting system.
          2. Cutout diameter: 8.75 inches (222 mm).
       4. Environmental Operating Conditions:
          1. Temperature: 4° to 220°F (-15.5° to 104°C)
          2. Humidity: 10% to 90% RH (non-condensing)
          3. IP66 rated for water
       5. Optional Accessories:
          1. Flush mount kit
          2. Pre-construction mounting kit
          3. New construction template
          4. Fire rated back box
          5. Acoustic back can
       6. Termination:
          1. Two (2) Gold-plated spring terminals
          2. Maximum wire size: 10 AWG (5.26 mm^2)
       7. Dimensions:
          1. Diameter without grille: 9.61 in. (244 mm)
          2. Depth: 3.70 in. (105 mm)
          3. Round Grille: 10.20 in. (259 mm)
       8. Weight: 4.8 lb. (2.17 kg)
       9. Drivers:
          1. 6.5-inch (165 mm) carbon fiber woofer
          2. 1-inch (25 mm) ceramic coated aluminum tweeter
    3. Functions
       1. Crossover: 12 dB/oct
       2. Crossover point: 30 dB/oct at 3.5 kHz
       3. Impedance: 8 Ω nominal
       4. Frequency Response: 52 Hz to 30 kHz (± 3 dB)
       5. Frequency Range: 45 Hz to 30 kHz (± 10 dB)
       6. Power Handling
          1. Program: 150 W
          2. Peak: 300 W
       7. Sensitivity: 86 dB at 1 W / 1 m
    4. Compliance
       1. CE
       2. RoHs
       3. FCC Part 15 Class B digital device
       4. Regulatory Model M202046006
  1. CEILING SPEAKER TYPE 3:

Specifier Note: The ULTIMATE IC8-AW-W-T-EACH 2-way all weather in‑ceiling speaker features an 8 in. (203 mm) carbon fiber woofer for deep, defined low end and articulate midrange, and a 1 in. (25 mm) ceramic coated aluminum tweeter for crisp highs with consistent coverage across a wide listening area. Crestron® Ultimate speakers made by Origin Acoustics deliver the pinnacle of performance for demanding residential installations. Select materials, top shelf components and a high-end appearance underscore the design behind each model.

* + 1. Basis of Design:
       1. **Crestron ULTIMATE IC8-AW**
    2. Device Architecture
       1. Baffle: Aluminum, brushed and anodized
       2. Grille:
          1. Electroplated and powder coated steel, paintable.
          2. Magnetically held bezel design.
       3. Mounting:
          1. Tool-less bayonet mounting system.
          2. Cutout diameter: 8.75 inches (222 mm).
       4. Environmental Operating Conditions:
          1. Temperature: 4° to 220°F (-15.5° to 104°C)
          2. Humidity: 10% to 90% RH (non-condensing)

For indoor use only

* + - * 1. IP66 rated for water
      1. Optional Accessories:
         1. Flush mount kit
         2. Pre-construction mounting kit
         3. New construction template
         4. Fire rated back box
         5. Acoustic back can
      2. Termination:
         1. One (1) 2-pin 5.08 mm pitch 10 A detachable terminal block
         2. Maximum wire size: 12 AWG (3.31 mm^2)
      3. Dimensions:
         1. Diameter without grille: 9.61 in. (244 mm)
         2. Depth: 4.64 in. (105 mm)
         3. Round Grille: 10.20 in. (259 mm)
      4. Weight: 5 lb. (2.26 kg)
      5. Drivers:
         1. 8-inch (203 mm) carbon fiber woofer
         2. 1-inch (25 mm) ceramic coated aluminum tweeter
    1. Functions
       1. Crossover: 12 dB/oct
       2. Crossover point: 30 dB/oct at 3.5 kHz
       3. Impedance: 8 Ω nominal
       4. Frequency Response: 45 Hz to 30 kHz (± 3 dB)
       5. Frequency Range: 35 Hz to 30 kHz (± 10 dB)
       6. Power Handling
          1. Program: 150 W
          2. Peak: 300 W
       7. Sensitivity: 86 dB at 1 W / 1 m
    2. Compliance
       1. CE
       2. RoHs
       3. FCC Part 15 Class B digital device
  1. CEILING SPEAKER TYPE 4:

Specifier Note: The ULTIMATE IC8‑DT-AW-W‑T‑EACH stereo 2-way all weather in-ceiling dual tweeter speaker features an 8 in. (203 mm) carbon fiber woofer for deep, defined low end and articulate midrange, and dual 1 in. (25 mm) ceramic coated aluminum dome tweeters for crisp highs with consistent coverage across a wide listening area. Crestron® Ultimate speakers made by Origin Acoustics deliver the pinnacle of performance for demanding residential installations. Select materials, top shelf components and a high-end appearance underscore the design behind each model.

* + 1. Basis of Design:
       1. **Crestron ULTIMATE IC8-DT-AW**
    2. Device Architecture
       1. Baffle: Glass fiber reinforced ABS
       2. Grille:
          1. Electroplated and powder coated steel, paintable.
          2. Magnetically held bezel design.
       3. Mounting:
          1. Tool-less bayonet mounting system.
          2. Cutout diameter: 8.66 inches (220 mm).
       4. Environmental Operating Conditions:
          1. Temperature: 4° to 176°F (-15.5° to 80°C)
          2. Humidity: 10% to 90% RH (non-condensing)
          3. IP66 rated for water
       5. Optional Accessories:
          1. Flush mount kit
          2. Pre-construction mounting kit
          3. New construction template
          4. Fire rated back box
       6. Termination:
          1. Two (2) 2-pin pluggable screw terminals
          2. Maximum wire size: 12 AWG (3.31 mm^2)
       7. Dimensions:
          1. Diameter without grille: 9.61 in. (244 mm)
          2. Depth: 4.29 in. (109 mm)
          3. Round Grille: 10.20 in. (259 mm)
       8. Weight: 5.29 lb. (2.39 kg)
       9. Drivers:
          1. 8-inch (203 mm) carbon fiber woofer
          2. Two (2) 1-inch (25 mm) ceramic coated aluminum dome tweeters
    3. Functions
       1. Crossover: 12 dB/oct
       2. Crossover point: 30 dB/oct at 3.5 kHz
       3. Impedance: 8 Ω nominal
       4. Frequency Response: 38 Hz to 20 kHz (± 3 dB)
       5. Frequency Range: 35 Hz to 30 kHz (± 10 dB)
       6. Power Handling
          1. Program: 150 W
          2. Peak: 300 W
       7. Sensitivity: 86 dB at 1 W / 1 m
    4. Compliance
       1. CE
       2. RoHs
       3. FCC Part 15 Class B digital device
  1. CEILING SPEAKER TYPE 5:

Specifier Note: The ULTIMATE ICS8‑AW-W‑T‑EACH is an in-ceiling subwoofer designed to produce deep, gratifying bass in any room. Crestron® Ultimate speakers made by Origin Acoustics deliver the pinnacle of performance for demanding residential installations.

* + 1. Basis of Design:
       1. **Crestron ULTIMATE ICS8-AW**
    2. Device Architecture
       1. Baffle: Fiber reinforced polypropylene
       2. Grille:
          1. Electroplated and powder coated steel, paintable.
          2. Magnetically held bezel design.
       3. Mounting:
          1. Tool-less bayonet mounting system.
          2. Cutout diameter: 8.75 inches (222 mm).
       4. Environmental Operating Conditions:
          1. Temperature: 4° to 176°F (-15.5° to 80°C)
          2. Humidity: 10% to 90% RH (non-condensing)

For indoor use only

* + - * 1. IP66 rated for water
      1. Optional Accessories:
         1. Flush mount kit
         2. Pre-construction mounting kit
         3. New construction template
         4. Fire rated back box
      2. Termination:
         1. Two (2) Gold-plated spring terminals
         2. Maximum wire size: 10 AWG (6 mm^2)
      3. Dimensions:
         1. Diameter without grille: 9.61 in. (244 mm)
         2. Depth: 4.72 in. (109 mm)
         3. Round Grille: 10.20 in. (259 mm)
      4. Weight: 5 lb. (2.26 kg)
      5. Drivers:
         1. 8-inch (203 mm) carbon fiber woofer
    1. Functions
       1. Low-Pass Filter: 150 Hz and above, Custom 2nd order
       2. Impedance: 8 Ω nominal
       3. Frequency Response: 45 Hz to 150 Hz (± 3 dB)
       4. Frequency Range: 35 Hz to 175 Hz (± 10 dB)
       5. Power Handling
          1. Program: 200 W
          2. Peak: 400 W
       6. Sensitivity: 86 dB at 1 W / 1 m
    2. Compliance
       1. CE
       2. RoHs
       3. FCC Part 15 Class B digital device
       4. Regulatory Model M202046009

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 ULTIMATE IC6
      2. Crestron ULTIMATE IC6-AW
      3. Crestron ULTIMATE IC8-AW
      4. Crestron ULTIMATE IC8-DT-AW
      5. Crestron ULTIMATE ICS8-AW