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