# INTEGRATED HOME MARKET ANALYSIS - 2021

POWERED BY CEDIA

US Analysis Summary
April 2022

# Agenda

### INTEGRATED HOME MARKET ANALYSIS - 2021

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Objectives and Approach

Key Findings Market Size

Market Segmentation Voice of the Integrator

Brand Rankings ANCRAGE CONSULTING
Experience, Value, Results

**BUTLER** 

LACY SCHOOL of BUSINESS

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Q&A

# **Objectives**

## INTEGRATED HOME MARKET ANALYSIS - 2021

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#### You Spoke. We listened to Your Priorities:

- ✓ Size of Integrated Home Industry by revenue and number of companies
- ✓ Areas of Expenditure where integrators are allocating investment by category / where customers are allocating home improvement budgets
- ✓ Preferred Brands by Category
- ✓ Typical Project Size
- ✓ Typical # of Projects per Year
- ✓ % Residential / Commercial

# **Approach**

### INTEGRATED HOME MARKET ANALYSIS - 2021

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#### **Summer 2021:**

- Market assessment to clarify objectives for this research
- "Expert Interviews" on topic of market size with 19 leading US Manufacturers and Distributors across all integrated home categories
- Survey rebranding & design updates (shortened to 15 mins from 1 hour)

New activities to optimize 'Size & Scope' study value for CEDIA Members

#### Fall-Winter 2021-22:

- Survey fielding in US and UK markets
- Market sizing analysis
- Survey data analysis

#### Spring 2022:

Results & information sharing begins

# "Need to Knows"

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- 1. Increased confidence in market sizing estimates
  - Framed by estimates from CEDIA + 19 market leaders
- 2. Unlike other industry research, survey participants are strongly vetted
  - Integrators based in the US
  - Only business decision makers qualify
  - Minimum of 20% revenue in residential & minimum of 3 residential projects completed in last 12 months
  - One response allowed per company (important for market sizing analysis)
  - 80 responses gathered from US integrators
- 3. Top brand rankings are designated based on products specified by integrators, not hearsay
- 4. A note about timeframes:
  - To improve the timeliness and accuracy of estimates, integrators were asked about revenue over the <u>last 12 months</u> (effectively, Fall 2020-Fall 2021) and the <u>next 12 months</u> (Winter 2021-Winter 2022)
  - We refer to the prior 12 month estimates as "2021" and the future 12 months as "2022" for ease of reporting

# **Market Analysis Partners**

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**Key Findings** 

# **Key Findings**

### INTEGRATED HOME MARKET ANALYSIS - 2021

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#### Market Size:

- Approximately 11,000 integrator companies operating in the US
- Average annual revenue of \$2.2M
- Average project size: \$26K
- Estimated current US market size: \$20.1B
- Bullish industry growth projections for the next 12 months

#### Market Segmentation:

- On average, 83% of revenue is from residential projects
- Number of employees commonly varies from 2 to 20 (avg: 11)
- Number of projects varies broadly by company size (avg: 70)
- 81% anticipate adding a technical resource in the next 12 months



# **Key Findings**

### **INTEGRATED HOME MARKET ANALYSIS - 2021**

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#### Voice of the Integrator:

- Growth areas are lighting/shading, lighting control and networking
- Less distributed video/matrix setup (continued shift to streaming)
- DIY trend continues to put pressure on this market
- Trend toward 'simpler' solutions

#### **Brand Rankings:**

Brands most often specified and installed by integrators



































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**US Market Size** 

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#### # of US Integrator Companies

Market size estimates from CEDIA + 19 market leaders



#### Residential Revenue

Revenue information collected via survey from 80 vetted US integrators





US Residential Integrator Market Size

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#### # of US Integrator Companies

Market size estimates from CEDIA + 19 market leaders

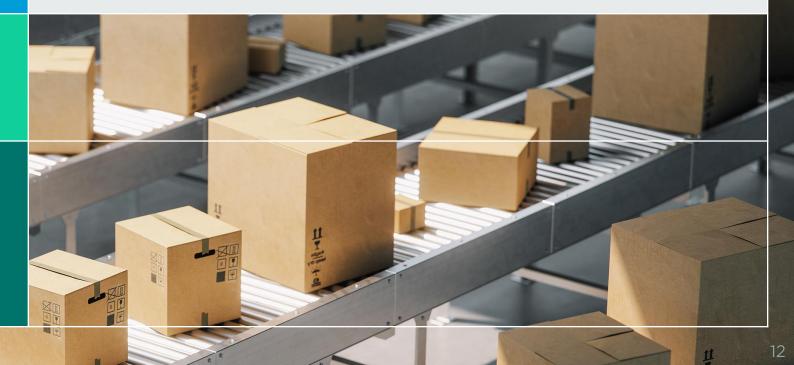
Residential Revenue

Revenue information collected via survey from 80 vetted US integrators



US Residential Integrator Market Size

• Based on feedback from manufacture and distribution business leaders closely involved in this market, we identified ~11,000 home technology integrator companies in the US market.



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#### # of US Integrator Companies

Market size estimates from CEDIA + 19 market leaders

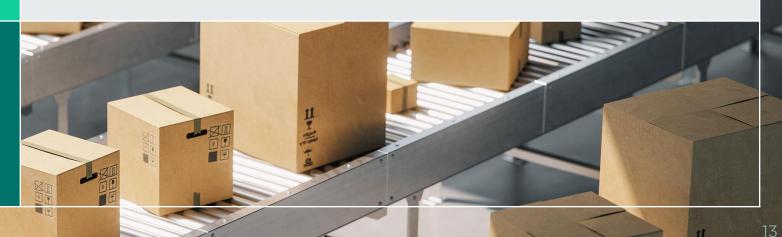
#### Residential Revenue

Revenue information collected via survey from 80 vetted US integrators

- Based on feedback from manufacture and distribution business leaders closely involved in this market, we identified ~11,000 home technology integrator companies in the US market.
- Average integrator revenue over last 12 months: \$2.2M
- % of Revenue that is Residential in nature: 83%
- Average project size: \$26K



US Residential Integrator Market Size



### INTEGRATED HOME MARKET ANALYSIS - 2021

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#### # of US Integrator Companies

Market size estimates from CEDIA + 19 market leaders

#### Residential Revenue

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- Average integrator revenue over last 12 months: \$2.2M
- % of Revenue that is Residential in nature: 83%
- Average project size: \$26K



Current US Market Size: \$20.1B Estimated for Next 12 Months: \$22.7B

Market Size is estimated based on assumptions founded on integrator research and expert perspective from industry leaders

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✓ US Integrated
Home market size
is estimated to
have grown from
\$12.3B in 2012 to
\$20.1B in 2021

#### US Residential Market Size Estimates: 2012 to 2022



US Residential Integrated Home Market Size (in Billions)

### INTEGRATED HOME MARKET ANALYSIS - 2021

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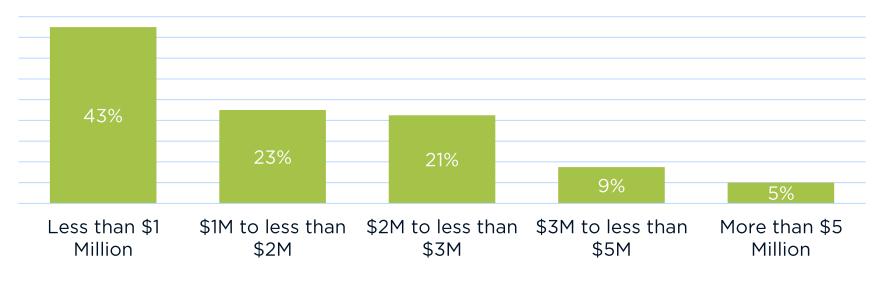


✓ While the average company size is \$2.2M, there are many smaller-sized integrators (<\$1M in revenue) serving this market as well</p>

#### US Integrator Company Size

Average Annual Revenue	\$2.2 Million
Median Annual Revenue	\$1.1 Million

#### US Integrator Company Size Breakdown



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✓ Average integrator company size is largely consistent over time (as is # of employees, shown later)

#### Average US Integrator Company Size: 2014 to 2021



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- ✓ Average
   residential
   project size has
   decreased
   slightly over time
- ✓ Number of projects (shown later) has been increasing

#### Average US Integrator Project Size: 2014 to 2021



\*Average Project Size Calculation = Average Revenue X % of Residential Revenue / Average # of Projects

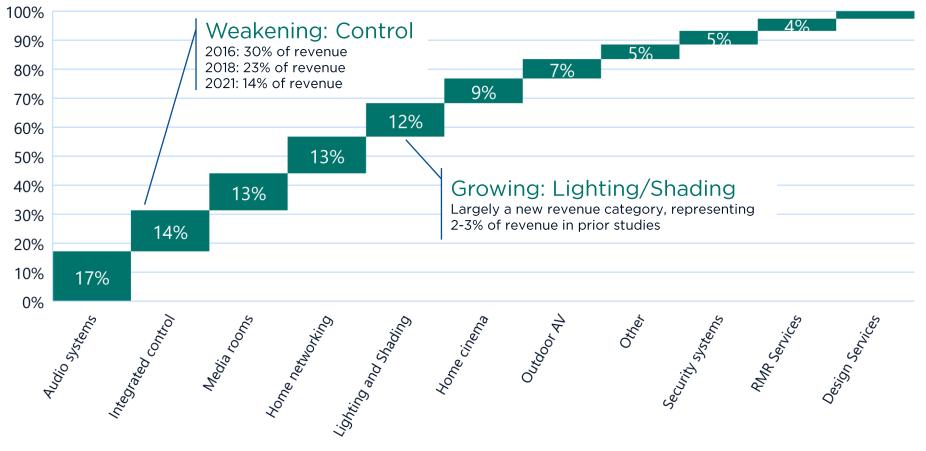
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- ✓ Audio systems contribute the largest percentage of revenue for US integrators
- ✓ Lighting/shading category is growing, while control systems weakens in its share of revenue for integrators

#### % of Company's Total Residential Revenue over last 12 months



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- ✓ Audio systems category is estimated at \$3.5 billion annually
- ✓ Design and RMR contribute a very small share of revenue many are missing out on this predictable, service-based revenue stream

Category	Estimated Current Market Size
Audio systems (distributed audio, dedicated listening room)	\$3.5 B
Integrated control systems	\$2.8 B
Media rooms	\$2.6 B
Home networking	\$2.5 B
Lighting and Shading	\$2.3 B
Dedicated home cinema	\$1.7 B
Outdoor AV entertainment systems	\$1.3 B
Other	\$1.0 B
Security systems (Alarms/surveillance/access control)	\$934 M
Recurring Monthly Revenue (RMR) Services	\$849 M
Design Services	\$528 M
FORECASTED CURRENT MARKET SIZE	\$20.1 B

# **Growth Forecast**

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- ✓ Most projects include networking
- ✓ Growth forecasts are strongest for Lighting/Shading and Lighting Control segments in the US market

Avg # of Projects (among those that participate in the category)	Last 12 Months	Next 12 Months	Anticipated Growth %
Home Networking	51	61	20%
Audio Systems	38	46	21%
Integrated Control Systems	31	37	19%
Media Rooms	27	33	22%
Security Systems	21	25	20%
Outdoor A/V Systems	20	25	25%
Lighting Control Systems	18	25	39%
Lighting/Shading	18	24	34%
Dedicated Home Cinema	9	11	23%
Overall # of Projects per Year	70	84	20%

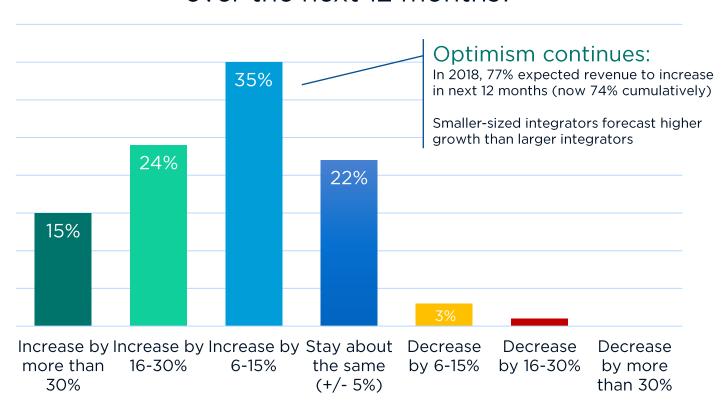
Today's largest revenue contributor is expected to continue growing

# **Growth Forecast**

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# How do you expect revenue to change over the next 12 months?



### 2020-21 Integrator **Revenue Growth Forecast** by Company Size Large-sized Integrators 10% (\$3M+ in Revenue) Medium-sized Integrators 20% (\$1-3M in Revenue) Small-sized Integrators 32% (< \$1M in Revenue)

# **Growth & Resources**

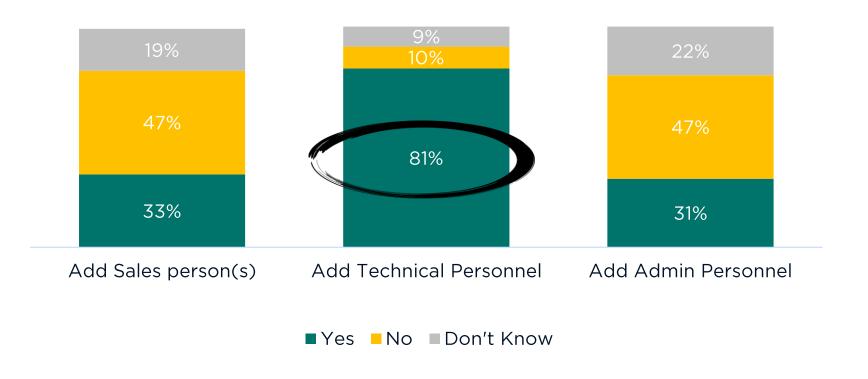
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- ✓ Most integrators anticipate adding a technical resource in the next 12 months
- ✓ One-third anticipate adding to sales and/or admin teams as well

Do you anticipate that your company will grow in the next 12 months to the extent that you will add the following resources?...



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**Market Segmentation** 

# **Integrator Profile**

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93% of the companies responding are System Integrator / AV Installer companies

(3% are electrical contractors, 3% cable/satellite/ aerial installers)



Long Tenure: 76% have been in business 10+ years

(13% have been in business less than 5 years)



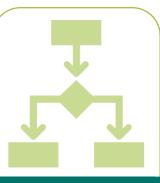
Most
commonly
service luxury
(79%) and
mid-market
(40%)
customers

(17% serve Uberluxury market, 6% serve Mass market)



On average, 83% of revenue is from residential projects, up from 77% in 2018

(Potential COVIDimpact of home investment)



All research participants are purchase decision makers for their business

(60% are the sole decision maker for their business)



Threequarters of responses are from CEDIA members

(One-fourth of responses are from non-CEDIA members)

# Residential Focus

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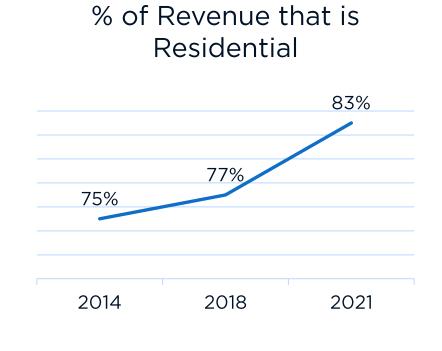
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On average, 83% of revenue is from residential projects, up from 77% in 2018

(Potential COVIDimpact of home investment)

#### **Trending Over Time**



"During the stay-at-home portion of the pandemic, customers had plenty of time to decide where to spend money on their home technology."

"More focus on better networks and better entertainment within the home as people have spent more time at home."

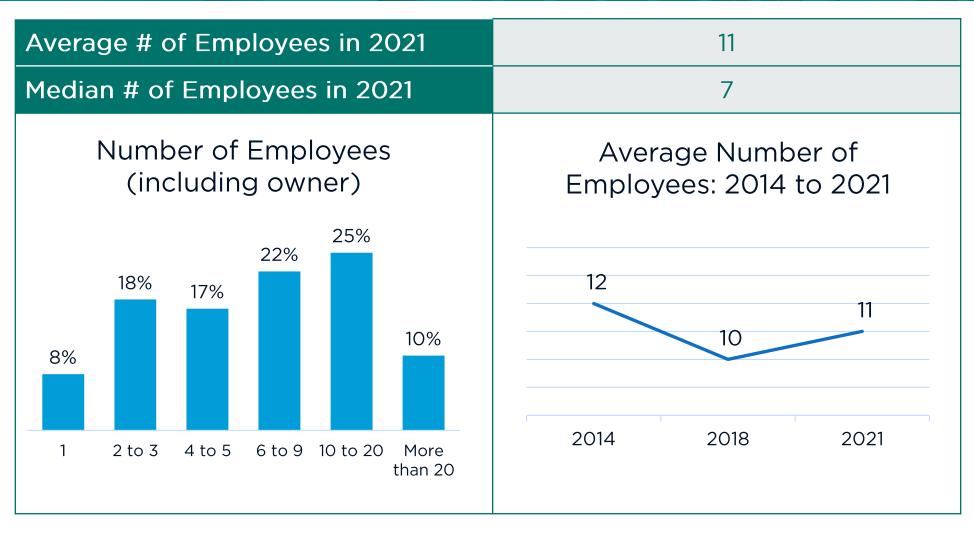
# Company Size & Scope

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- ✓ While company size varies considerably, the average US integrator has 11 employees
- Average number of employees has remained similar over time



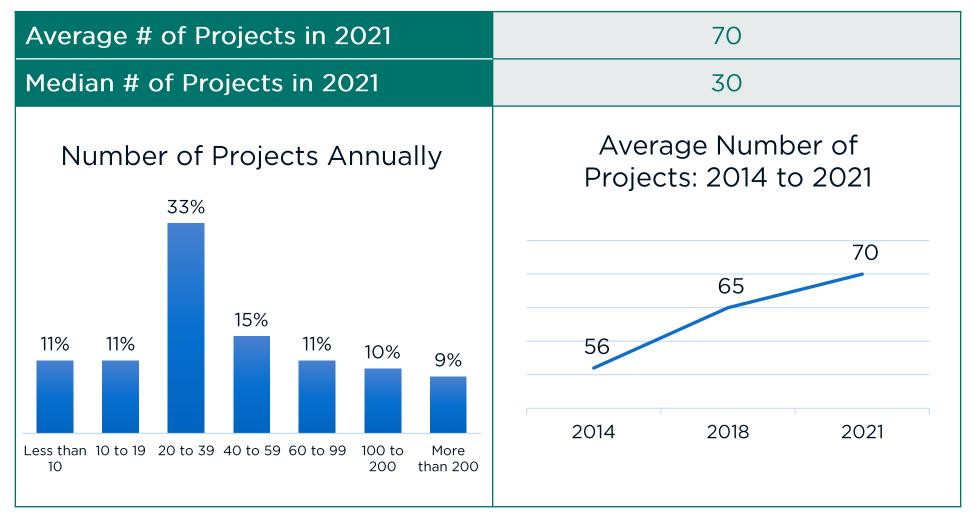
# **Company Size & Scope**

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- ✓ Number of projects per year varies considerably in this industry
- ✓ Average number of projects has grown over time, despite no significant change in average company revenue or # of employees



# **Company Size & Scope**

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✓ Larger integrators are doing more projects per year and also largersized projects, on average

Average # of Employees	11
Median # of Employees	7

Average # of Projects	70
Median # of Projects	30

# of Employees (including owner)	Average # of Projects in last 12 months	Average Revenue in last 12 months	Average Project Size*	
1	30	\$340K		
2 to 3	25	\$390K	~\$10-15K	
4 to 5	48	\$900K		
6 to 9	60	\$1.7M	~\$20-25K	
10 to 20	93	\$2.3M	~\$20-25K	
More than 20	163	\$9.4M	~\$50K	

<sup>\*</sup>Average Project Size Calculation =

Average Revenue X
83% (% of Residential Revenue on average for all integrators combined) /

Average # of Projects

# **Workforce Size**

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# of US Integrator Companies

~11,000



# of Employees Per Company

Mean: 11 employees

Estimated 2021 Workforce Size

~120,000

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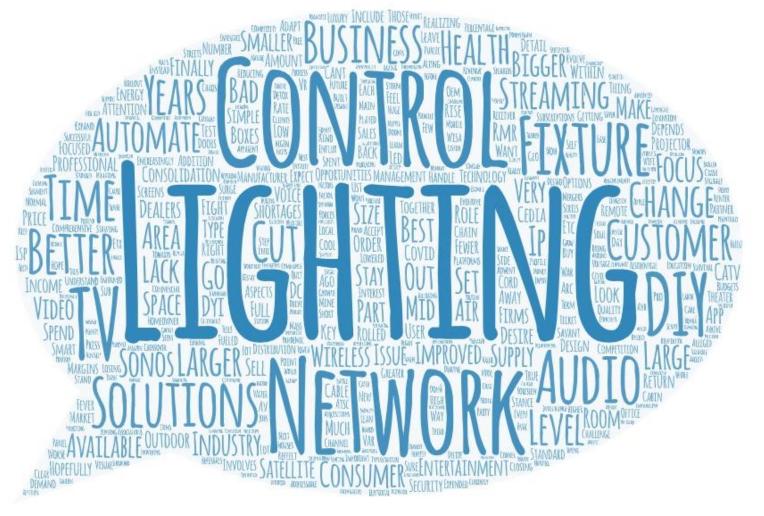
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Voice of the Integrator

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From your vantage point as an integrator, what changes do you see coming over the next few years?



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From your vantage point as an integrator, what changes do you see coming over the next few years?

"I see the advent and influx of low voltage lighting fixtures and systems changing how the system integrator involves himself in the high-end lighting industry, not only taking responsibility for controlling the lighting within a space, but also specifying, procuring, prewiring infrastructure, and installing the fixtures. Essentially, taking a more comprehensive role in the lighting system."

"Large focus on lighting control, fixtures and health & wellness products."

"The willingness of consumers to accept the costs of a properly designed and installed home network." "More and more homeowners will "cut the cord" and go to "streaming-only" subscriptions (such as YouTube TV, Hulu TV, etc.), as opposed to CATV/Satellite subscriptions."

"Whole-home control systems and "smart" systems will continue to increase in demand."

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From your vantage point as an integrator, what changes do you see coming over the next few years?

#### MORE OF...

- Lighting control and fixtures
- Networking
- Wellness
- Larger TVs
- Service/RMR focus

#### LESS OF...

Less Distributed
 Video/Matrix setup
 (shift to streaming)

#### Integration/Control

Some expect growth and others predict less focus on integration. They talk about the rise in products becoming self-discoverable by consumers.

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From your vantage point as an integrator, what changes do you see coming over the next few years?

"I have found that DIY products have taken over a lot of the smaller integration projects, thus impacting income for smaller companies. Dealers and integrators need to get more involved with luxury systems/devices to integrate into more "financially successful" individuals' homes to keep up with the ever-changing market, however these changes need to be backed by education."

"Battle over IoT and the DYI mindset. Manufacturer partners continue to dismiss the value in small companies by raising quotas, minimums for free freight, and allocations to larger dealers."

"Greater degree of automatic product discovery & integration into automation systems such as Savant, Crestron, Control 4, less configuration for the integrator."

"More apparent control by customer. Less complexity."

"More houses being built having/needing some kind of system as a standard."

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From your vantage point as an integrator, what changes do you see coming over the next few years?

#### **TRENDS**

- DIY trend continues
- SIMPLER solutions
- Consolidation in manufacturers and perhaps within integrator community as well
- Labor shortage issues expected to continue
- Split vote on whether supply chain issues will improve over next year or not

#### FOOD FOR THOUGHT

(less frequent mentions)

- Energy management
- SaaS model for home technology
- Voice control
- 5G
- Outdoor
- Shading
- Geofencing
- Simulators / VR
- New construction opportunities

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**Brand Rankings** 

## **Brand Influence**

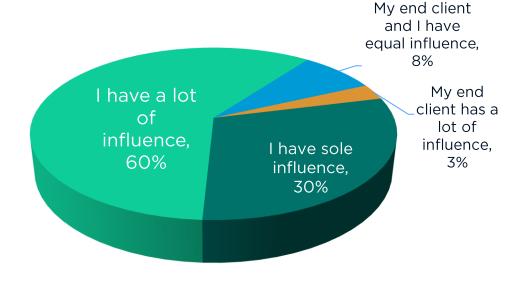
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- ✓ Integrators play a dominant role in brand selection, with 60% saying they have "a lot" of influence and 30% with "sole influence"
- ✓ Integrators
  provide brand
  recommendations
  to many luxurylevel clients

## Integrator Influence on Products Selection



Note: Nobody responded that the client has "sole influence" on product selection

#### Markets Served



## **Category Participation**

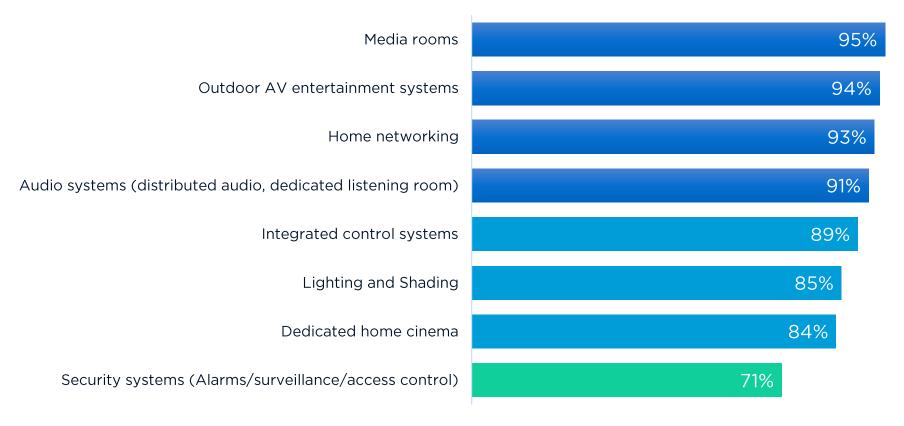
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✓ US integrators work within a broad spectrum of home technology categories

# Residential Installs Self-Performed in Last 12 Months (% participating in each category)



## **Home Networking**

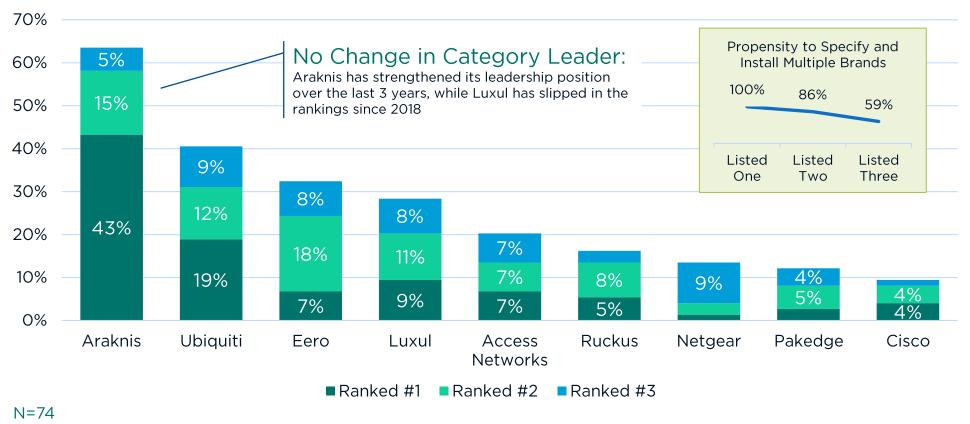
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- ✓ Araknis is the most specified home networking brand, with 43% ranking as #1 and two-thirds placing in their top-3
- ✓ That said, most integrators use multiple brands and other leaders include Ubiquiti, Eero and Luxul

What are your company's most specified and installed brands for home networking equipment?



## **Control Systems**

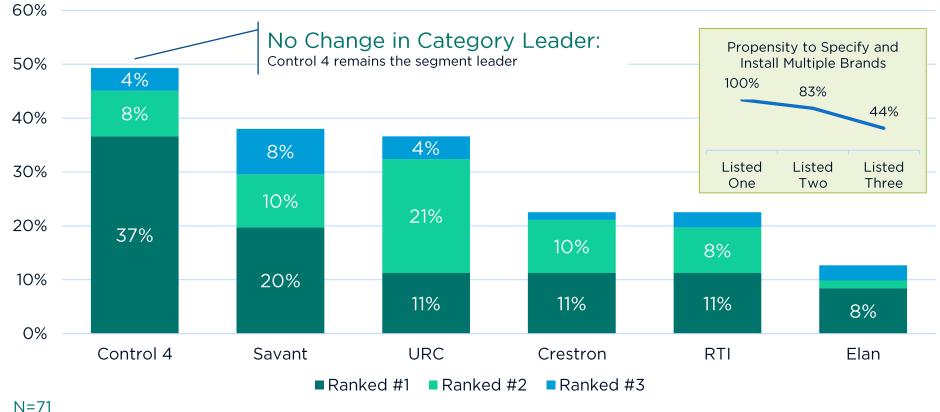
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- ✓ Control 4 is ranked as the #1 most specified and installed brand by 37% and is placed in the top 3 by half of integrators
- Many integrators
   only use one or
   two brands in this
   category

What are your company's most specified and installed brands for whole-house integrated control systems?



Other write-ins: Lutron (10% mentioned), Josh.ai (7% mentioned)

# Whole-House Integrated System Installations

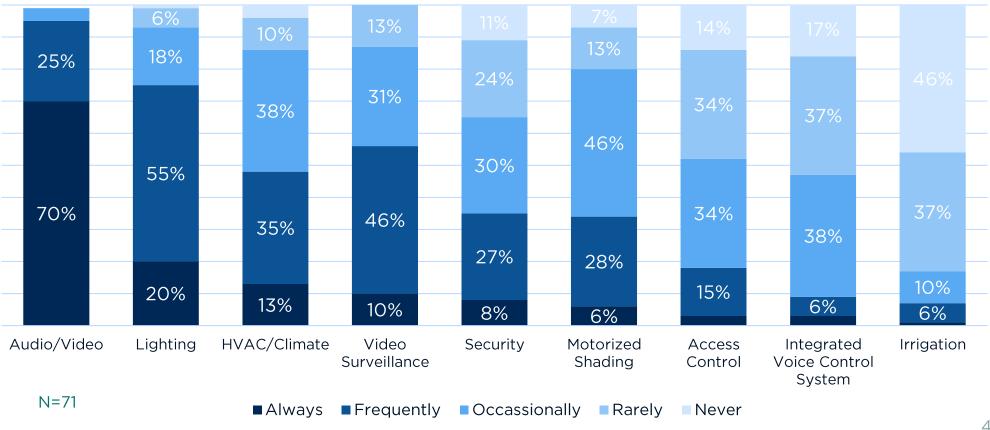
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- ✓ Control system installations frequently include A/V and lighting
- ✓ Roughly half say that installs frequently include HVAC and Video Surveillance
- ✓ Irrigation and voice control components are rare

Of the whole-house system installations completed over the last 12 months, how frequently were the following included...



## **Lighting Control Systems**

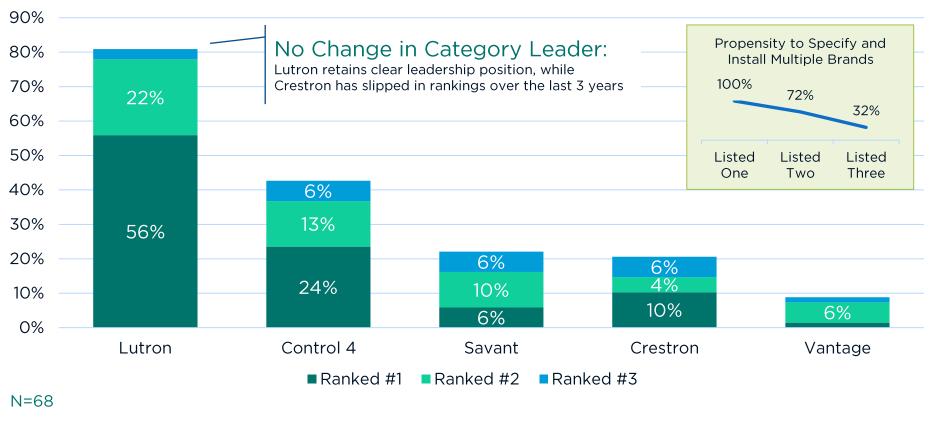
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- ✓ Lutron is the top brand specified and installed for lighting control
- Many integrators only use one or two brands in this category

## What are your company's most specified and installed brands for lighting control systems?



# **Shading and Motorized Window Treatments**

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- ✓ Lutron is the most specified brand for shading/ motorized window treatments, by a wide margin
- Many integrators
   only use one or
   two brands in this
   category

What are your company's most specified and installed brands for shading/motorized window treatments?



## Audio Electronics (Amp, Receiver)

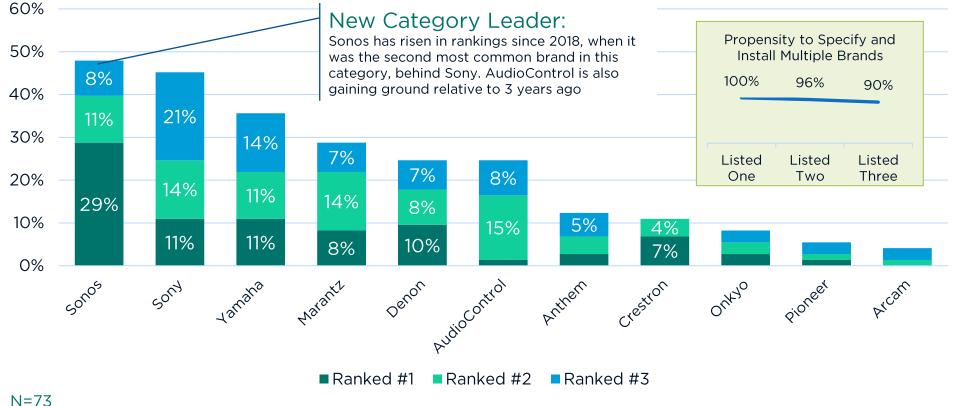
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- ✓ Sonos is the most specified brand in this category
- ✓ Sony, Yamaha Marantz and Denon are also commonly specified
- Most integrators use 3 or more brands in this category

What are your company's most specified and installed brands for audio electronics (amplifier / receiver)?



Other write-ins: Triad (5% mentioned), Savant (5% mentioned)

## **Audio Distribution and Audio Control**

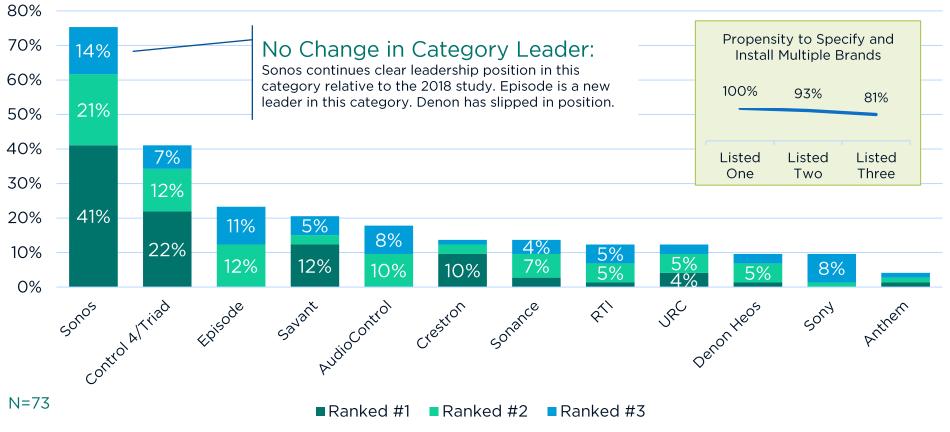
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- ✓ Sonos is the most specified brand for Audio Distribution and Control
- ✓ Most integrators use at least 3 brands in this category

What are your company's most specified and installed brands for audio distribution / audio control?



## **Audio Speakers**

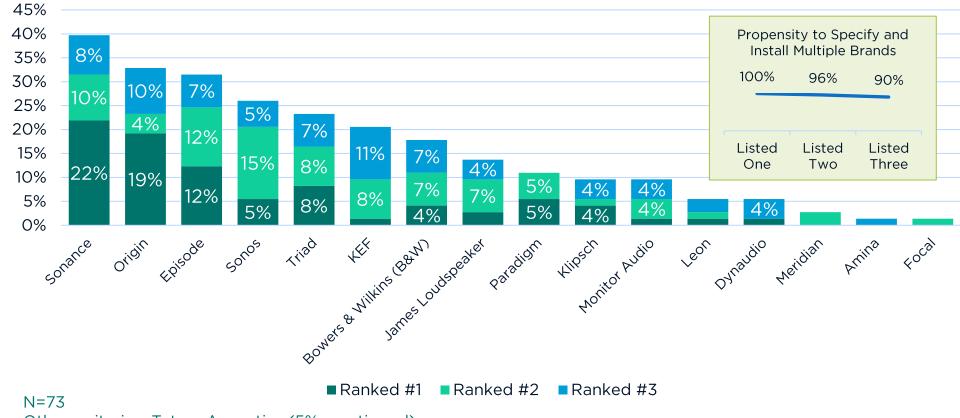
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- ✓ This crowded category is led by Sonance, Origin and Episode
- ✓ Most integrators use 3 or more brands of audio speakers

## What are your company's most specified and installed brands for speakers?



## **Voice-Enabled Speakers**

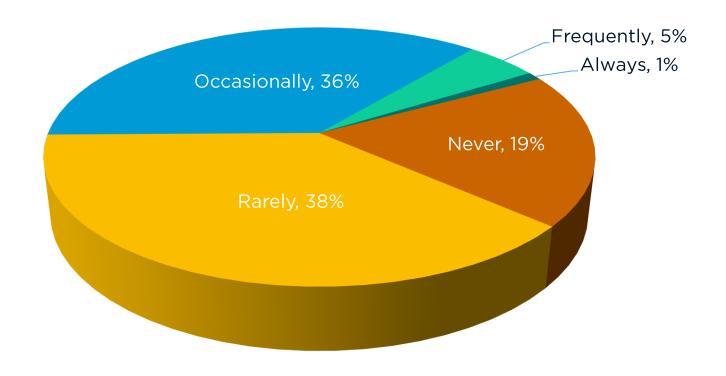
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- ✓ Voice is not strongly adopted in the US integrator market
- ✓ Only 6% say that they commonly include voice enabled speakers
- ✓ Over half say rarely or never

Thinking of the homes where you installed audio systems, how frequently was a voice-enabled speaker included?



## **Video Distribution**

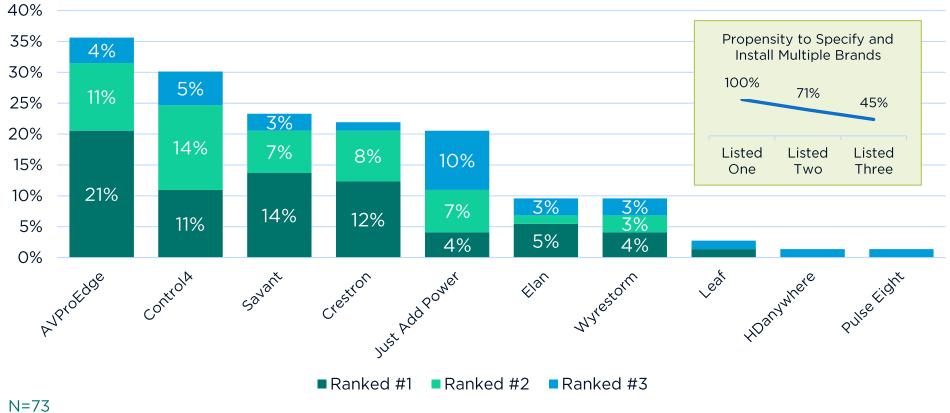
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- ✓ AVProEdge is the most commonly specified video distribution brand
- ✓ Binary was written in as an "other response" by 25% of integrators
- ✓ Half only use 1 or 2 brands in this category

What are your company's most specified and installed brands for video distribution systems?



## **Media Room Speakers**

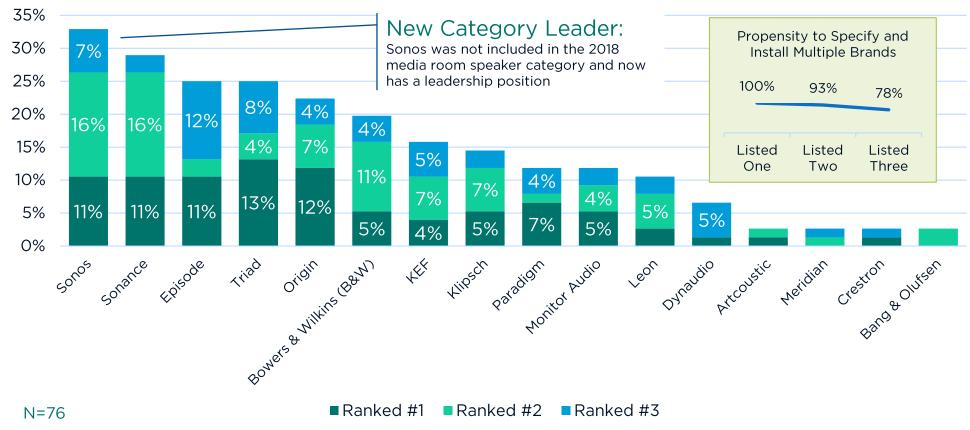
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- ✓ This crowded category is led by Sonos, Sonance, Episode, Triad and Origin
- Most integrators specify at least 3 brands in this category

What are your company's most specified and installed brands for speakers to accompany a media room system?



## Media Room Flat Panel Displays

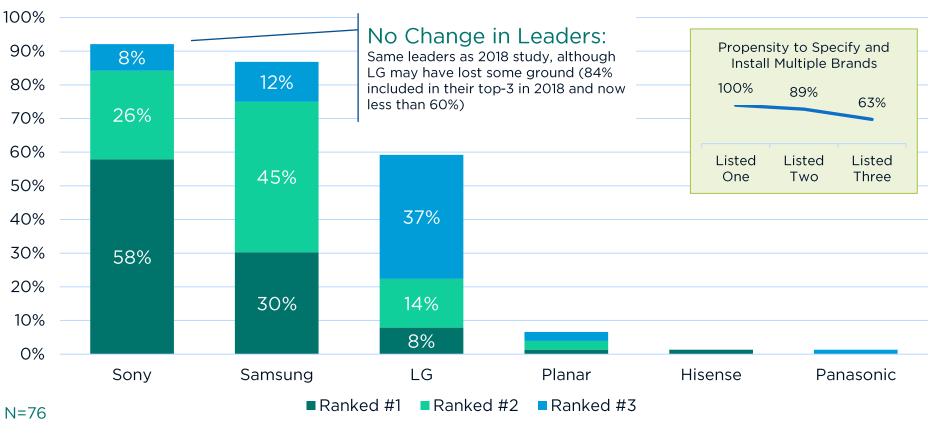
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- ✓ 58% rank Sony as their #1 most specified media room flat panel display brand and 90% put in their top-3
- ✓ Samsung and LG are also clear category leaders
- ✓ Most integrators specify all 3 brands

What are your company's most specified and installed brands for flat panel displays for media room jobs?



## Dedicated Home Cinema Speakers

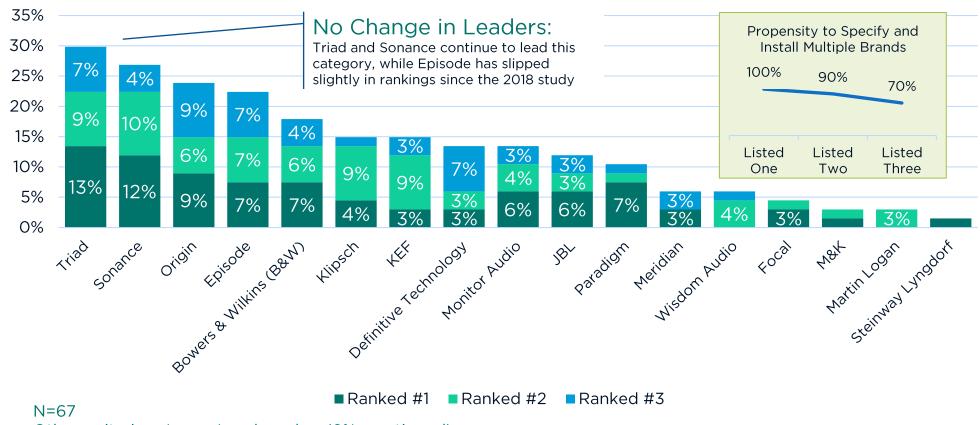
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- ✓ The crowded home cinema speaker category is led by Triad, Sonance, Origin and Episode
- Most integrators specify at least 3 brands in this category

What are your company's most specified and installed brands for speakers to accompany a home cinema system?



# Dedicated Home Cinema Front Projectors

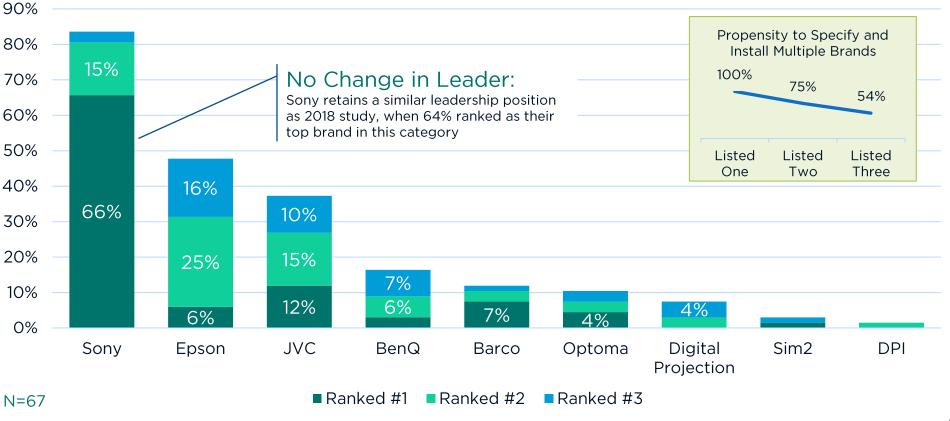
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- ✓ Sony is the clear leader for home cinema front projectors, with two-thirds ranking as #1 most specified
- ✓ Half of integrators only use 1 or 2 brands in this category

What are your company's most specified and installed brands for front projectors on home cinema jobs?



## Dedicated Home Cinema Projector Screens

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- ✓ Screen
  Innovations is the most specified and installed home cinema projector screen brand
- ✓ Half of integrators only use 1 or 2 brands in this category

What are your company's most specified and installed brands for projector screens on home cinema jobs?



## Dedicated Home Cinema Audio Processors/Amps

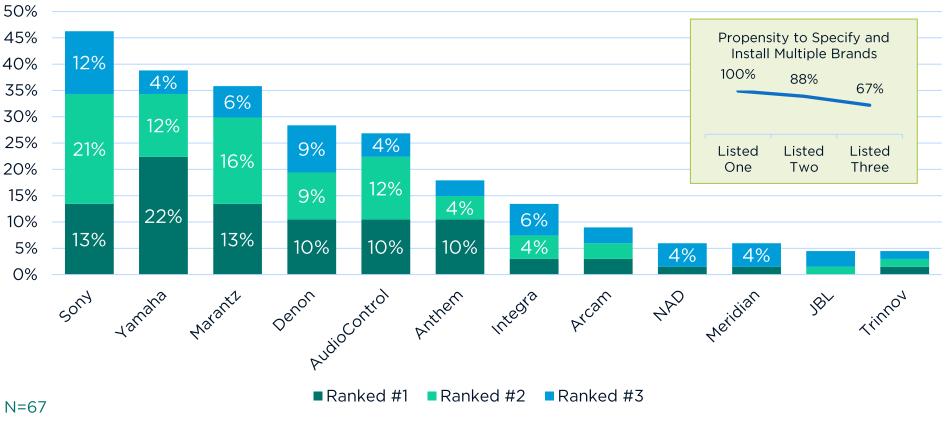
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- ✓ Sony, Yamaha and Marantz are the most specified brands for home cinema audio processors/amps
- Most integrators specify at least 3 brands in this category

What are your company's most specified and installed brands for audio processors/amplifiers?



## **Home Security**

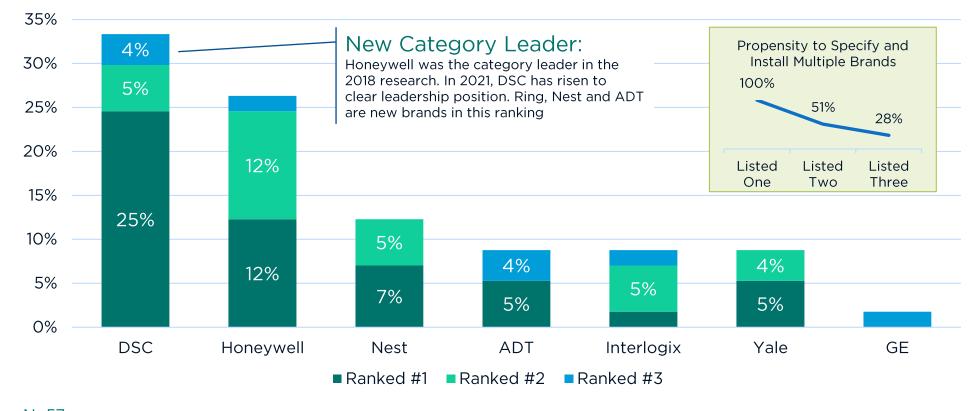
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- ✓ DSC and Honeywell are the market leaders for Home Security
- ✓ Ring was written in as an "other response" by 18% of integrators
- ✓ Half of integrators only use 1 brand in this category

What are your company's most specified and installed brands for home security systems?



N=57 Other write-ins: Ring (18% mentioned), Elk (14%), Qolsys (9%), 2GIG (9%), Clare (7%)

## **Outdoor Entertainment**

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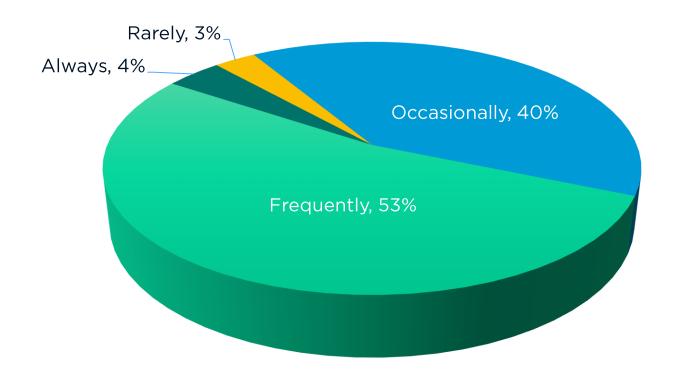
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- ✓ Most integrators participating in this research said they install outdoor solutions
- √ 57% say their projects "always" or "frequently" includes outdoor
- ✓ Only 3% say it is rare, and nobody said "never"

Among integrators that install outdoor entertainment systems:

How frequently do your projects include some kind of outdoor solution as well?



N=75

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**Recap of Key Findings** 

## Recap: Key Findings

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#### Market Size:

- Approximately 11,000 integrator companies operating in the US
- Average annual revenue of \$2.2M
- Average project size: \$26K
- Estimated current US market size: \$20.1B
- Bullish industry growth projections for the next 12 months

### Market Segmentation:

- On average, 83% of revenue is from residential projects
- Number of employees commonly varies from 2 to 20 (avg: 11)
- Number of projects varies broadly by company size (avg: 70)
- 81% anticipate adding a technical resource in the next 12 months



## Recap: Key Findings

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### Voice of the Integrator:

- Growth areas are lighting/shading, lighting control and networking
- Less distributed video/matrix setup (continued shift to streaming)
- DIY trend continues to put pressure on this market
- Trend toward 'simpler' solutions

### **Brand Rankings:**

Brands most often specified and installed by integrators

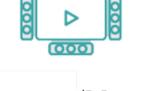
















SONY



















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Questions?

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# Thank you!

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## **UK/US Market Comparison**

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UK/US Comparison			Interpretation Notes
Estimated market size	£1.2B	\$20.1B (~£15B)	US integrator market size is ~12x larger than the UK market (note: overall country population is ~ 40x larger)
Estimated # of Integrators	3,700	11,000	US has ~3x more integrator companies than the UK
Average annual revenue	£386K	\$2.2M (~£1.7M)	Typical US integrator is ~4x the size of a UK integrator, in terms of both revenue and # of employees
Typical # of employees	3	11	
Typical % residential	86%	83%	% of residential work is similar
Typical # of projects/year	10	70	US integrators complete ~7x more projects per year
Average project size	£33K	\$26K (~£20K)	UK average project size is larger by more than 1.5x
Top-5 categories with highest annual revenue contribution	<ul> <li>Control (20%)</li> <li>Lighting/Shading (16%)</li> <li>Home Cinema (12%)</li> <li>Networking (11%)</li> <li>Audio Systems (9%)</li> </ul>	<ul> <li>Audio Systems (17%)</li> <li>Control (14%)</li> <li>Media Rooms (13%)</li> <li>Networking (13%)</li> <li>Lighting/Shading (12%)</li> </ul>	By category, largest revenue contribution comes from integrated control in the UK and audio systems in the US
% anticipating growth	80%	74%	Both markets forecast high growth rates over the next 12 months, but in different areas
Highest growth areas	<ul><li>Integrated Control</li><li>Security</li></ul>	<ul><li>Lighting/Shading</li><li>Lighting Control</li></ul>	

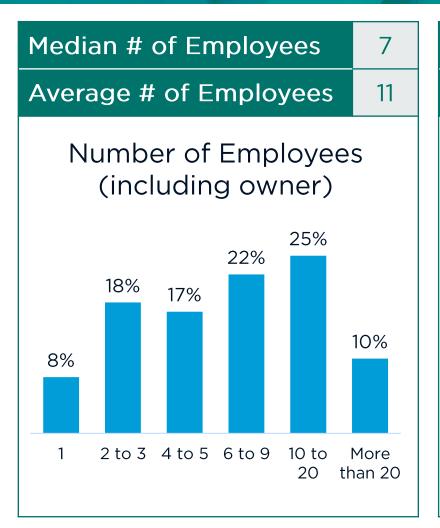
## **Company Size & Scope**

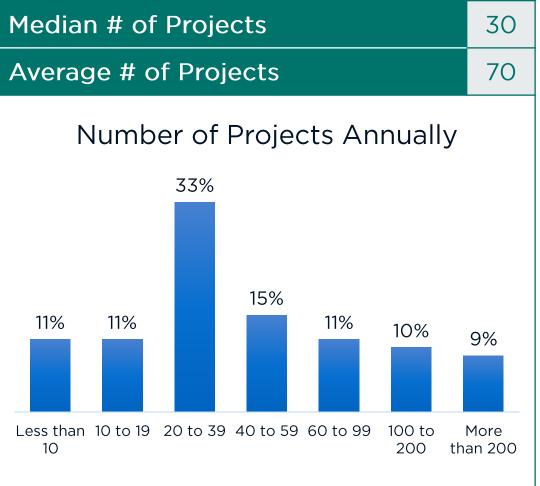
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- ✓ Average number of employees for a US integrator is 11 (similar to prior research)
- ✓ Average number of projects has grown over time from 56 in 2014, to 65 in 2018 to 70 in 2021





## Glossary of Terms

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Mean (or Average): Calculate by adding all numbers in a dataset and dividing by the number of values in the set. The mean represents the central tendency of the data and is the most common statistical measurement to summarize a dataset, but it is sensitive to outliers.

Average: Same as Mean

Median: The middle value when the data set is ordered from least to greatest. A median specifies where the center value is located in the dataset. It is useful to consider the median when the distribution of the data is skewed.