

# Designing with Crestron Home™





# What is Crestron Home™ ?

# CRESTRON HOME™

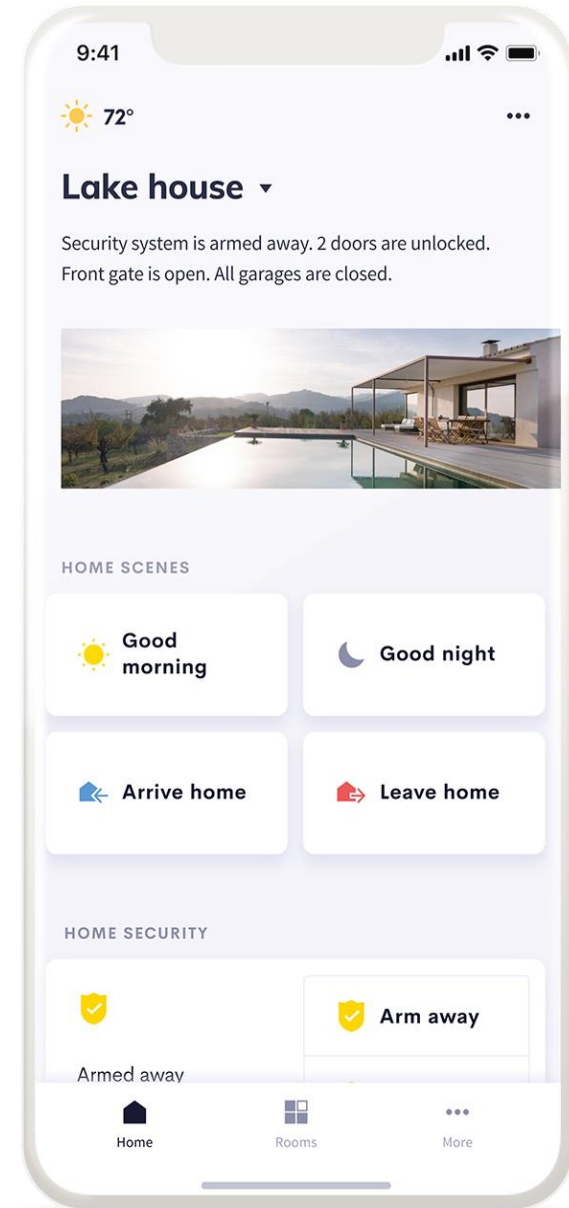
## What is Crestron Home™

Crestron Home™ unlocks the full potential of a smart home. It provides dealers with the ability to deliver a simple and clean user interface that includes sophisticated page designs; fluid dynamic room controls and icons, including support for multiple homes, favorites, custom access, room image customizations, and more.

The user experience redesigned from the ground up

Easy to configure and deploy.

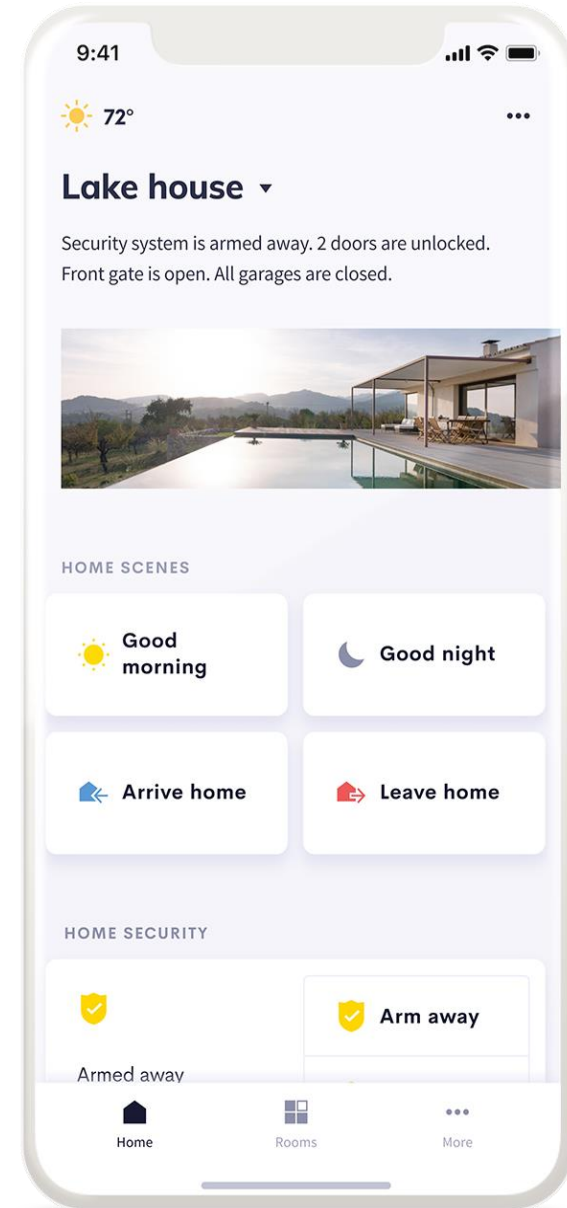
Simplified Easy-to-use User Interface that customers love.



# CRESTRON HOME™

## User Experience

Forget everything you knew about the Crestron Pyng® User-Interface and User-Experience

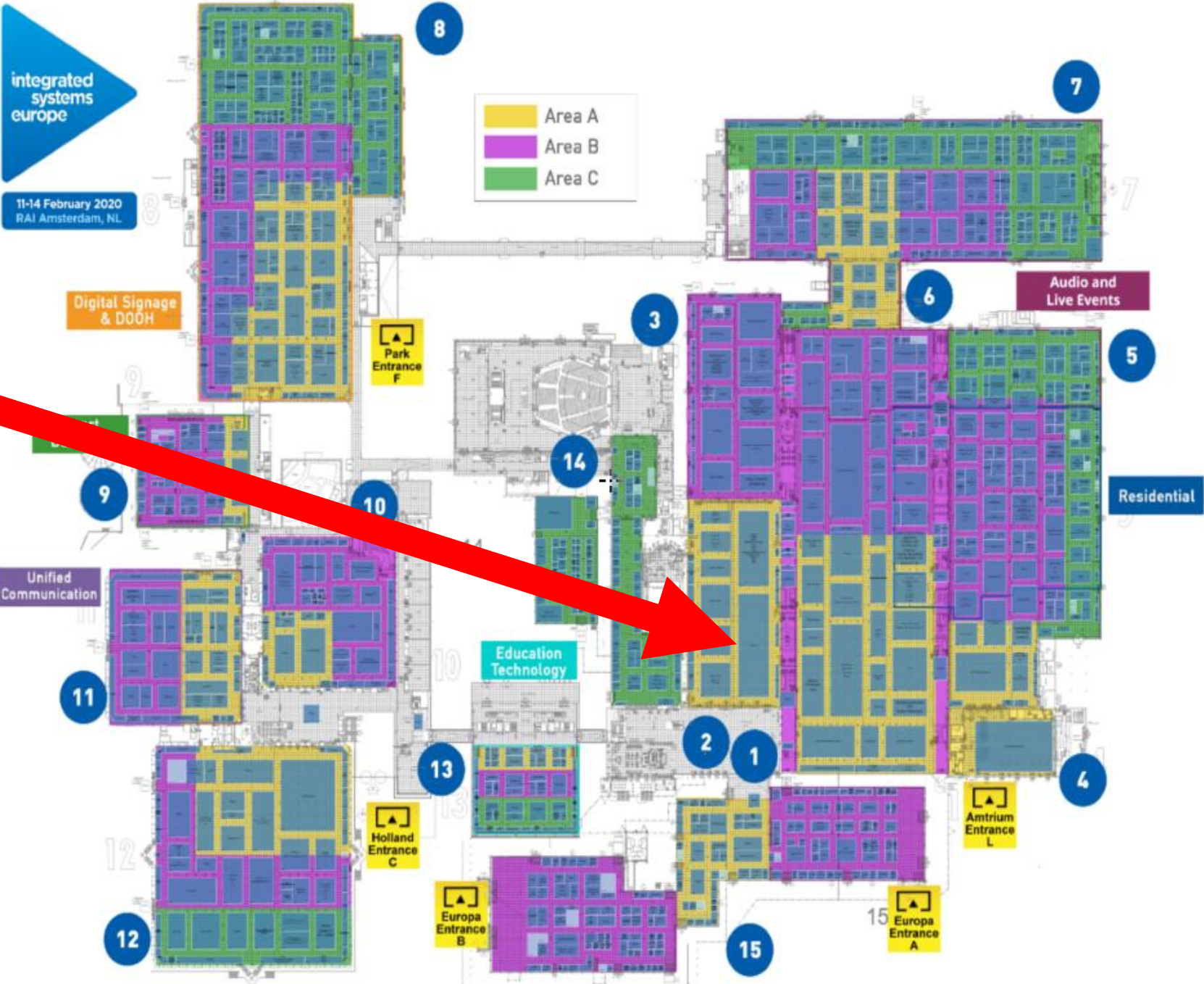




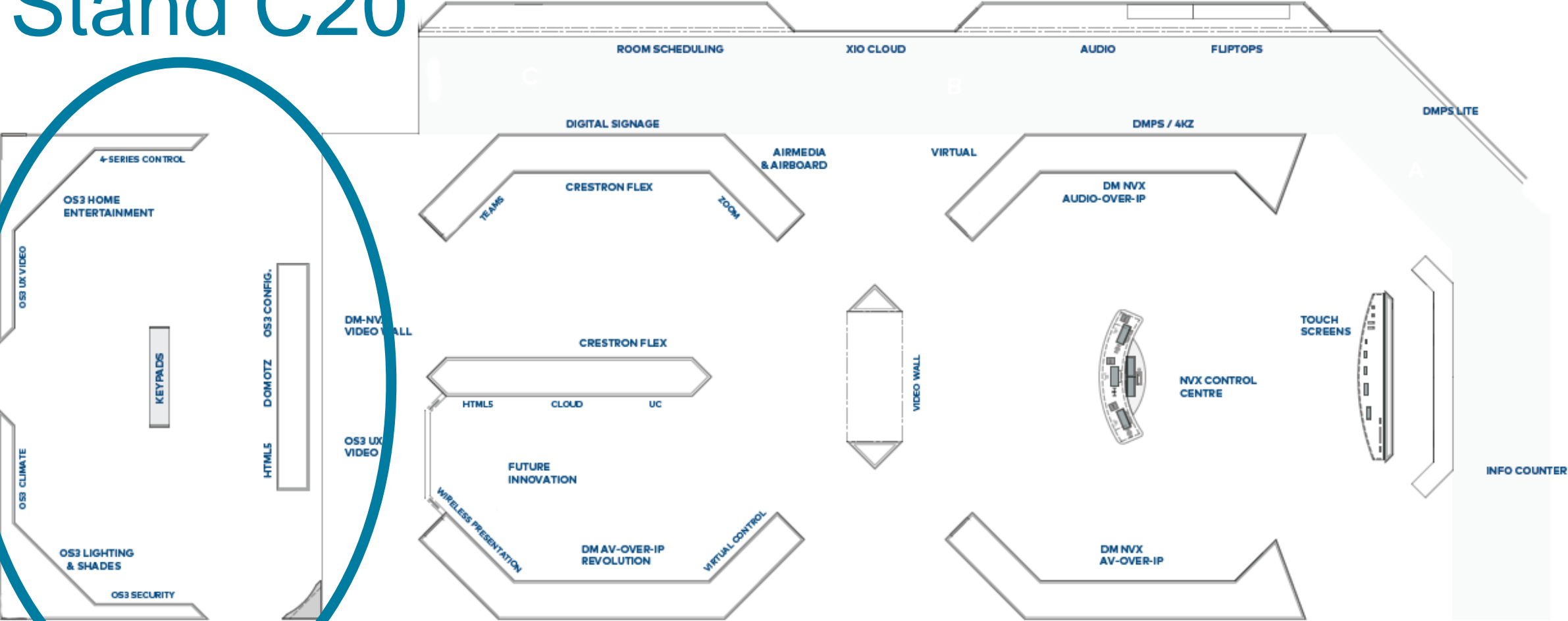
# CRESTRON HOME™

**For a Live Demo visit the  
Crestron Stand  
Hall 2 / C20**

# Hall 2 Stand C20

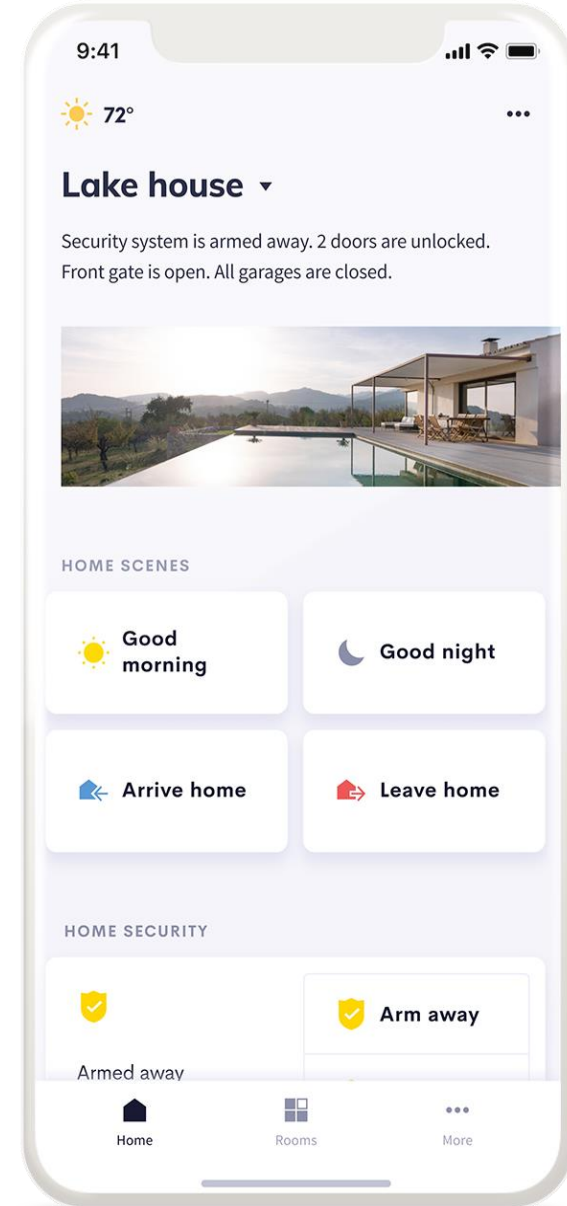


# Hall 2 Stand C20



# Let's Start by Speaking the Same Language

- There are many names and numbers flying around.
  - Crestron Pyng®
  - Crestron Home™
  - CP4-R
  - OS3
- “Pyng” has been redesigned and renamed to “Crestron Home™”
- Crestron Home™ is the new residential platform, its no longer just a product
- The new platform runs on the 4 series residential “-R” processors





---

# No one does custom like Crestron: Custom not going away

---

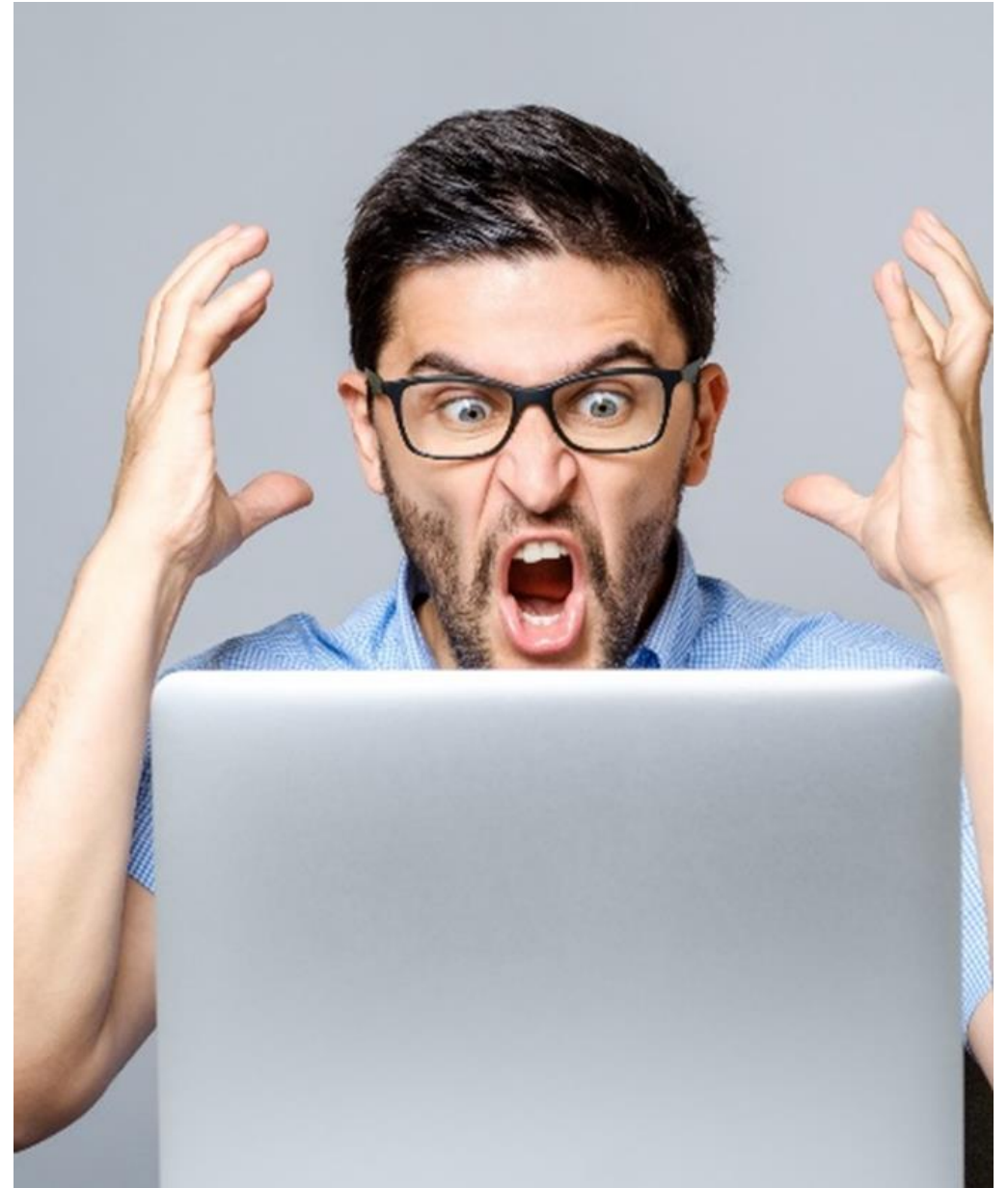


---

# Without Crestron Home™

---

- Hire or train a programmer
- Communicate system requirements
- Program / Compile / Upload
- Manually configure devices one by one
- Use Crestron Toolbox™ to send firmware to each device
- Communicate between tech and programmer
- Test every page and every button
- Punch-list and Program / Compile / Upload

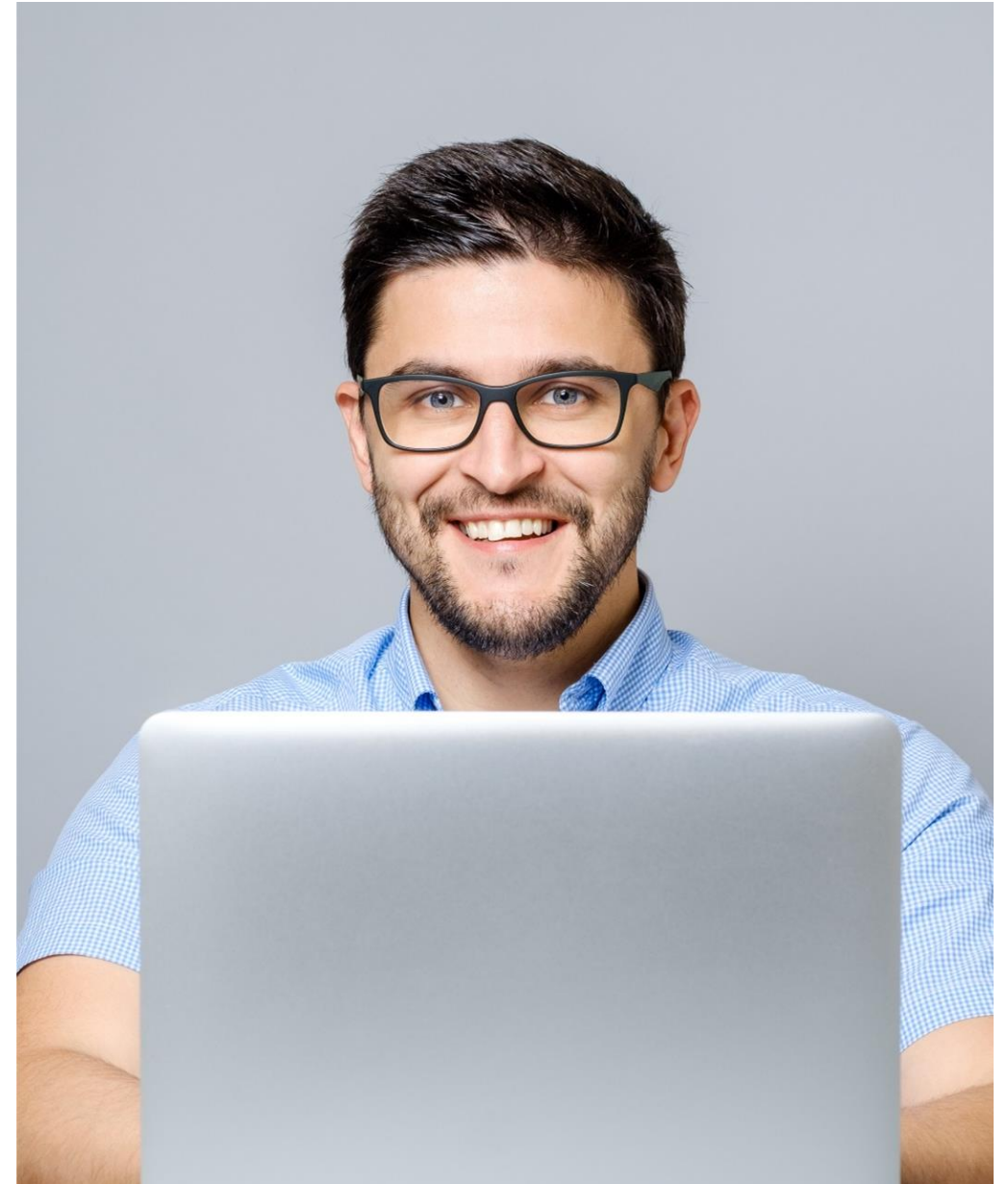


---

# WITH Crestron Home™

---

- Send any team member to site
- Crestron Home Setup App discovers most devices
- Crestron Home™ Setup App recommends firmware upgrades
- Configure, test and make changes live
- Cloud backup
- Done (get paid)





# OS 3 – Incredible Crestron UX

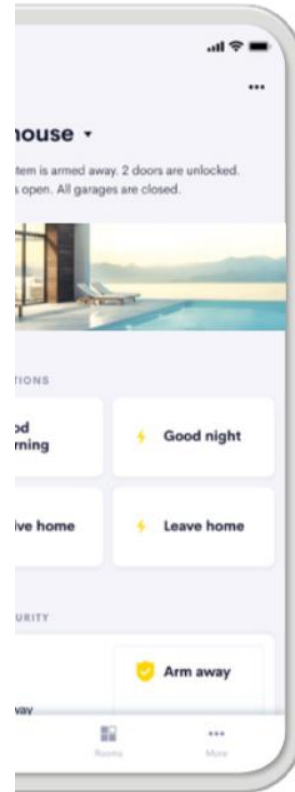


## What does an End User Expect.

- The highest quality User Experience
- Ease of use
- Reliability
- Modern features

# End User Guide

- How to guide
- Tips and tricks

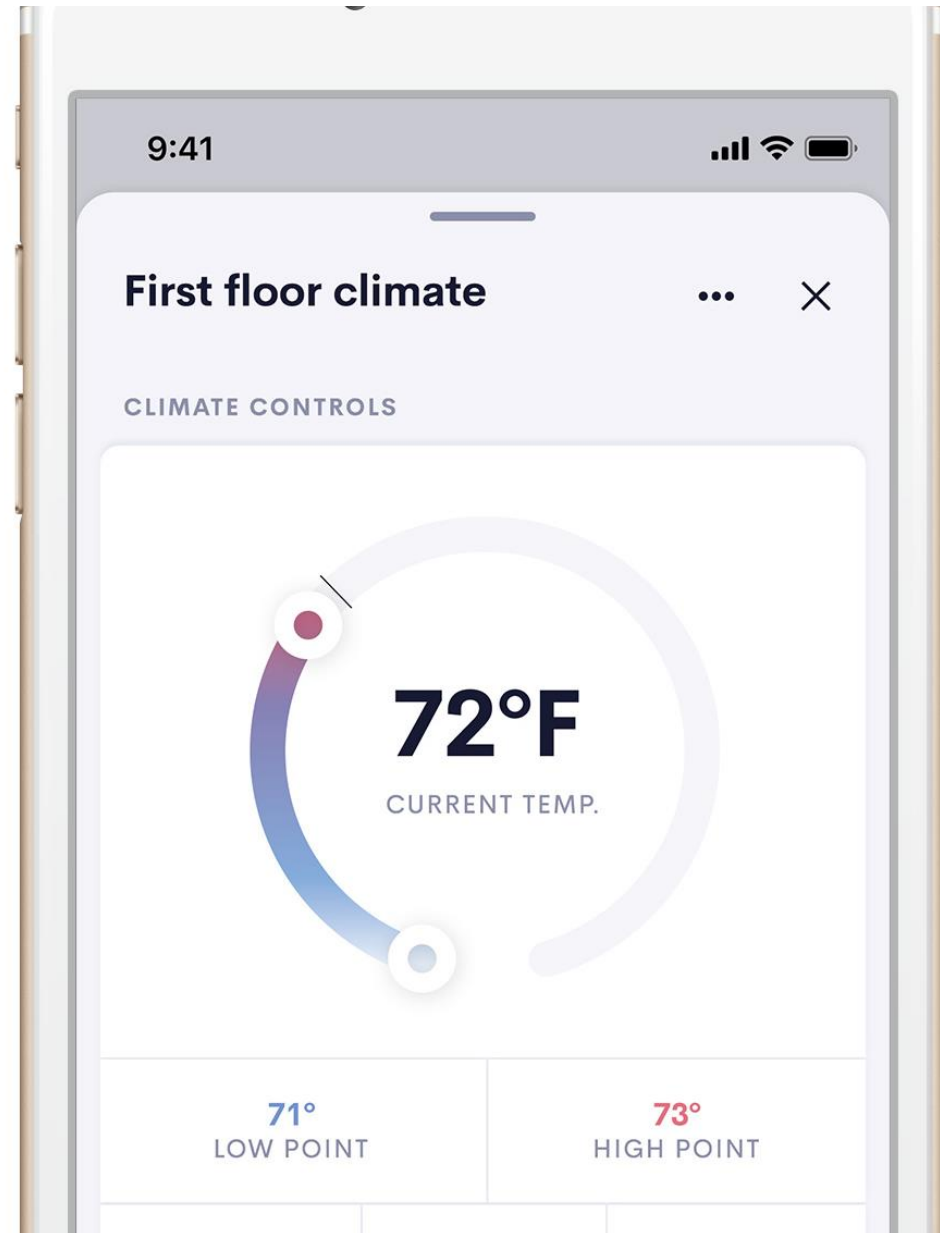


CRESTRON HOME™ APP QUICK START GUIDE



# Continues OS Updates

- Evolving systems
- Features
  - Subsystems
  - UX Evolution
  - Dark Mode







Let's talk about the Crestron Pyng<sup>®</sup> Hub

---

# Let's talk about the Crestron Pyng<sup>®</sup> Hub

---

- Great price and small form factor
- Older hardware platform
- No built-in I/O
- Not capable of running OS 2 or Crestron Home
- But it still fills a market need



---

# Migrating to a CP4-R

---



- You can upgrade a Pyng Hub to a CP4-R today
- But you have to reconfigure the system from scratch



# Migrating to a CP4-R

Direct migration using myCrestron





Sometimes a CP4-R is more than you need



Sometimes a CP4-R is more than you need

---

# Introducing the MC4-R

---



**Available early 2020**



# Introducing the MC4-R-I

## MC4-R – Media Room Controller

- Great price and small form factor
- Built in gateway and Plenty of I/O
- Powerful processor, running Full OS3 Operating System
- Application: Small to Medium size home, MDU Single-Room “Starter” systems.
- Upgrade via myCrestron Cloud



# Introducing the MC4-R-I

## MC4-R – Media Room Controller

- PoE
- infiNET EX<sup>®</sup>
- Cresnet<sup>®</sup>
- 4 IR out, 1 IR in
- 1 COM
- 2 Versiports
- 2 Relays
- Capable of handling systems with hundreds of devices



# MC4-R-TSR-I

Crestron Home 4-Series Media Room Controller with TSR-310, International

- Provides a MC4-R-I control processor and interface for use with Crestron Home™ OS.
- A TSR-310 handheld touch screen remote is also provided for system control.



# MC4-R-HR-I

Crestron Home 4-Series Media Room Controller with HR-310,  
International

- Provides a MC4-R-I control processor and interface for use with Crestron Home™ OS.
- A HR-310 handheld remote is also provided for system control.





# MC4-R Applications





Add lighting,  
shades, climate  
for a complete  
automated  
experience

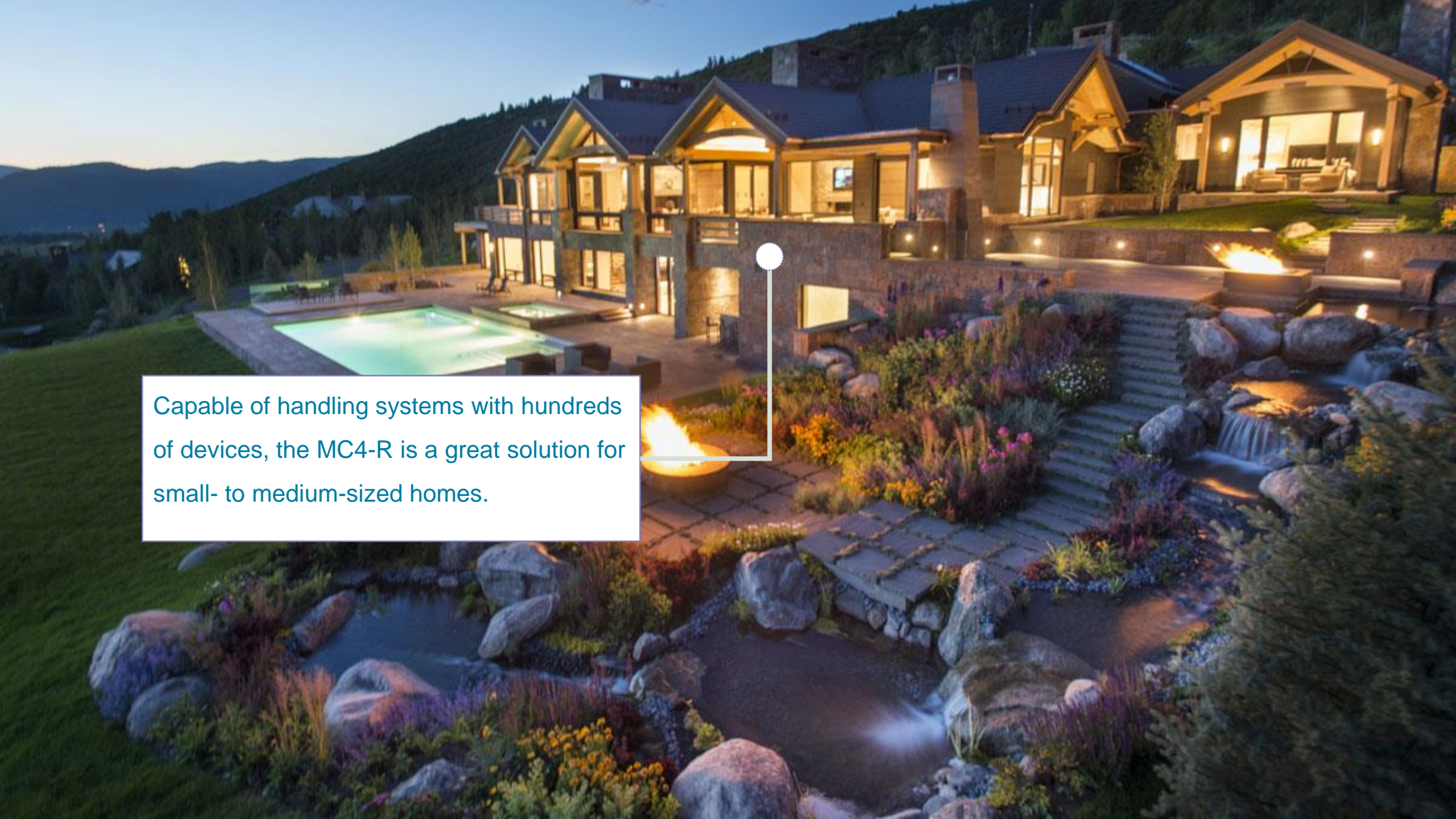
MC4-R behind  
the TV



HR-310 or TSR-310  
remote

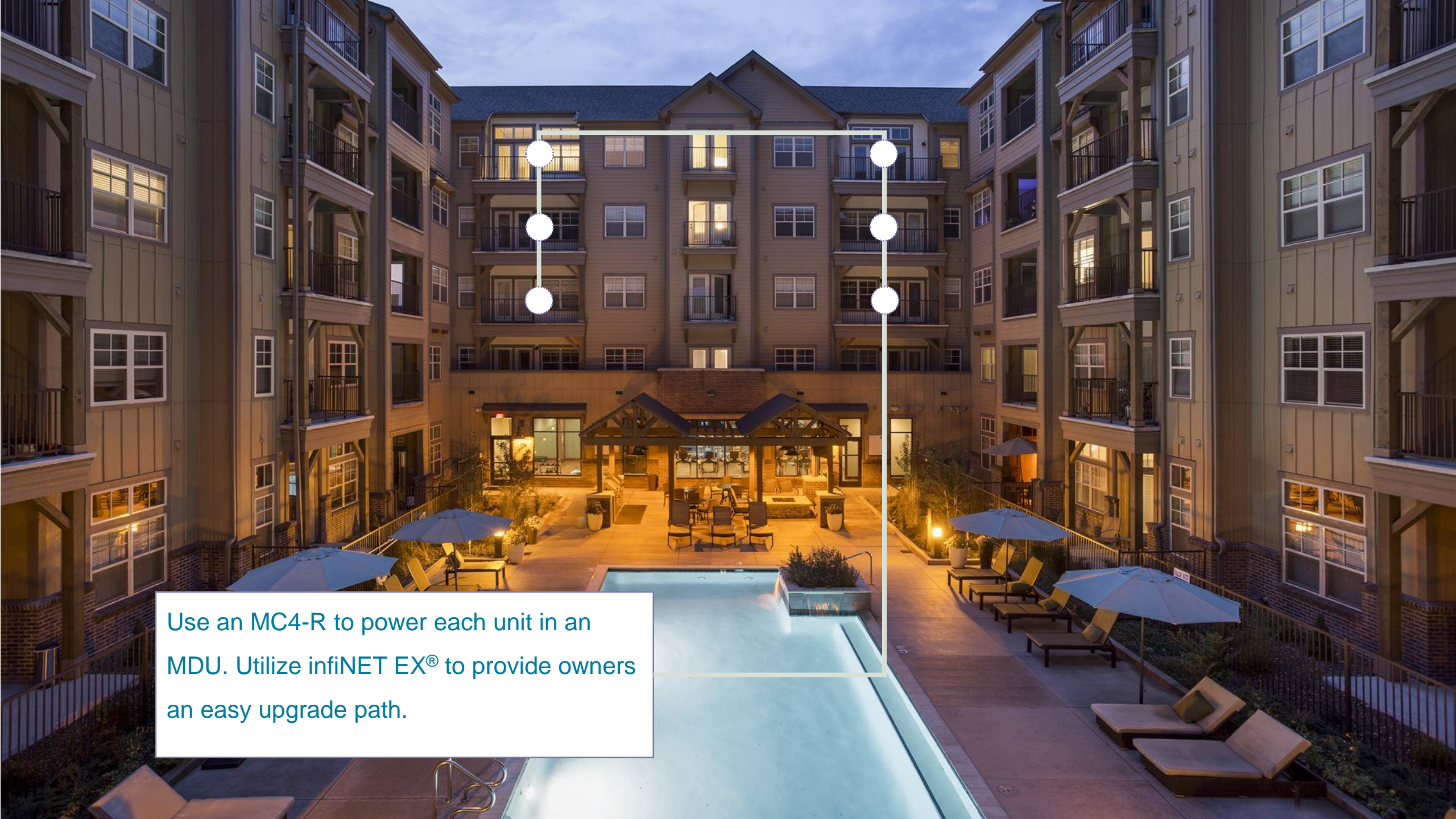






Capable of handling systems with hundreds of devices, the MC4-R is a great solution for small- to medium-sized homes.



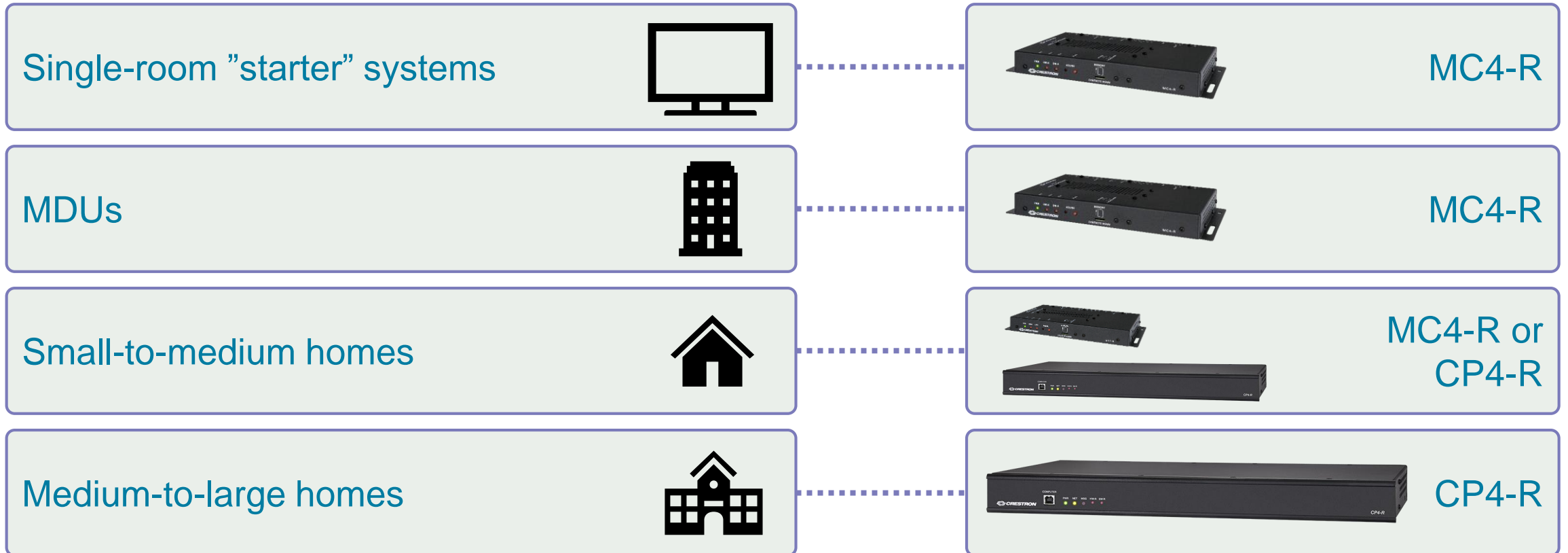


Use an MC4-R to power each unit in an MDU. Utilize infiNET EX<sup>®</sup> to provide owners an easy upgrade path.



# CRESTRON HOME | OS 3

## A solution for every job



Crestron Home™ Design





---

# Your business & the opportunities

---

If you haven't yet, please try Crestron Home™ in your home, lab or showroom.

Understand what it does so well and how to capitalize on that.

This should be ADDITIVE to your business. Yes, there are custom-programmed projects you're doing that can easily transition as well.

Not everyone wants the full \$\$\$\$\$ Custom solution

.



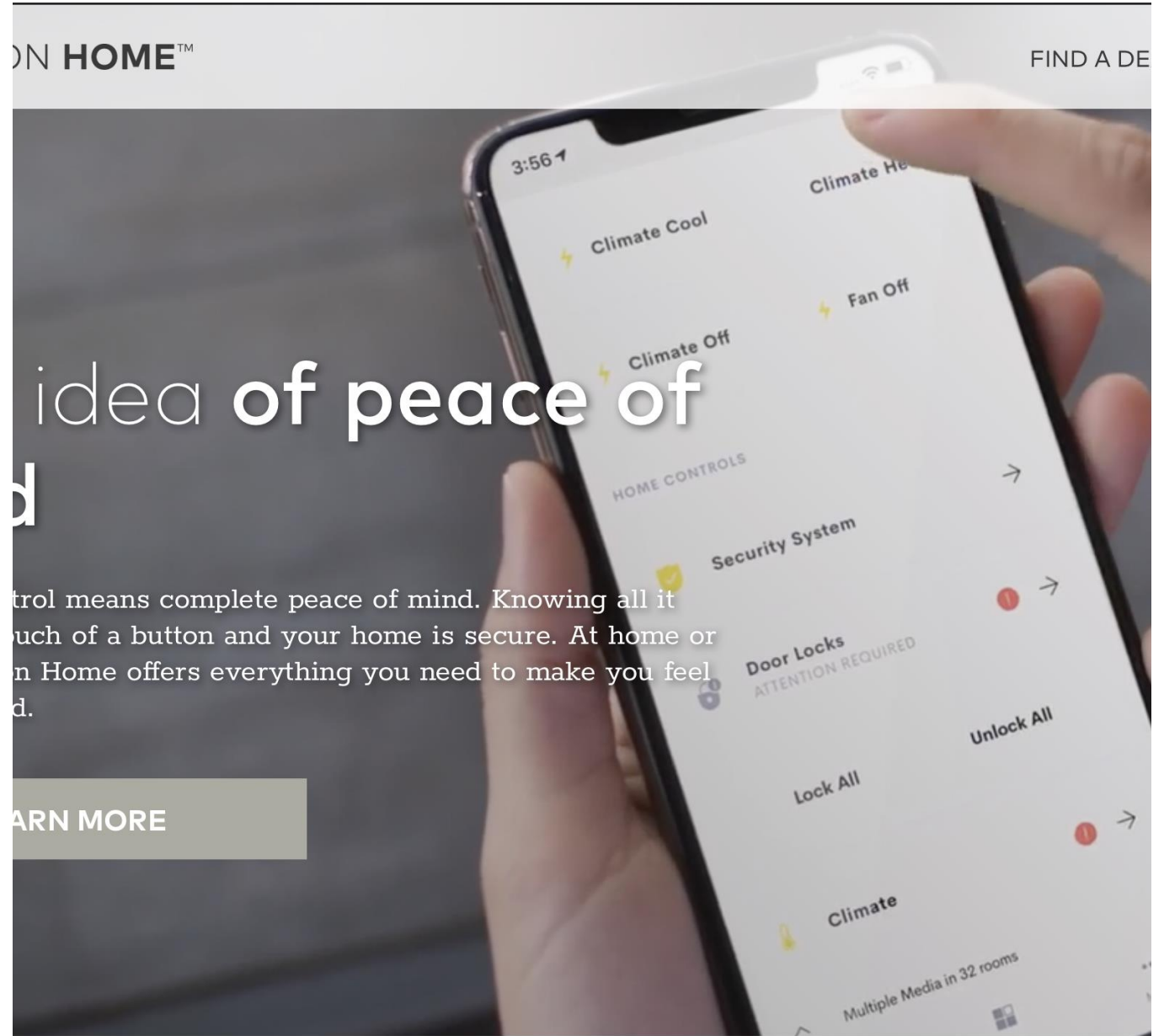
---

# End User Website

---

[www.crestronhome.com](http://www.crestronhome.com)

- Information
- Lead Capture





Creating a successful Crestron Home™ system



# Expectations

- Set
  - Listen to the customers lifestyles
- Manage
  - Present how Crestron Home™ meets their needs
- Exceed
  - Deliver an experience that delights the home owner and their family

CRESTRON HOME™

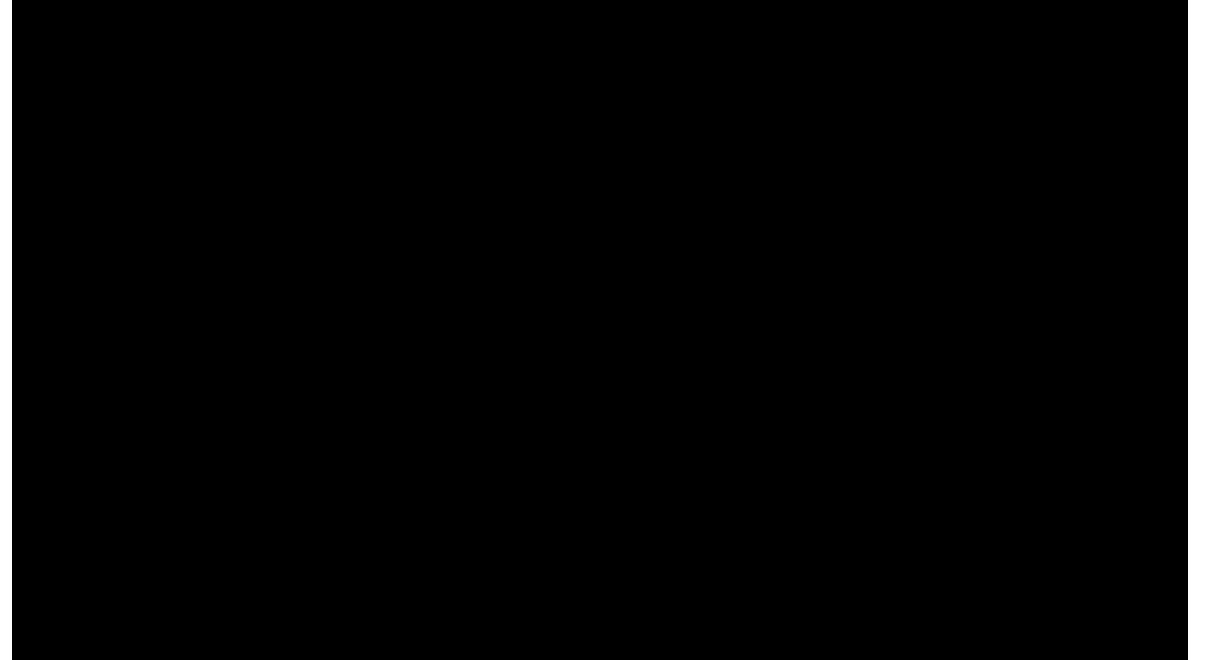
## Start by learning

- Library of over 40 videos covers everything from the basics to more technical information
- Watch the how-to videos on [www.crestron.com/crestronhome](http://www.crestron.com/crestronhome)
- Videos to cover most questions you may have at configuration time.

CRESTRON HOME™

## Start by learning

- Library of over 40 videos covers everything from the basics to more technical information
- Watch the how-to videos on [www.crestron.com/crestronhome](http://www.crestron.com/crestronhome)
- Videos to cover most questions you may have at configuration time.



# Crestron Home Manual

## Read the Manual

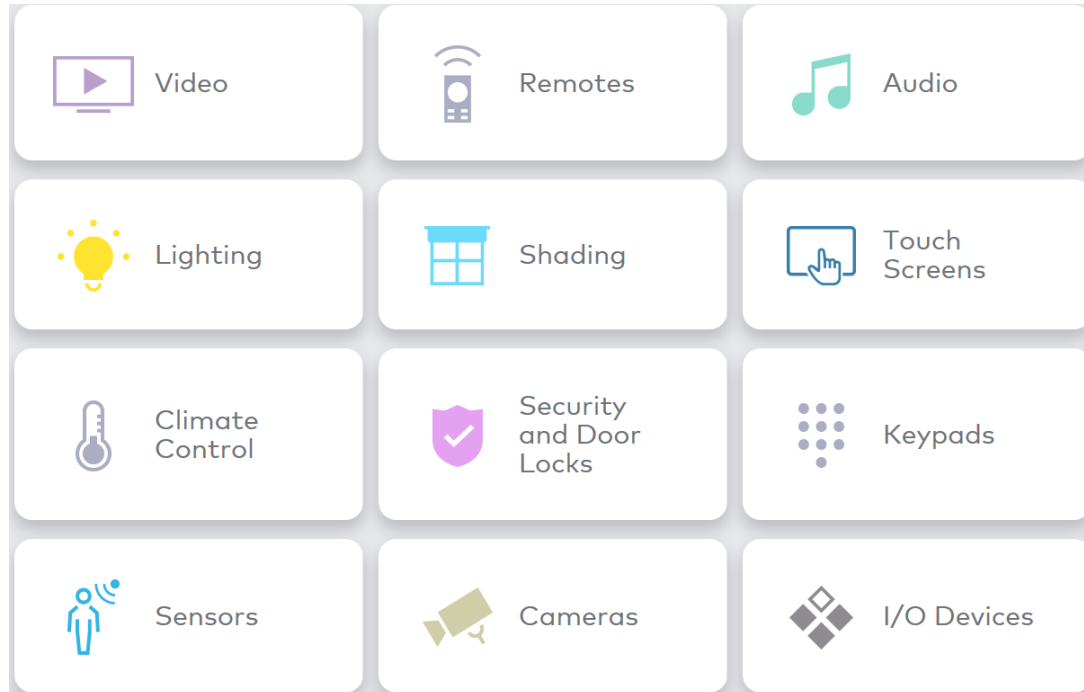
- Step by Step guide
- Complete comparison between Crestron Pyng<sup>®</sup>, OS2, and OS3
- Product features
- Upgrade path between OS2 and OS3
- Creating a new system
- Search functionality
- And much, much more



Crestron Home™ OS 3

Product Manual  
Crestron Electronics, Inc.

# Its Crestron Home, powerful and configurable



## Are the Crestron devices supported?

- Go to the main landing page and scroll down to these subsystem badges to see which devices are there
  - It's almost the entire Crestron catalog, with a few exceptions
- “Works with Crestron Home” pdf posted on the product page

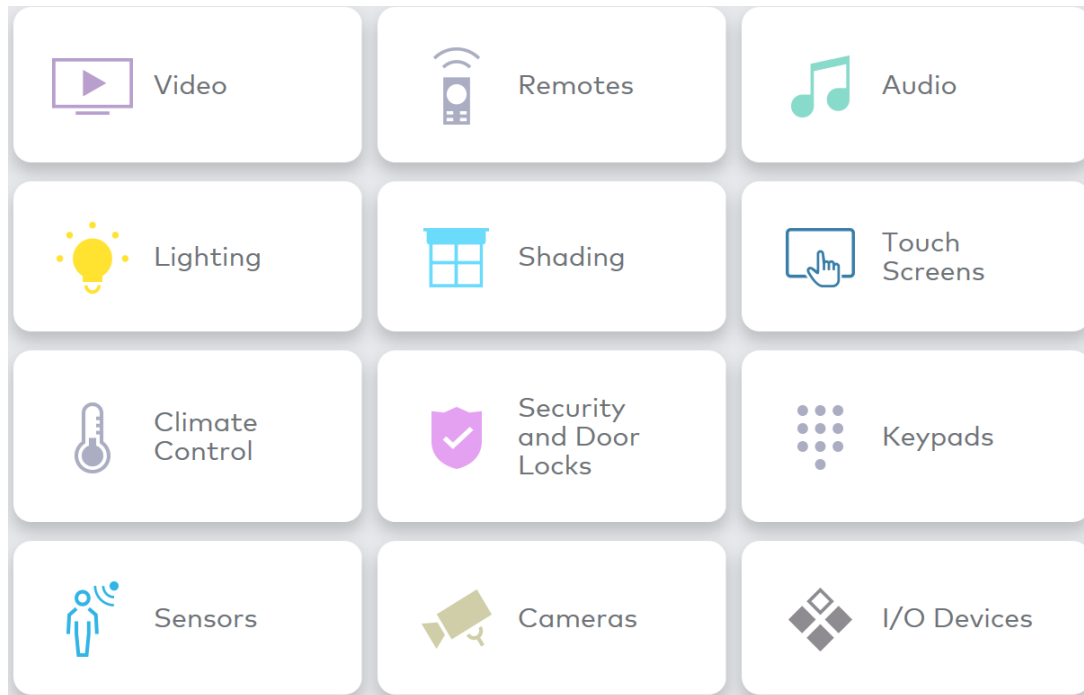


# Crestron Home to the max

- This is the maximum system size, that engineering have tested.
- In the future, this will be expanded

Type	Maximum System Size	
	CP4-R	MC4-R
Touch Screens or TSR-310s	24	12
Apps in Home	10	8
Remotes (HR series)	24	16
Remotes per Room	2	1
Keypads	120	60
Active Audio Groups	4	4
Max Rooms in 1 Audio Group	20	10
Crestron Speaker Zones	32	16
Audio Sources	24	24
Sonos Speaker Zones or Players	16	8
Video Sources	32	16
Video Zones	32	16
Displays in a Room	1	1
Shades/Drapes	100	50
Lighting Loads	300	100
Thermostats	32	12
Security Systems	1	1
Locks	6	4
Streaming Cameras	10	10
Sensors	32	16
AVRs	6	3

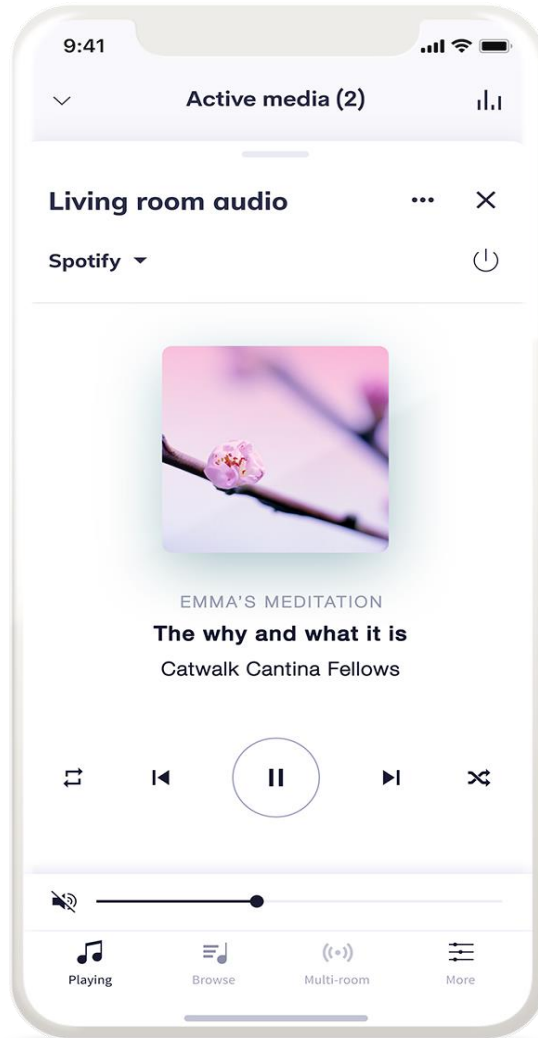
# Choosing the best third party devices



## Are the sources, displays, and projectors supported?

- If it's during the planning phase just search the Driver Portal
  - It's almost the entire Crestron catalog with a few exceptions
- <https://drivers.crestron.io/>

# Crestron Certified Drivers



- If you have already used Device Learner in the past, there won't be much difference, with the exception of a new checkbox that you must select
- You may also side-load drivers to `\User\ThirdPartyDrivers\Import`
- Watch the training video on [www.crestron.com/crestronhome](http://www.crestron.com/crestronhome) that show step-by-step on how to execute this.



## Still need help?

- Design help: [TechSalesEurope@crestron.com](mailto:TechSalesEurope@crestron.com)
- Tech support: [SupportEurope@crestron.com](mailto:SupportEurope@crestron.com)
- Tech tips: Online answer ID 1000448

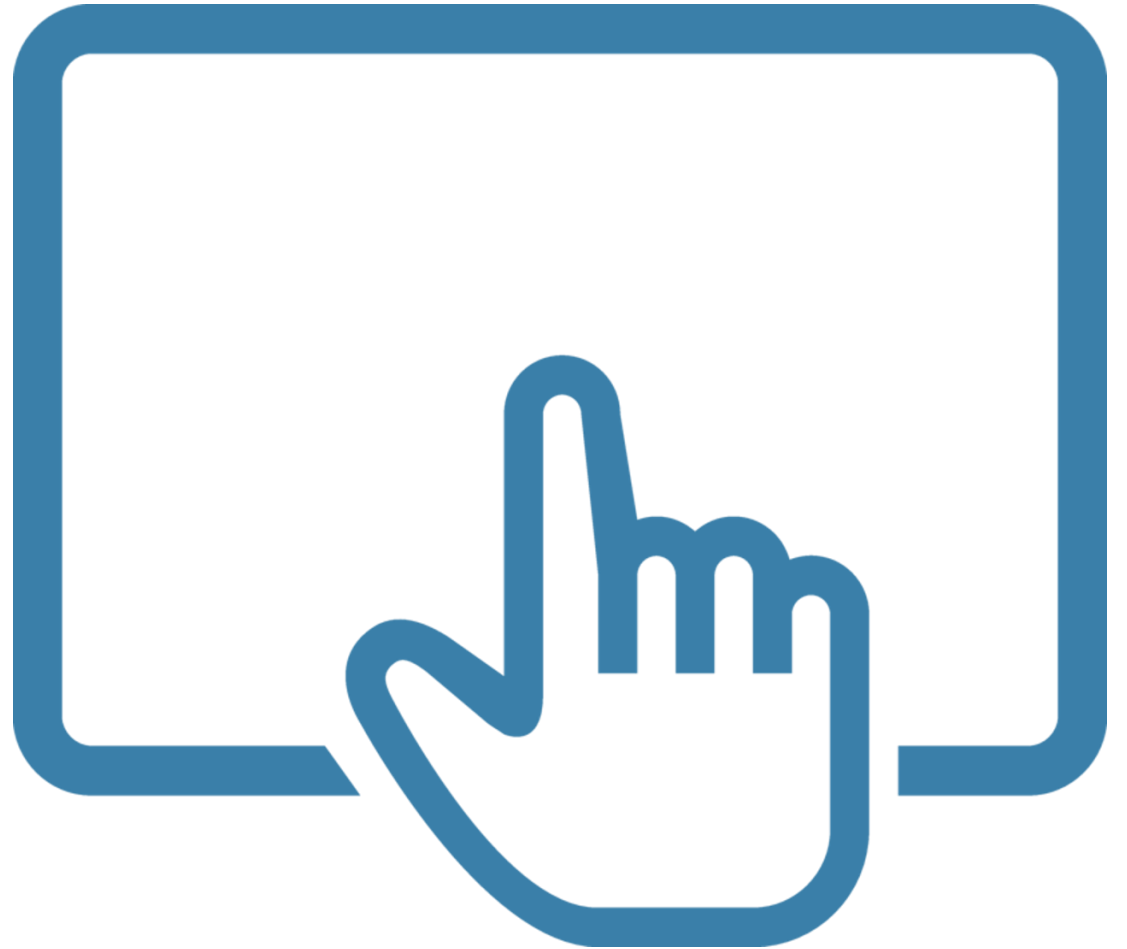
CRESTRON HOME™

Simplify. Innovate. Succeed.

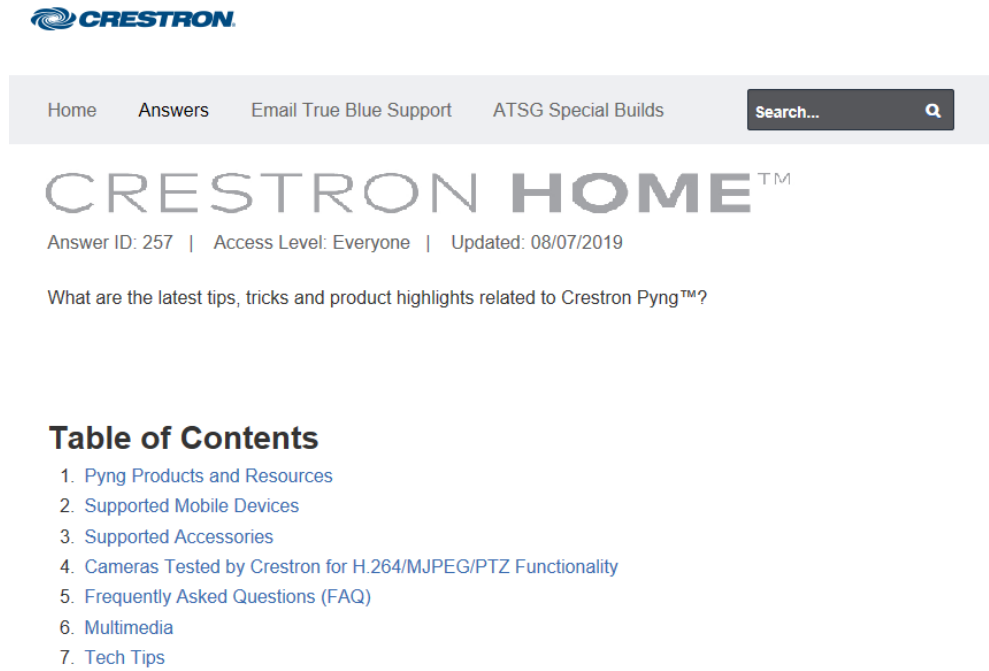


## Even more support

- Help with your first Crestron Home project
- Solutions Engineers specializing in Crestron Home™
- Extra set of eyes and hands on specifications
- Trained support engineers for Crestron Home™



# Troubleshooting and beyond



The screenshot shows the Crestron Home support page. At the top left is the Crestron logo. Below it is a navigation bar with links for Home, Answers, Email True Blue Support, and ATSG Special Builds, followed by a search bar. The main heading is "CRESTRON HOME™". Below the heading, it says "Answer ID: 257 | Access Level: Everyone | Updated: 08/07/2019". The question being addressed is "What are the latest tips, tricks and product highlights related to Crestron Pyng™?". A "Table of Contents" section lists seven items: 1. Pyng Products and Resources, 2. Supported Mobile Devices, 3. Supported Accessories, 4. Cameras Tested by Crestron for H.264/MJPEG/PTZ Functionality, 5. Frequently Asked Questions (FAQ), 6. Multimedia, and 7. Tech Tips.

- Online help answer ID 1000448
- Frequently asked questions
- Troubleshooting support
- Tips and tricks

Sign up for the update notifications



myCrestron Cloud Services





# myCrestron Cloud Services

- Restore the system
- Revert to saved settings
- Monitor device status remotely
- Display logs for every load, device, and keypad button press
- Add new features of devices remotely
- Access, update, and support systems from anywhere at any time
- Order custom engravings for keypads



# myCrestron Dealer Portal



- Available now:
  - CP4-R MC4-R support
  - CP3-R to CP4-R migration
  - Pyng to CP4-R / MC4-R Support
- Coming soon:
  - Keypad engraving
  - And much more
- Visit [portal.my.crestron.com](https://portal.my.crestron.com)

The screenshot shows the myCrestron Dealer Portal Configuration page. The page has a sidebar with navigation options: Dashboard, Devices, Configurations, Sites, Users, and Analytics. The main content area is titled "Configuration" and has tabs for Configuration, Rooms, Loads, Enclosures, Modules, Enclosure Layout, Reports, and Deploy Code. The "Loads" tab is active. At the top of the main content area, there are filters for Room Name, Load Name, Circuit #, Load Type, Control Type, Enclosure, Module, Output, Fixture Qty, and Fixture Watts. Below these filters is a table with columns for Room Name, Load Name, Circuit #, Load Type, Control Type, Enclosure, Module, and Output. The table contains several rows of data, including rooms like Living Room, Master Bath, and Foyer. At the bottom of the table, there is a "Grand Total" row. The page also has a "Previous" button at the bottom left.

Room Name	Load Name	Circuit #	Load Type	Control Type	Enclosure	Module	Output
Basement			ELV/LED	In-Wall	N/A	CLW-DELVEX-P	1
Dining Room			ELV/LED	In-Wall	N/A	CLW-DELVEX-P	1
Family Room			ELV/LED	In-Wall	N/A	CLW-DELVEX-P	1
Foyer			ELV/LED	Centralized	Enclosure	Slot 1 CLX-2DIMU8	5
Living Room	Downlights	108	MLV	Centralized	Enclosure	Slot 1 CLX-2DIMU8	6
Master Bath	Vanity		ELV/LED	Centralized	Enclosure	Slot 2 CLX-2DIMU8	2
Master Bath	Downlights		MLV	Centralized	Enclosure	Slot 2 CLX-2DIMU8	1
Foyer	Chandelier		ELV/LED	Centralized	Enclosure	Slot 1 CLX-2DIMU8	8
Master Bed	Accents		Incandescent	Centralized	Enclosure	Slot 1 CLX-2DIMU8	7
Master Bed	Her Lamp		Incandescent	In-Wall	N/A	CLW-LDIMEX-1	1
Grand Total							

CRESTRON HOME™

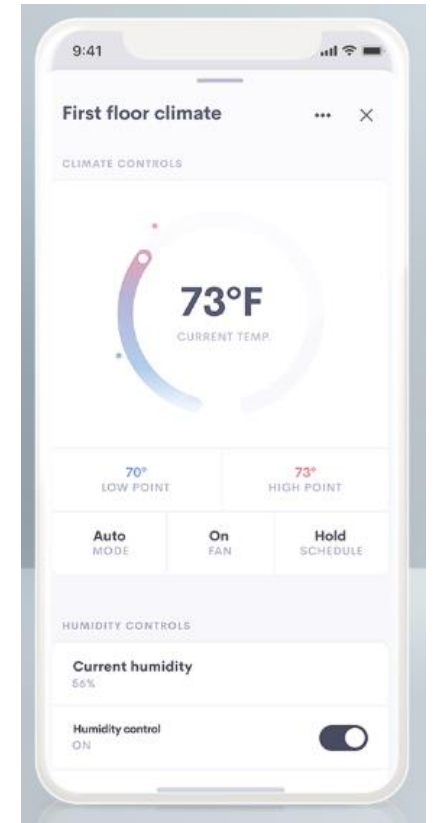
# Recent Updates

# CRESTRON HOME™

## BACnet Thermostat Integration

- Native BACnet Thermostats built right into Crestron Home™. Customize the BACnet objects in the Crestron Home™ Setup App to match your particular installation.
- To users these will appear just like a native Crestron thermostat.
- Ideal for MDUs or large homes with commercial-style HVAC systems.
- Mass-deploy hundreds or thousands of MDU units by pushing out config data from the myCrestron management service.

# BACnet





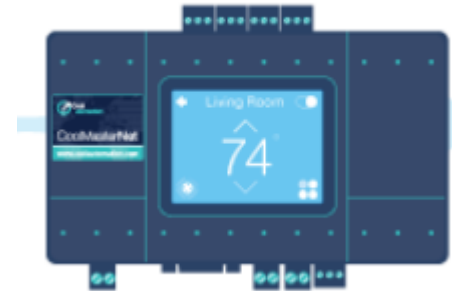
# CRESTRON HOME™

## CoolAutomation Partnership

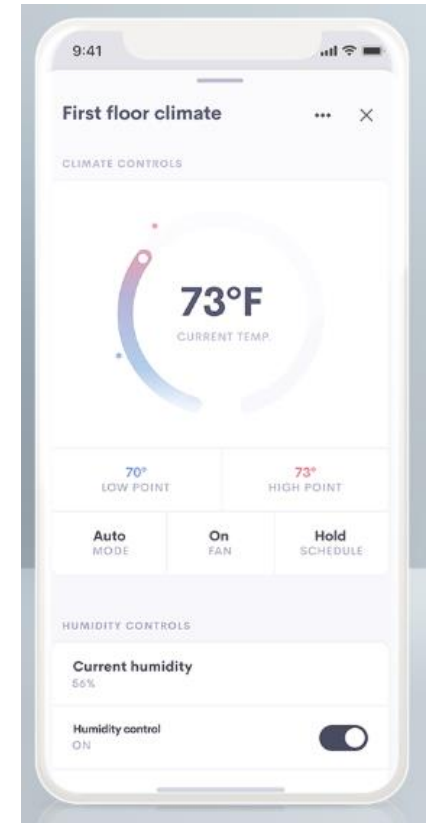
- Native BACnet to communicate to CoolMaster

# BACnet

CoolMasterNet



HVAC Home Automation Bridge



# CRESTRON HOME™

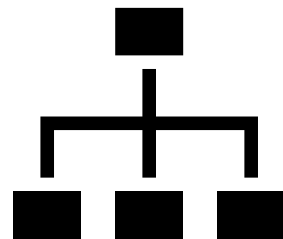
## More supported devices

- DM-MD6x4 and DM-MD6x6
- DM® transmitters
- PoE I/O boxes
  - COM, IR, Relays
- DIN-rail RGB dimmer
- Video and audio DAs

DM-MD-6X6



Pyng Connect COM



Distribution Amps



CEN-IO-COM



DIN-2LEDPWM8

# CRESTRON HOME™

## More supported devices

- Added support to Media Routing to support DM Transmitters
  - Added support for DMC-4KZ-C
  - Added support for DMC-4KZ-C-DSP
  - Added support for DMC-C
  - Added support for DM-TX-4KZ-100-C-1G
  - Added support for DM-TX-4K-100-C-1G
  - Added support for DM-TX-4KZ-202-C
  - Added support for DM-TX-4KZ-302-C
  - Added support for DM-TX-4KZ-202-C
  - Added support for DM-TX-201-C
  - Added support for DM-TX-401-C



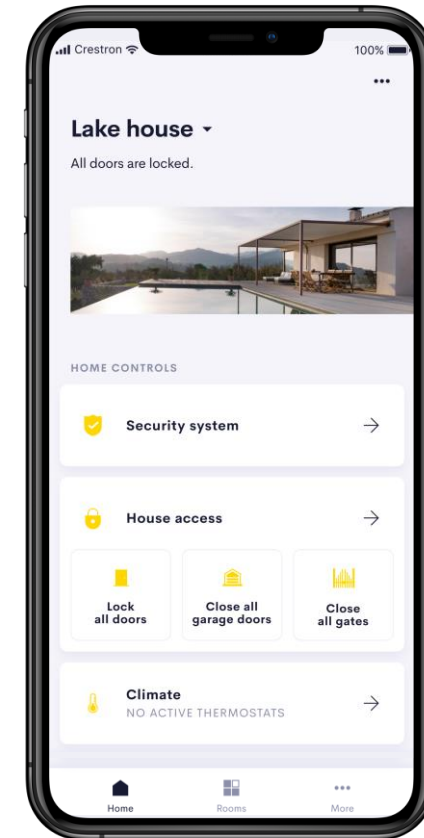
And...

- Added support for CLX-2DIMFLV8-277
- Added support for CLX-2DIMU8-277

# CRESTRON HOME™

## 2019 significant updates

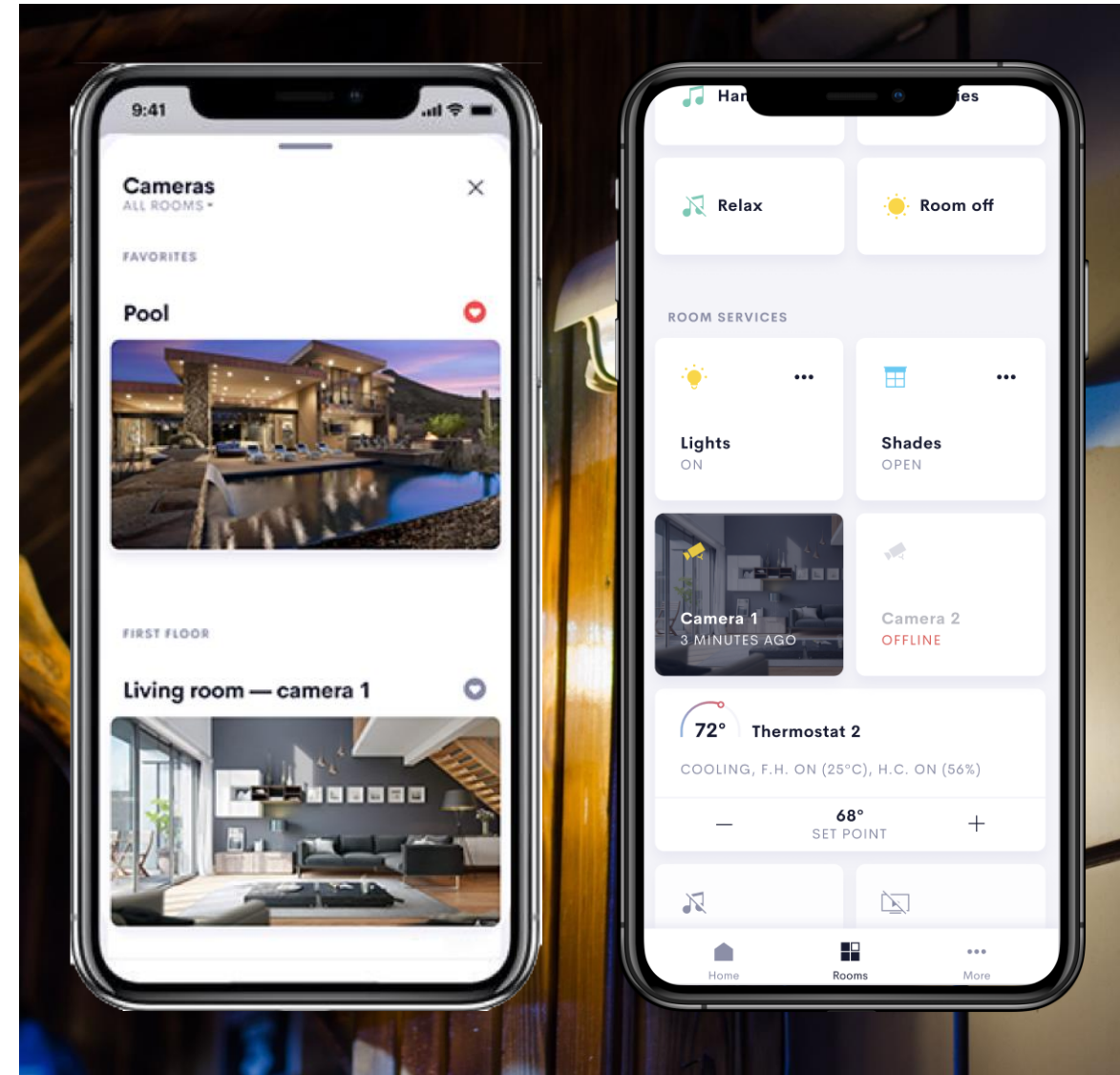
- Pulse times added to relays
- Adjoining room media controls
- Additional power options for sources
  - E.g. Never power off
- Additional Devices: CEN-ODT-C-POE, CLCI-MCEX-W





## Security Camera Support

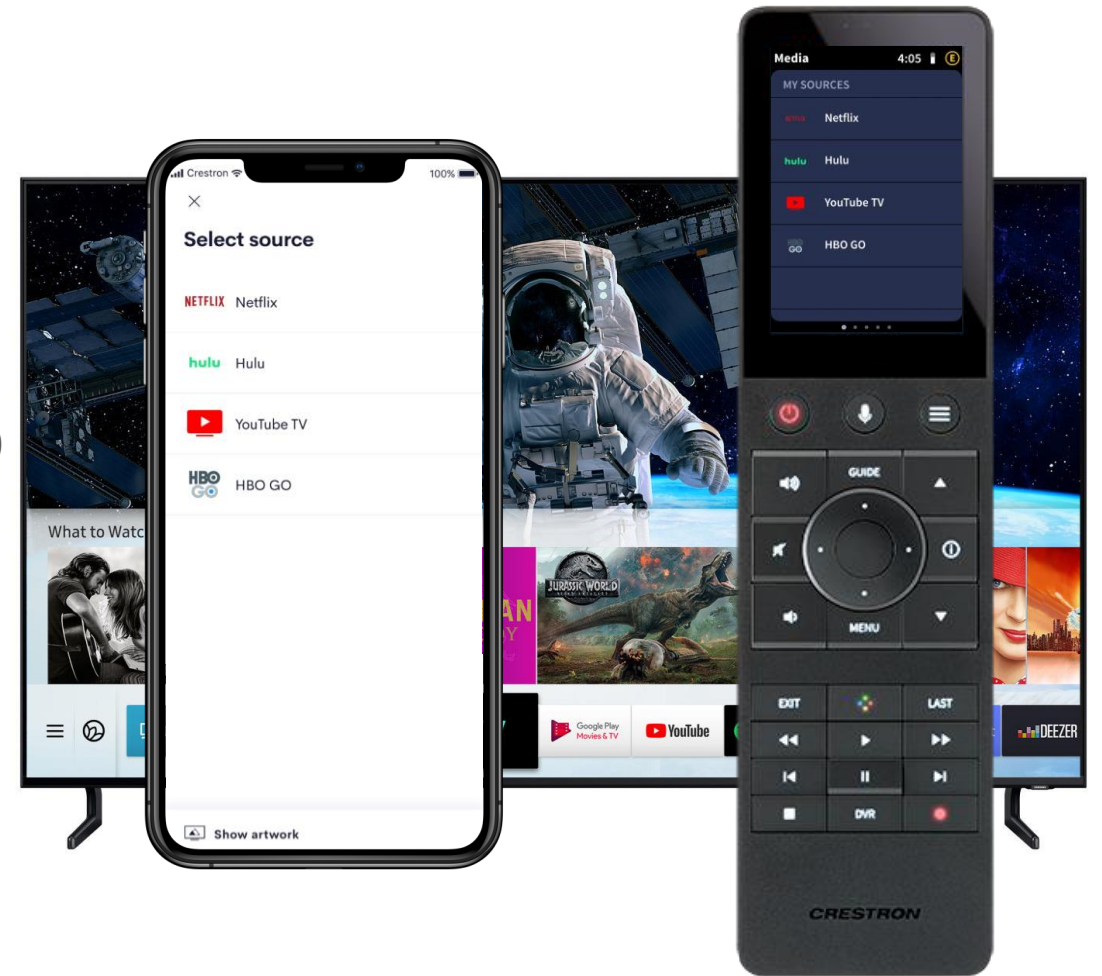
- Easy access to all ONVIF-compliant security cameras
  - Also, a custom URL camera can be added for cameras are not 100% ONVIF compliant
- Access all cameras in a convenient list with a consistent User Experience
  - Similar to rooms, they can mark most used cameras as favorites



# CRESTRON HOME™

## Improved Smart TV Support

- Added Smart TV functionality to our device drivers
- Includes direct access to streaming apps
  - Via source list on touchscreen, mobile, and TSR-310
  - Via custom buttons on HR-310 or HR-150
  - Via Quick Actions & Media Scenes



**SONY**

 **LG**

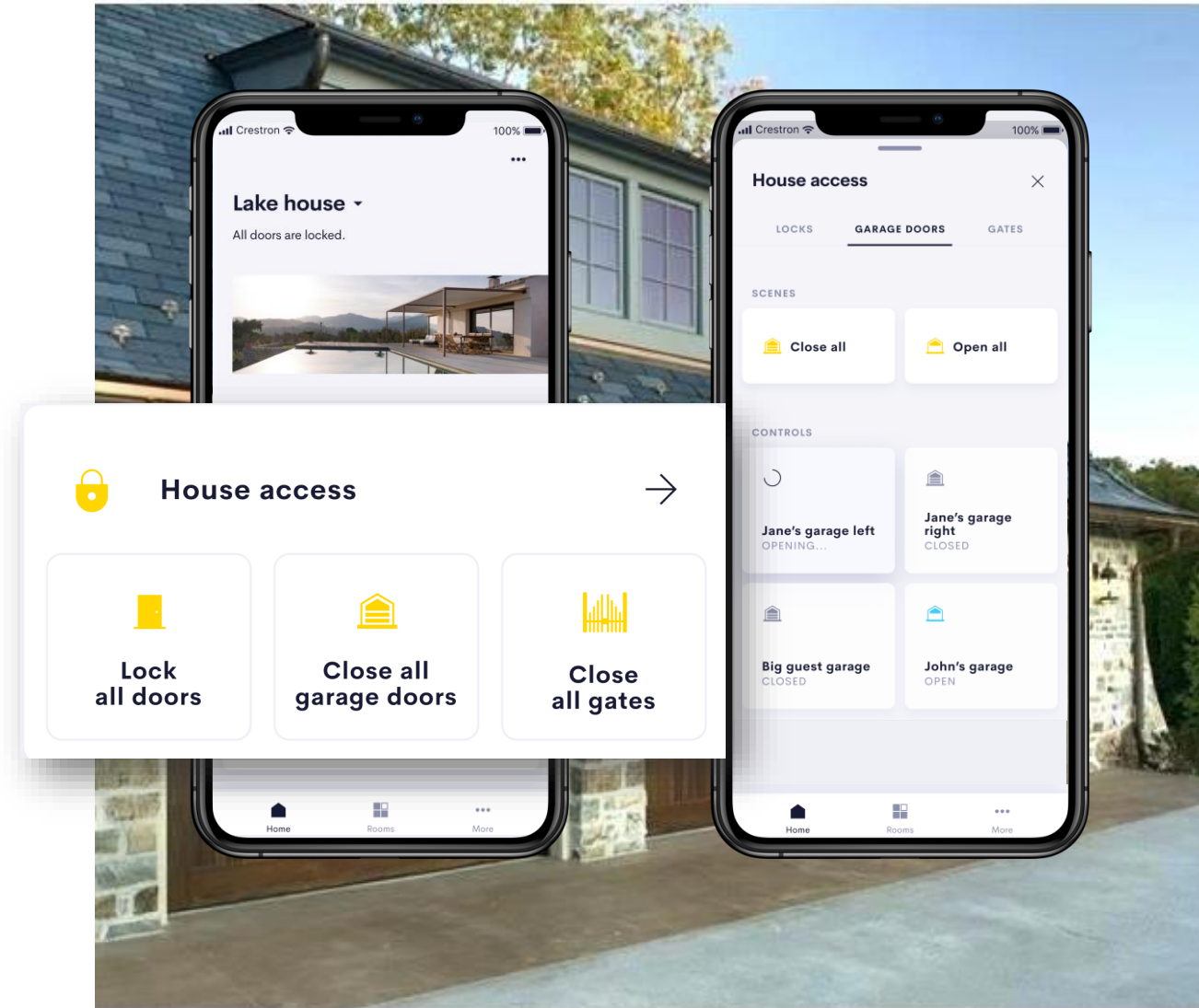
**SAMSUNG**

 **CRESTRON**

# CRESTRON HOME™

## Improved Door/Gate Access

- Improved UX for control of:
  - Garage Doors
  - Gates
  - Door Locks



---

# Crestron Home Partners list getting bigger

---



An Axis company

SONOS



kaleidescape



demotz





## Lighting and Shades

- There are lots of advantages to an end-to-end Crestron solution
- But...there are lots of projects with third party systems as well



WORKS WITH

---

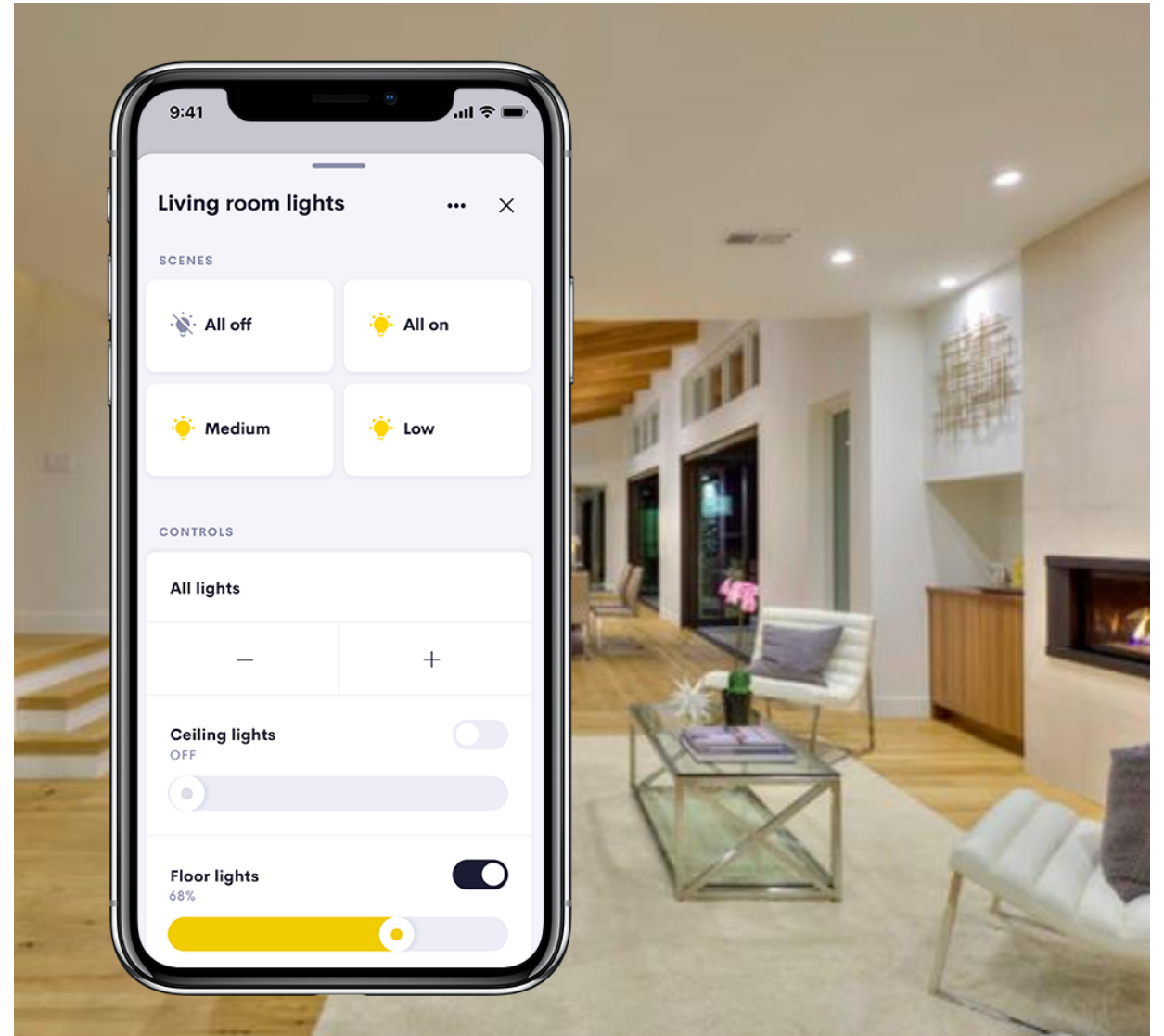
CRESTRON HOME



WORKS WITH

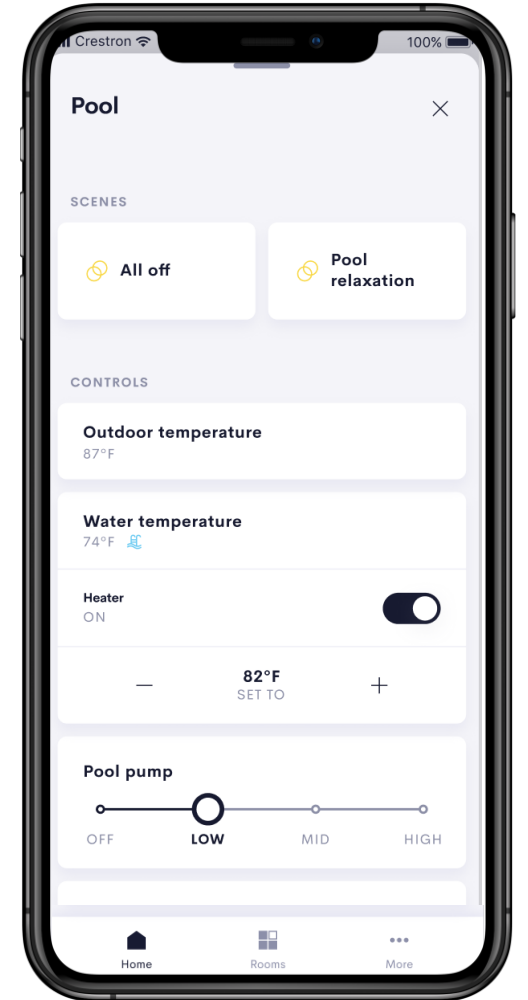
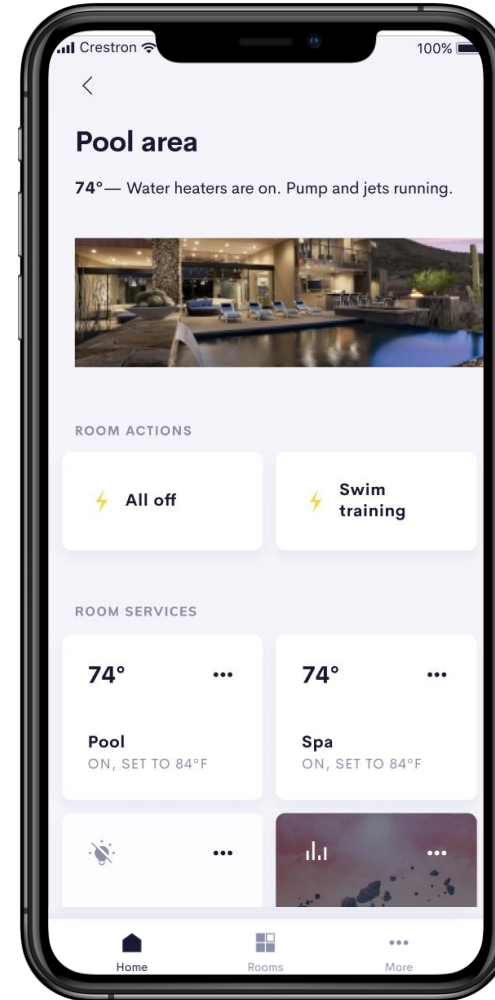
# CRESTRON HOME

- Auto-discovery of rooms, keypads, and lighting and shade loads
- Remote button presses from Crestron to Lutron
- Remote button presses from Lutron to Crestron
- Seamless integration into the Crestron Home™ user experience
  - Includes individual load control



# CRESTRON HOME™

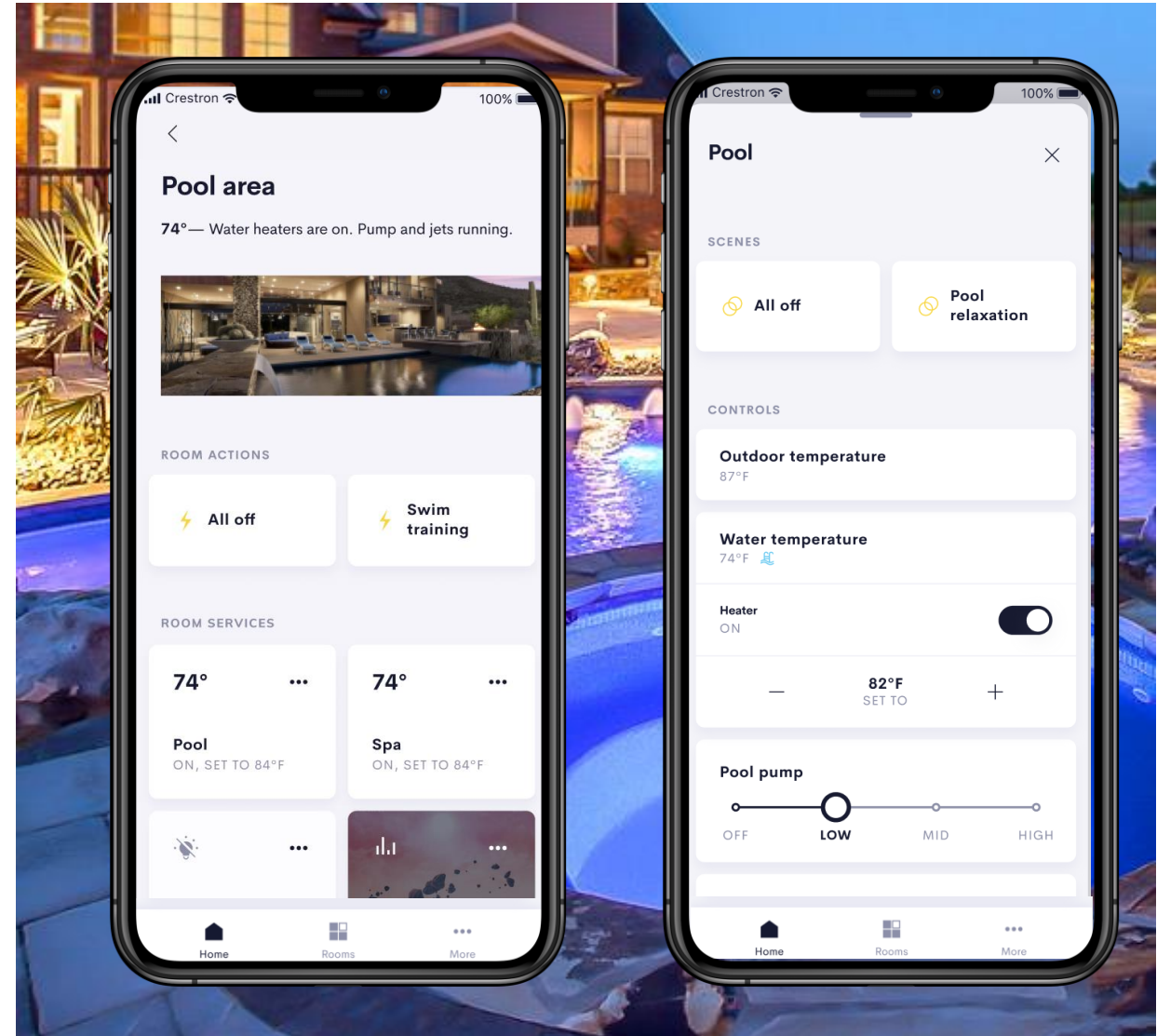
## Pool and Spa Control





## Pool and Spa Control

- Includes control over:
  - Water temperature control
  - Water and air temperature status
  - Pumps and jets
  - Water features
  - Lighting

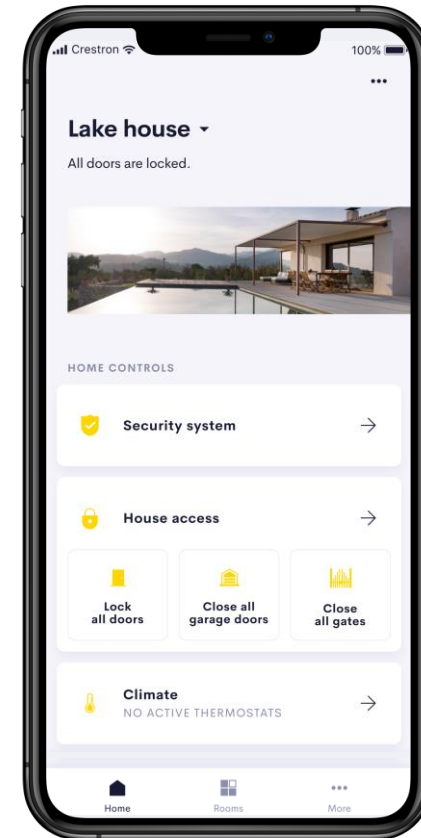


CRESTRON HOME™

**Next Release**

# CRESTRON HOME™

- Android app
- Double-press and press and hold button models
- Autonomic Media Servers will be back



CRESTRON HOME™

**Coming Soon**



# CRESTRON HOME™

## Coming in 2020

- Digital inputs for Doorbells and audio interrupts
- DALI® lighting control via DIN-DALI2



WORKS WITH

---

CRESTRON HOME

# CRESTRON HOME™

## Apple HomeKit support for Apple TV

- IP Control from any UI
- Siri Integration via TSR-310



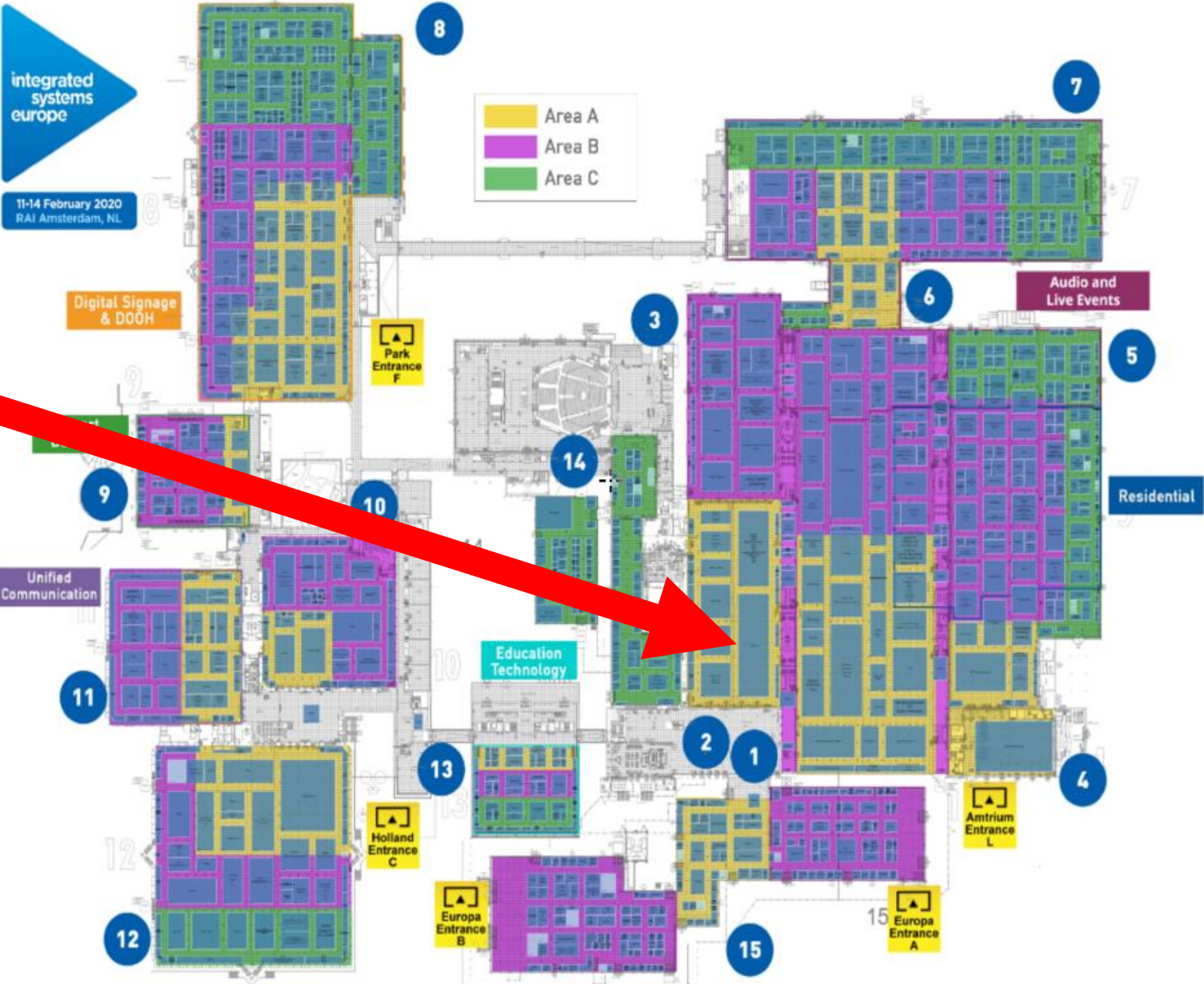


# CRESTRON HOME™

**For a Live Demo visit the  
Crestron Stand  
Hall 2 / C20**



# Hall 2 Stand C20







Thank you for Attending

All brand names, product names, and trademarks are the property of their respective owners. Certain trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. ©2020 Crestron Electronics, Inc.