



## Sharp Helps Us Make It Crystal Clear

### 5 KEY DIFFERENCES BETWEEN TVS AND PROFESSIONAL DISPLAYS

Consumer TVs and professional display products are becoming increasingly similar in design; each and every product has distinctive features for its specific usage. Here are some basic differences between the two:

Consumer TVs	Professional Displays
<b>DEPLOYMENT</b>	
Purchased by consumers for home use	Purchased by businesses; have a more rugged structure for high-traffic areas
<b>BRIGHTNESS</b>	
Typically have a brightness rating of up to 350 cd/m <sup>2</sup>	Usually range from 350 to 700 cd/m <sup>2</sup> to outshine ambient lighting
<b>CONNECTION</b>	
Reduced input choices due to a need for a simple, HDMI™ or USB connection	Has an RS232C input for control, plus a variety of inputs for commercial needs including VGA, DVI and DisplayPort™
<b>COOLING SYSTEM</b>	
Limited onboard cooling is designed for 6 to 8-hour usage; landscape mounting only	Has adequate cooling system to handle 16/7 to 24/7 usage, plus portrait and landscape mounting
<b>IMAGE RETENTION</b>	
Images can “burn” on the screen if left alone for a long period of time	Has technology to protect against image retention

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### Why BrightSign?

# TWO CCS ENGINEERS RECEIVE NEW CRESTRON CERTIFICATION



Joseph Yost, Direction of Integration and Bill Powell, Quality Assurance Supervisor, are among the first 250 engineers across the country to receive the Master Technology Architect (MTA) from Crestron, a global leader in enterprise control and automation technology.

“Mastering system design in today’s competitive landscape requires more than just programming – you need to be a technology architect,” said Rich Sasson, Director, Global Technical Services at Crestron. “To meet that need, Crestron is taking the industry’s highest certification to a new level, ensuring the world’s top design engineers are

equipped with the tools needed to further expand their organization’s capabilities and solutions.”

Proper system design and planning are crucial to the successful deployment of enterprise AV technology solutions. Now, for the first time in 18 years, Crestron Technical Institute now offers the MTA certification program to top design engineers in the industry.

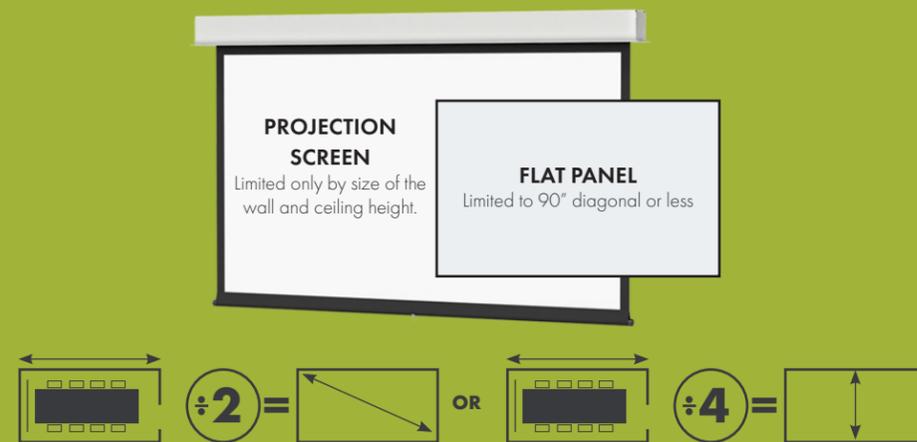
The MTA certification recognizes the very highest level of expertise in Crestron system design and deployment. Joseph and Bill are now recognized industry leaders for the new generation of scalable DM® Network AV Solutions, Digital Signage, Video IP Network Architecture, Crestron Avia™ Digital Signal Processing, Leveraging Web Conference Services, Design for Cloud Provisioning, and much more.

[READ MORE](#)

## DA-LITE: THE TRUTH ABOUT SIZING

Flat panels are shiny and new, but they don’t get the job done in a room larger than 15 feet. As resolution increases, pixels get smaller. That means the text and font sizes used in spreadsheets and presentations also get smaller and harder to see; this results in unflattering, funny faces as business professionals do their best to see the details. For conference rooms, it’s a big problem that limits functionality.

Regardless of what formula you use, a room larger than 15 feet needs a something larger than a 90” diagonal.



**For 16:9 and 16:10 Formats:** An easy way to determine screen size is to take the depth of the room and divide by two. This will equal the approximate diagonal of viewing area for your audience in 16:9 or 16:10 format.

**For 16:9 and 16:10 Formats:** Another way to calculate the size of screen would be to divide the depth of the room by four, which would equal the height of the screen in 16:9 or 16:10 format.

# MakerBot Labs’ New Prototype Experimental Extruder

## PUSHING THE LIMITS OF WHAT’S POSSIBLE WITH MAKERBOT 3D PRINTERS

MakerBot Labs has designed a prototype experimental extruder for the advanced user looking to push the limits of what’s possible with MakerBot 3D printers. Now, users can customize their 3D printing experience with modifiable hardware design and interchangeable nozzles.

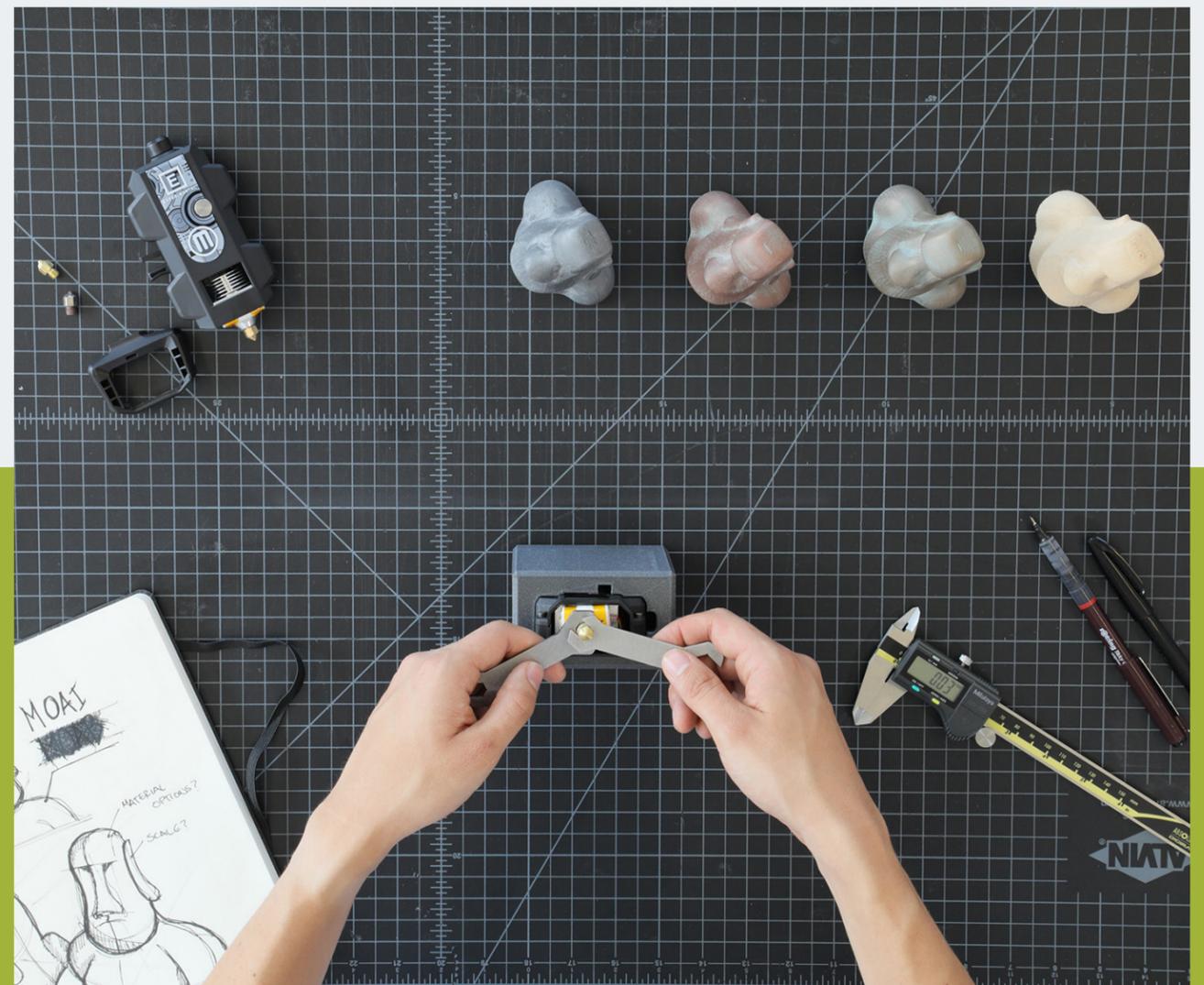
The product offers creative flexibility with a range of materials, where users can push the boundaries of MakerBot 3D printing with unlocked access to custom print modes and interchangeable nozzles for full experimental freedom.

Users can switch from production to sandbox in order to shift between the reliability of the Smart Extruder+ to the Experimental Extruder and test the limit of creative ideas. The Extruder also allows for printing existing PLA materials with large diameter draft nozzles, dramatically reducing total print time by up to 75%.

With a modified thermal core and a more secure thermal barrier tube, the Experimental Extruder was redesigned to make changing nozzles easier. Users can download and print the Experimental Extruder Jig here to provide a more stable platform.

The Extruder also allows users to discover a range of materials featured in the MakerBot Labs Community, such as the colorFabb® bronzeFill, colorFabb® copperFill, colorFabb® corkFill, and colorFabb® woodFill, in addition to their own materials.

[READ MORE](#)



# AMX by HARMAN

## Samsung HARMAN Huddle Room Bundles Facilitate More Effective Collaboration through All-in-One Meeting Room Solutions

These days, it's rare for business leaders to gather global workforce teams together in a single location on short notice. A global work force demands advanced technologies that can provide communication all over the world so that all parties can participate and collaborate. Samsung and HARMAN have revolutionized this type of collaboration through unified audio and visual display solutions that enliven business and maintain a smooth and productive workday – regardless of team member location. These joint technologies supply employees in the room or around the world with the crisp, clear video and pristine audio necessary to conduct seamless video conferencing, encouraging them to collaborate with document sharing, advanced connectivity and versatile implementation features.

Collaboration no longer requires a group of people huddled around a single cell phone or laptop. Samsung and HARMAN enable you to foster an optimal working environment for your business, and dial into the meeting room of the future.

### HUDDLE PREMIUM: BUILD A SMARTER CONFERENCE ROOM WITH NEXT-LEVEL AUDIO AND VIDEO

Intuitive and sophisticated, Samsung and HARMAN's Huddle Premium solution creates new opportunities to customize collaboration. The combination of Samsung's UHD-quality QMH Series displays (49- and 55-inch models) and HARMAN's AMX Acendo Vibe conferencing sound bar brings meeting content to life in ways impossible with yesterday's basic laptop. This solution offers Bluetooth and USB connectivity that allows facilitators and participants to enjoy seamless audio, video and content streaming using their own devices. This compatibility, along with remote-free activation and crystal-clear engagement, make Huddle Premium the best choice for BYOD-friendly small- and mid-sized meeting spaces.



Smarter Conference Rooms.  
Better Collaboration.

# LFS SUBSCRIPTION OFFER Your As-a-Service Solution



## THE FUTURE IS NOW.

How can your organization develop lifecycle agility to continually profit in a dynamic business environment?

The Lenovo Subscription bundle offers a disciplined, cost effective method to procure hardware, software, support and services with reduced risk and greater flexibility than traditional capital expenditures. A total solution is bundled into a predictable cost model with flexible terms that remove the burden of IT management and streamlines asset planning.

## SIMPLIFY.

How can your organization respond to change?



### CUSTOMIZE

a solution that meets your exact needs



### ADD

equipment anytime during the subscription to support growth



### RENEW

technology to benefit from new advancements



### IMPROVE

agility with cancellation flexibility



### BUNDLE COSTS

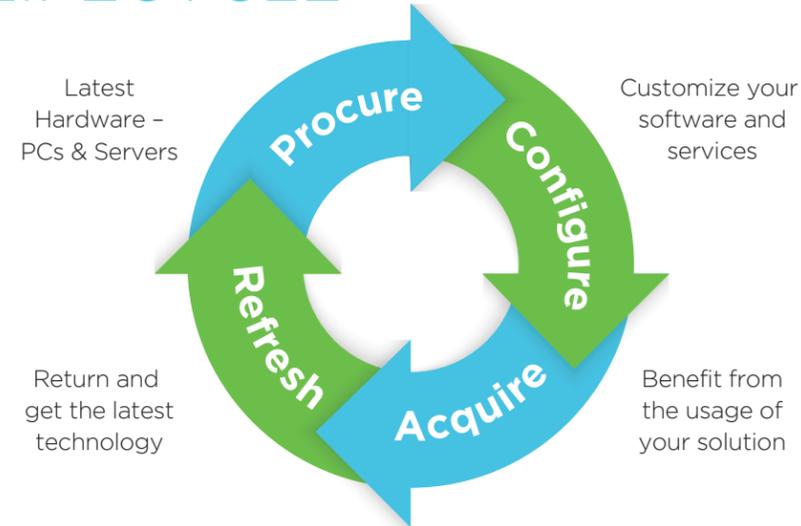
for an immediate, affordable way to meet business needs

## Why more companies prefer the LFS Subscription bundle to manage their technology:

- Capital conservation
- Simplified asset management
- Faster refresh cycles
- Lower total cost of use
- Top performance with ongoing support
- Avoids end-of-life ownership costs related to disposal and data security
- Bundles can include other manufacturers products

## LFS SUBSCRIPTION OFFER Your As-a-Service Solution

## SUBSCRIPTION LIFECYCLE



## FLEXIBILITY.

Refresh technology on a regular basis without the worries when you bundle in the protection you need to stay productive. Subscriptions can contain end-to-end services from deployment to management to recovery, including:

### Warranty Coverage:

- Warranty Extensions: Provide a fixed-term, fixed-cost service solution that enables accurate budgeting for equipment expenses. Match your warranty coverage to your system refresh cycles.
- Warranty Upgrades: Upgrade to On-site Service: Convenience of parts and labor provided on-site at your place of business.

### Protection Services:

- ADP (Accidental Damage Protection)- Goes beyond standard warranty to cover damage due to unintentional spills, bumps, electrical surges, and other accidents.
- Keep Your Drive-In the unlikely event of system failure, you can retain your Lenovo hard drive and business data.

### Configuration & Deployments Services:

Free up your IT staff from time-consuming configuration of new technology with services such as Image Delivery, Asset Tagging, First Boot and Advanced Deployment.

### Premier Support:

Direct access to skilled and experienced Lenovo technicians offering comprehensive hardware and software support.

To learn more and get started, call us at 480-273-8230 or email Julie Solomon at [jsolomon@ccsprojects.com](mailto:jsolomon@ccsprojects.com)

Offer is available for various terms from 2-4 years. Available for approved Lenovo Financial Services partners only. Subscription must include Lenovo services. Not all customers and equipment may qualify for this offer. LFS reserves the right to cancel or change this program at any time without notice.

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# Why BrightSign?

## BrightSign: Open Your Eyes to the Bright Side of Signage

### BrightSign is the Global Market Leader in Digital Signage Media Players

BrightSign has been the global market leader from 2011 -present, as shown in quarterly IHS market research reports. BrightSign has shipped over 1 million players!

### PC-Class Performance and Reliability – without the PC hassles

- Robust and dependable solid-state platform delivers the highest standard of reliability (<0.2% failure rate) and longevity (5 years + operating life).
- Designed exclusively for digital signage, BrightSign's slim OS delivers exceptional 4K and Full HD video quality and superior performance that far exceeds anything that PC systems can provide.
- BrightSign offers multiple networking solutions including integration into all types of backend systems.

### Powerful Video and HTML5 Rendering Engines

- Dual decoding and superior scaling to deliver pristine 4K and 1080p video content – even Live TV.
- Flawless, simultaneous playback of video layered with multiple modular assets powered by a hardware-accelerated Chromium HTML5 rendering engine.

### Easy to Use, Sophisticated Features Including True 4K Playback

Get dynamic results without hassle with BrightSign's abundance of sophisticated and easy-to-use features.

### Exceptional Players from the Global Market Leader

BrightSign's product portfolio delivers the industry's most competitive, complete line-up of digital signage players, from BrightSign XT, which offers the very best in features and technology for enterprise applications, to our first ever HD-OPS compatible player, and don't miss the entry-level LS, a commercial-grade signage player that's a far superior alternative to consumer devices.



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