ROSS LEGISLATIVE SOLUTIONS

Lightning Control System (LCS)

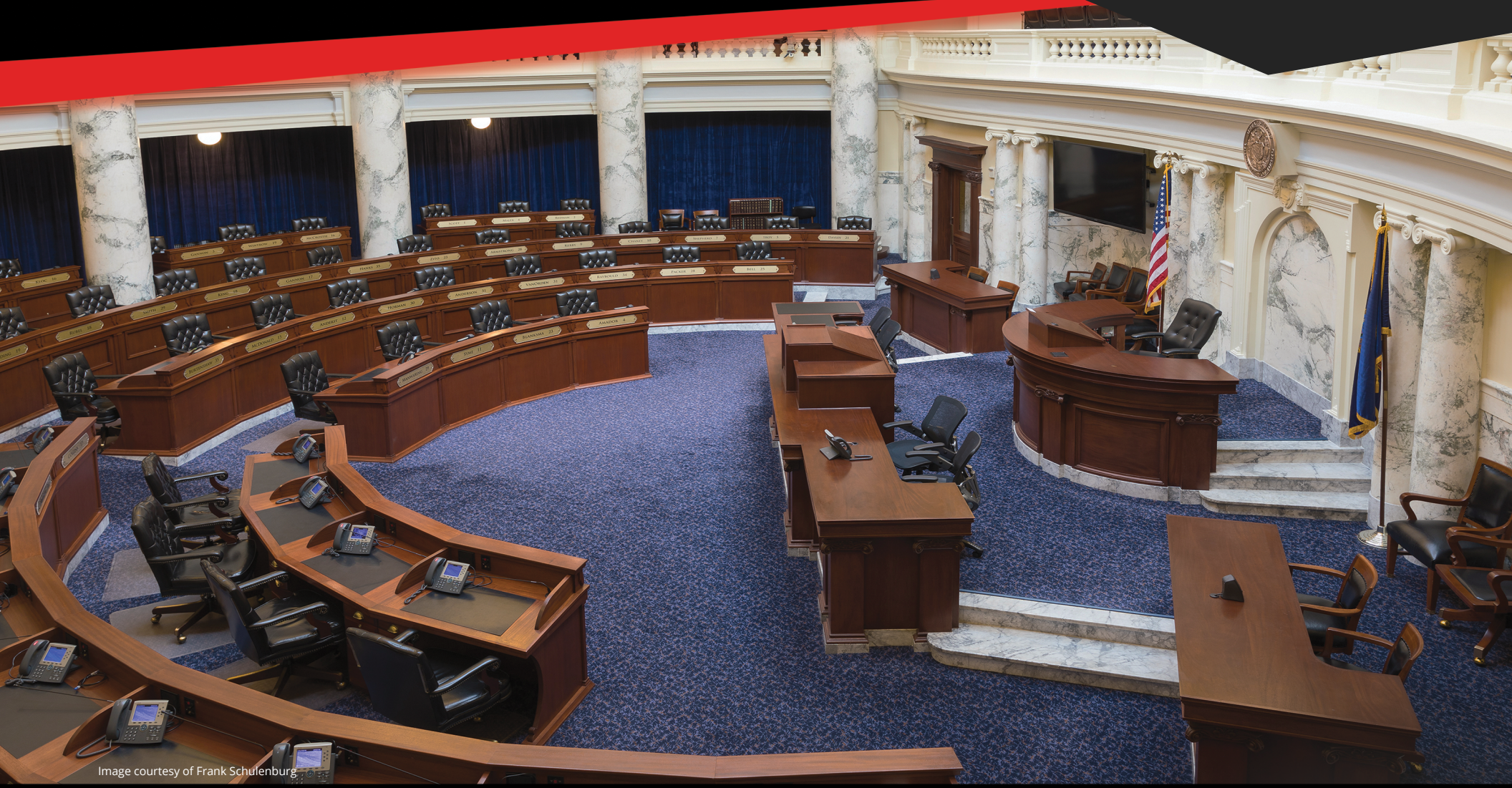
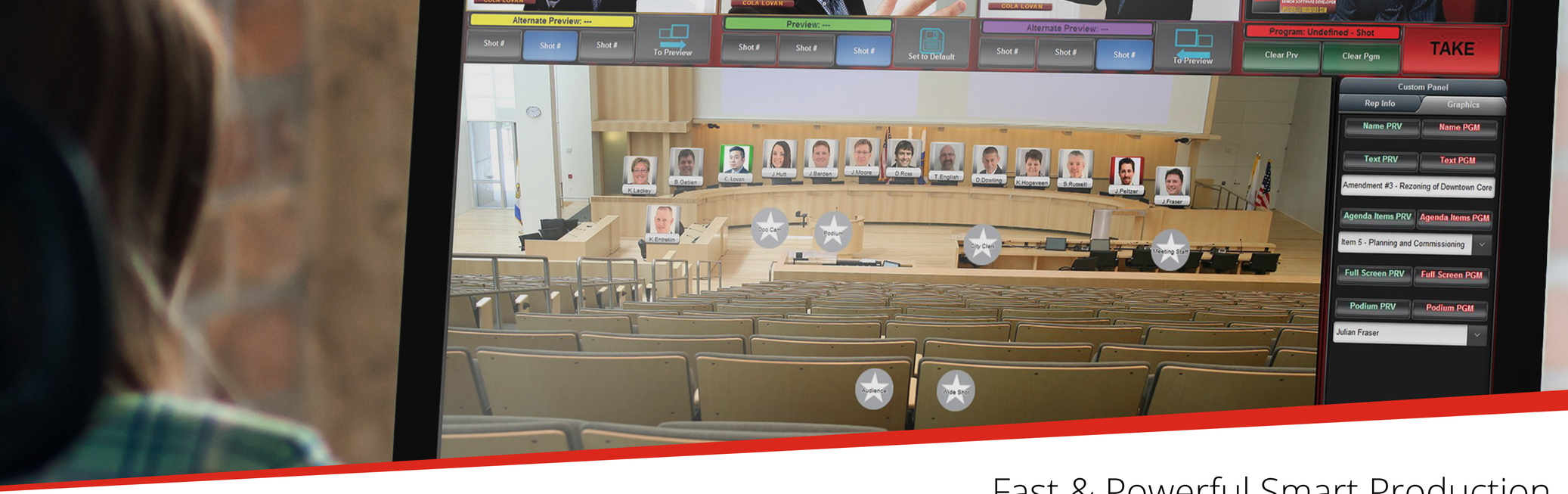


Image courtesy of Frank Schulenburg

Camera Control for Legislative Assemblies

ROSS® LIVING LIVE!



"(with) Ross LCS... technicians are able to store camera shots, marks, and microphone identification so that if something goes wrong with a component they can replace the device, quickly load the file, and get back up and running in a matter of moments, instead of delaying a meeting while dealing with technical issues."

Council of the European Union - Brussels, Belgium

Fast & Powerful Smart Production

Broadcast technology is increasingly being used by governments to make legislative proceedings more accessible to constituents. Being a full-time legislator and a part-time broadcaster on a tight budget can seem like a daunting task, but it does not have to be.

Ross Video delivers smart production solutions for non-traditional broadcasters across several markets including legislatures so clients get expert broadcasts without having to be broadcast experts.

With the Ross Lightning Control System™ (LCS), a single operator is able to manage and broadcast assembly proceedings quickly and easily.

Your Assembly. Your Broadcast.

FOCUS ON PRODUCTION
Ross LCS lets you focus on your production instead of the technology without a detailed knowledge of production switching or character generation. With only 30 minutes of training, you will be able to manage your assembly broadcast.

When a speaker is selected, up to three cameras focus on the desired target, each having 3 quick recall shots. If one of those cameras is already on air, an alternate camera is provided. The operator picks the camera and shot that best frames the speaker and presses the TAKE button. The system takes care of transitioning the switcher to the chosen camera source and dynamically updates the lower third name graphic with the selected representative's information.

ADAPT TO CHANGES
Change is constant in government. Whether it is an election that brings in new representatives, switching up seating arrangements, updating a representative's picture, or adding in a new person on the fly, Ross LCS is able to accommodate these adjustments in a matter of moments without costly service contracts or fees.

STAY ON AIR
Ross Video offers a single point-of-contact for all of its solutions, including LCS, with 24/7/365 technical support.

Key Benefits

EASY TO USE

Intuitive touch screen for selecting representatives, cameras, and shots. Single button takes everything to air, including graphics associated with specific speaker(s) or meeting information.

TECHNOLOGY SIMPLIFIED

Only 30 minutes of training is needed to be able to broadcast effectively. No detailed technical knowledge required.

DEVICE CONTROL

One stop device control including Ross CamBot robotic heads and PTZ cameras, Sony BRC series cameras, or Panasonic HE series PTZ cameras. Solution also integrates with microphone systems to provide video follow audio set ups.

DYNAMIC GRAPHICS

Display pertinent speaker, meeting, and agenda information with dynamic updates using Ross XPression for global template changes.

REPRESENTATIVE ASSIGNMENT

Change seat assignments with a quick drop down list that also updates associated graphics and speaker information.

SPEAKER CONFIRMATION

Double check speaker identity and details with camera feed shown in multiviewer. Capture new thumbnail pictures at the press of a button.

BROADCAST QUALITY

Ross LCS leverages company's 40+ years experience with broadcast technology. Get expert broadcasts without having to be a broadcast expert.

ONGOING DEVELOPMENT

Benefit from Ross' strong commitment to R&D, with customers being a top roadmap priority.

INTEGRATED SOLUTION

Ross LCS is developed, tested, and supported as an integrated solution. If 1 component is upgraded, Ross tests entire solution.

ROSS SUPPORT

Having a single company to contact if there is an issue, and 24/7/365 technical support coverage reduces downtime of the system.

Lightning Control System User Interface

Ross Lightning was originally created to meet the needs of legislatures seeking to make their proceedings more accessible via broadcast video. It is also viable for other productions, such as house of worship, corporate, news and live events.

TAILORED TO YOUR FACILITY
Load your room background and position representatives relative to where they are actually seated

INTUITIVE GRAPHICAL USER INTERFACE
Just touch a representative and the cameras move to prepare the next shot

SINGLE OPERATOR
One person can manage the entire meeting after about 30 minutes of training

MULTIPLE CAMERA OPTIONS
Three cameras with three shots each are available to best capture the next speaker

ON AIR SAFETY
Protects cameras from being moved while on the air

SIMPLIFIED OPERATION
Single button to automatically control switcher and character generator – no understanding of underlying technology required

VISUAL CONFIRMATION
See a picture of the person and compare that to who is on preview to confirm accuracy of saved information, and edit details if needed

DYNAMIC GRAPHICS
Call any graphic templates directly from XPression including lower third name, full slate, bill information, or any other graphic at the a press of a button – info is dynamically fed from the LCS to the character generator which can be previewed before put on air

CUSTOM PANEL FLEXIBILITY
Link a custom Ross DashBoard panel to LCS for an unparalleled unified system control. Ex: Control in-room monitors, activate picture-in-picture, etc.

Previously we had 4 to 6 operators...each with a dedicated task... with (Ross) LCS we are able to broadcast professional quality meetings with 1 or 2 operators, allowing us to have shorter shifts, reducing operator fatigue, and being able to do other aspects of our jobs

Cliff Brannon
AV Production Supervisor - City of San Antonio, Texas

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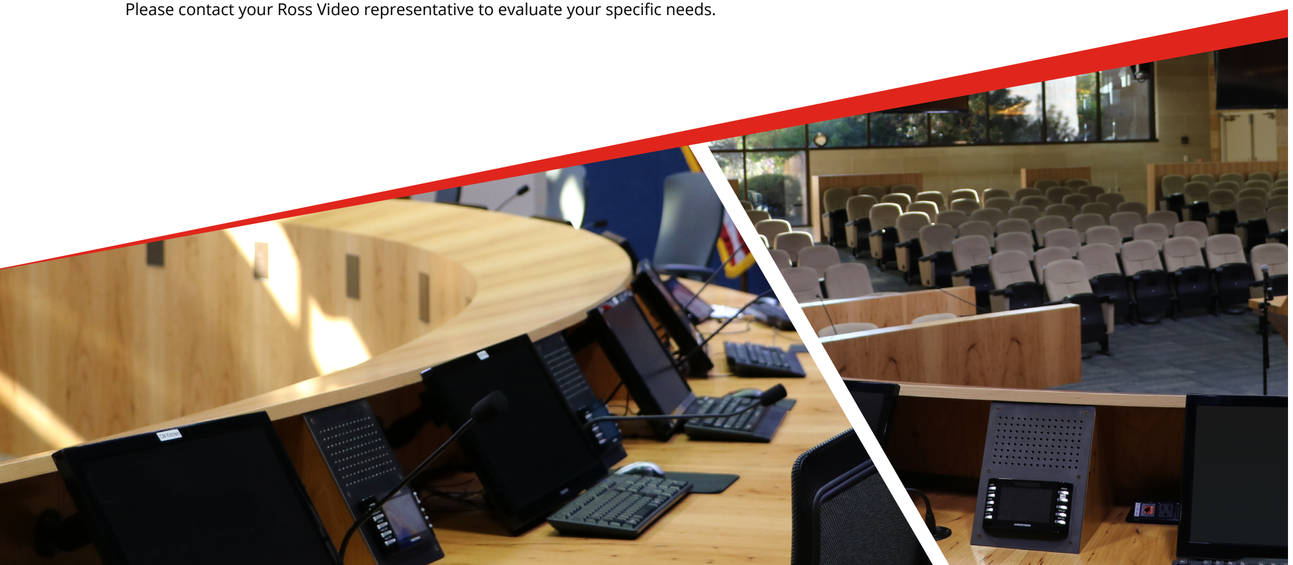
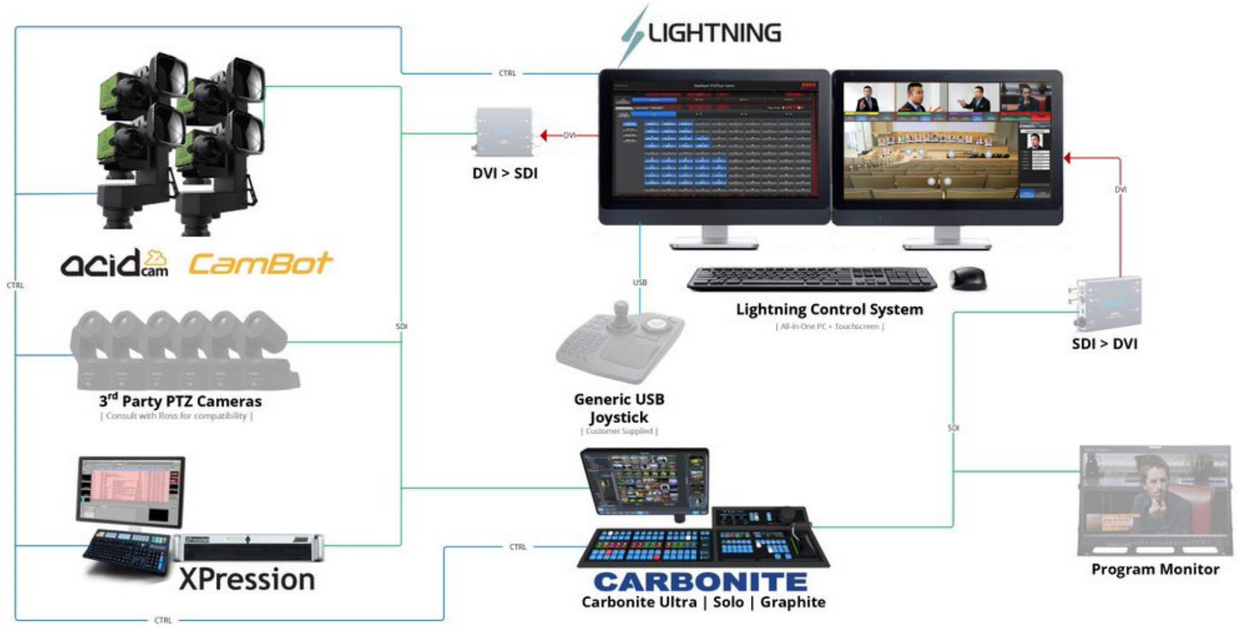
Lightning System Diagram

NOTE: System layout and interconnections may vary on a case by case basis.
Please contact your Ross Video representative to evaluate your specific needs.





LIGHTNING

- Easy to use Dashboard interface
- Fast, Interactive Touchscreen interface with Live video and only 1 frame of delay
- Control Cameras, Graphics and switching from a single interface
- Pair with a Microphone system for added Automation

XPRESSION

- High quality graphics
- Unlimited layering on a single output
- Full Data integration from Lightning
- XPression Live | Prime | Studio versions to fit any budget
- Intuitive Designing of complex graphics

CARBONITE

- A Range of panels and frames to fit any budget
- Robust hardware for long lasting solutions
- Can be ran under Lightning or operated stand alone
- Easy to learn and intuitive design

ACID | CAMBOT

Acid + CamBot

- Robust Camera + Robotic integration
- High quality images and on air moves
- Virtually Unlimited Presets

LCS Smart Production Configurations

Ross LCS is a flexible solution that leverages other products within the Ross family. Both custom and standard legislative configurations - MODERN, FAST, POWERFUL - are available as outlined on the right.

MODERN
For smaller assemblies or meeting rooms with a limited number of cameras, Ross offers this cost effective solution. Designed for single operator control, Modern LCS leverages a Ross Carbonite Solo production switcher (frame only) which has 6 SDI and 3 HDMI inputs. Ross XPression Live CG (included with any Carbonite frame) is an offline, non-animated character generator. With Modern LCS, dynamic graphics updates are available by sending updated images to the Solo still store and displaying them on preview or program output. Combined with 4 or more Ross PTZ cameras, Modern LCS is a fully functional solution controlled via an intuitive touch screen interface. Ross DashBoard ViewControl encompasses live video feeds of preview and program directly from the interface.

FAST

For mid-size meeting rooms with more desired sources, Fast LCS pairs an 18-input multimedia Ross Carbonite Black production switcher with XPression Prime and DataLinq. Carbonite permits additional sources to be accessible and has 2 multiviewers - one for LCS with DashBoard ViewControl to display preview and program video feeds within the interface, the second to display all video inputs on a monitor wall. Ross XPression Prime with DataLinq delivers animated, real-time graphics. In addition to virtual joystick control, Fast LCS includes a physical joystick for added camera control as desired.

POWERFUL

Assemblies with larger facilities typically opt for the larger 24-input multimedia Ross Carbonite Black production switcher with a physical 2 ME panel that offers more production quality options. Ross XPression Studio dual channel with DataLinq is often used for graphics. Two channels of XPression graphics gives you the option of either having real-time graphics for both preview and program, or using one channel to control the graphics and the other for something else without losing ability to show preview graphics. Ross CamBot robotic heads permit a Ross AcidCam box camera and lens to be mounted for use of higher quality cameras with longer zoom capabilities.

Ultrix Router

Inception

DashBoard ViewControl

CamBot Robotics Head

Ross Smart Products

Carbonite Black Solo

Carbonite Black

XPression

CamBot Robotics Free-Roaming XY Pedestals

Acid Cam

SmartShell Control Panel

Abekas Mira Production Server

MODERN
Lightning leverages an intuitive touch screen interface that has a background picture of the room for easy understanding. Place icons, with pictures, on the screen and assign which cameras and shots you want recalled when it is selected. Updates for things like seating arrangements are accomplished in seconds. Basic operational training can be done in as few as 30 minutes.

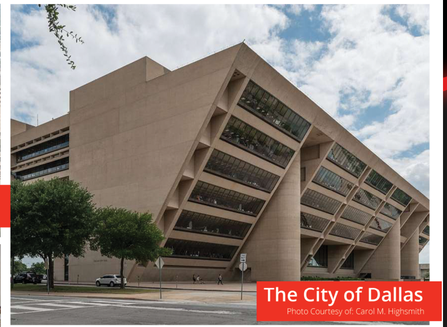
FAST
A single operator manages multiple devices in the room at the press of a button. Cameras focus on a selected speaker and are brought on air with the Carbonite production switcher. Dynamic graphics are displayed, such as lower third nameplates or agenda items, and on the fly updates can be typed in and displayed directly.

POWERFUL
Each assembly has unique ways that things are done or equipment they want to control. As Lightning is built on the Ross DashBoard platform, custom controls can be programmed in to augment Lightning to manage these instances, including additional devices or custom workflows.

LIGHTNING
THE MODERN. FAST AND POWERFUL PRODUCTION SOLUTION

ROSS VIDEO
LCS CLIENTS

The City of San Antonio
Photo Courtesy of: Carol M. Highsmith



The City of Dallas
Photo Courtesy of: Carol M. Highsmith

The Rhode Island State House
Photo Courtesy of: Carol M. Highsmith

The City of Costa Mesa
Photo Courtesy of: D Ramey Logan

New Zealand Parliament
Photo Courtesy of: Michal Klajban

The National Assembly of Zambia
Photo Courtesy of: Lighton Phiri

Legislative Assembly of Prince Edward Island
Photo Courtesy of: Aconcagua

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