# Applied Electronics Enables Access to Real-Time Traffic Information with New Video Wall at the City of Calgary's Traffic Management Centre

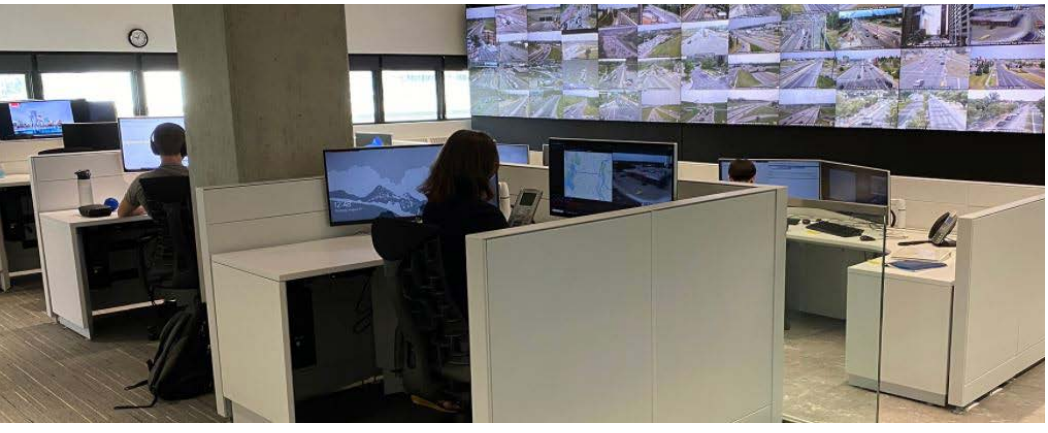
Calgary, Alberta


The City of Calgary's Traffic Management Centre (TMC) is responsible for traffic monitoring, incident management, traffic operation efficiency, and traveler information. The TMC staff monitors, responds and presents real-time information to motorists using a combination of technologies that gather real-time traffic information and revises traffic signal operation where appropriate to keep motorists advised of abnormal traffic conditions, congestion, lane closures, and construction delays.

With TMC staff requiring quick access to an abundant number of sources, the existing video wall no longer served to meet the demands of the team. The City of Calgary selected Applied Electronics to design, supply and install a brand new video wall into the newly renovated TMC.

**Integrated sources of information come from:**

- Traffic cameras monitoring traffic flow, road conditions and traffic obstructions;
- Traffic systems monitoring & control the operation of traffic signals;
- A website map showing road closures, road works and other activities impeding traffic flow;
- A FM radio station delivering current traffic information;
- Dynamic road signs informing motorists of traffic problems;
- Travel time Technology;
- Lane reversals; and
- High Occupancy Vehicle (HOV) lanes.



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## Critical Traffic Operations

The facility now boasts a massive 7x2 array of 14 Barco laser-lit rear-projection video wall cubes, designed for 24/7 control rooms, which offer front access and delivers brightness levels and vibrant colors required by operators in high luminance settings. Ideal for control rooms where space is a critical issue, the front access eliminates the need for a rear maintenance area.

The video wall shows footage from 73 City traffic monitoring cameras, as well as its intersection video detection cameras and photo radar or red-light cameras.

The space also leverages two Christie DLP laser front projectors to show live news feeds covering the latest events happening in the city.

The integrated system ties into two Crestron DigitalMedia 8G+® receiver & room controller with built-in HD scaler, a Crestron 16x16 DigitalMedia switcher, and a Crestron DigitalMedia 8G CAT transmitter.

## Meeting Space for Collaboration

To enable collaboration and unified communications with other essential emergency response teams, the adjacent meeting room is equipped with two 80" E-Series LED monitors, a Barco ClickShare wireless presentation system, a Poly RealPresence 700 video collaboration solution with a Poly UC Board and a Poly EagleEye Producer with the latest camera technology and facial recognition.

The audio system includes Shure steerable ceiling array microphones, a Shure digital wireless receiver and transmitter, QSC ceiling loudspeakers, a Biamp TesiraFORTÉ Dante VI DSP fixed I/O server, and an Extron DMP 44 LC digital matrix processor.

Room automation is achieved with a Crestron 3-Series room media controller activated by either of the two Crestron advanced tablet-style wireless touch screen controllers in the space.

The project was completed on-time and within budget for the City of Calgary's TMC in March 2020.

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