

COMMONWEALTH OF MASSACHUSETTS

CITY OF LOWELL

In City Council

VOTE

Authorizing the City Manager after reasonable investigation issue Proprietary Specifications for the fire alarm master box, door access control system and sidewalk light fixture within the City of Lowell.

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The City of Lowell is seeking permission to issue Proprietary Specifications for the fire alarm master box, door access control system and sidewalk light fixture for the Lowell High School project within the City of Lowell; and

The City desires to issue proprietary specifications for the fire alarm master box, door access control system and sidewalk light fixture for the Lowell High School project within the City of Lowell in order to align with the existing systems already in place, as further described in attachment "A".

The City has utilized these services for several years within the City of Lowell.

NOW, THEREFORE, BE IT VOTED BY THE CITY COUNCIL OF THE CITY OF LOWELL, as follows:

That the City Manager be and she is hereby authorized on behalf of the City of Lowell to issue proprietary specifications after reasonable investigation for the fire alarm master box, door access control system and sidewalk light fixture for the Lowell High School project within the City of Lowell in order to align with the existing systems already in place in which the City has utilized said services for several years within the City of Lowell.



"A"

## Lowell High School Project

### Proprietary Items

We understand even though we, the Lowell City Council as the Awarding Authority, are voting these products to be proprietary, the specifications will include an “or equal” clause. An item is considered equal if it:

- Is at least equal in quality, durability, appearance, strength, and design;
- Will perform the intended function at least equally; and
- Conforms substantially, even with deviations, to the detailed requirements contained in the specifications.

#### 1. Keltron Radio Master Box

In compliance with M.G.L. c.30 §39M(b), the Awarding Authority has determined that the specification of the Keltron shall be provided as a proprietary specifications follow a reasonable investigations.

As a result of the investigation, it was determined that this item is required by the Lowell Fire Department as a standard piece of equipment required for all buildings in the city. This is the only product that will work with the city-wide fire alarm receiving equipment.

#### 2. Access Control

In compliance with MGL c30 §39M(b), the Awarding Authority has determined that the specification of the Avigilon shall be provided as a proprietary specifications follow a reasonable investigations.

As a result of the investigation, it was determined that the Lowell School Department uses Avigilon to for its access control system in school facilities. Maintaining a standard set of manufacture for this type of equipment helps to lower the total cost of ownership of the system by allowing the Schools to maintain a standard operating procedure for installation, operation, support, and maintenance.

#### 3. Sidewalk Light Fixture

In compliance with MGL c30 §39M(b), the Awarding Authority has determined that the specification of the Penn Globe Boulevard shall be provided as a proprietary specifications follow a reasonable investigations.

As a result of the investigation, it was determined that the Lowell Department of Public Works uses Penn Globe to for historic Victorian styled sidewalk light fixtures. Because of this, allowing an alternative product would require additional resources and costs to maintain two different fixtures.

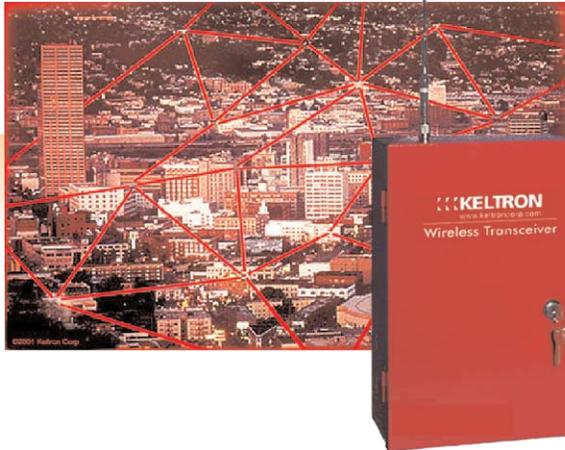
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05/06/10 05/06/10 05/06/10

15:36:09 15:36:09 15:36:09  
05/18/14 05/18/14 05/18/14

20:36:09 20:36:09 20:36:09

**KELTRON**®

## Keltron RF778F Wireless Transceiver



- High performance
- Cost effective
- Scalable
- UL-Listed Primary Signaling

**K**eltron RF778F wireless transceivers provide two-way alarm transmission from monitored locations to the supervising receiver. Replacing expensive and unreliable telephone lines, active network radio is a self-routing and self-healing solution that ensures instant life safety event monitoring over a wide geographic area.

Designed for use in campus facilities, industrial complexes or municipal environments, each Keltron RF778F wireless transceiver serves as both a transceiver and a repeater to improve the strength and range of the entire network. The two-way transceiver provides high integrity communications that ensure every signal is authenticated and acknowledged.

Keltron RF778F wireless transceivers feature 8 discrete programmable end-of-line (EOL) inputs.

### **Keltron RF778F benefits**

**High performance** - delivers messages in less than two seconds

**Cost effective** - case-mount antenna - easy installation reduces expense - eliminates monthly telephone charges

**Scalable** - multiple routing enables long range mesh network with high capacity growth potential

**Reliable** - unique store-and-forward technology eliminates signal loss

### **Keltron RF778F features**

The Keltron active network radio system is UL-listed as a Primary Signaling System. This means that it may be used as the sole method of transmitting fire alarm signals to the receiving location. Other key features include:

- Built-in power supply and battery charger
- Digital dialer input using the IntelliTap receiver to tap the alarm panel dialer output and transfer full alarm data by radio
- 8 programmable end-of-line fire/security inputs (EOL)
- Alternate input module, DataTap™ RS232 interface to addressable FACP
- Ground fault detection for direct device monitoring
- Charger failure reporting
- Synthesized radios increase stability and accuracy

### **Programmable features include:**

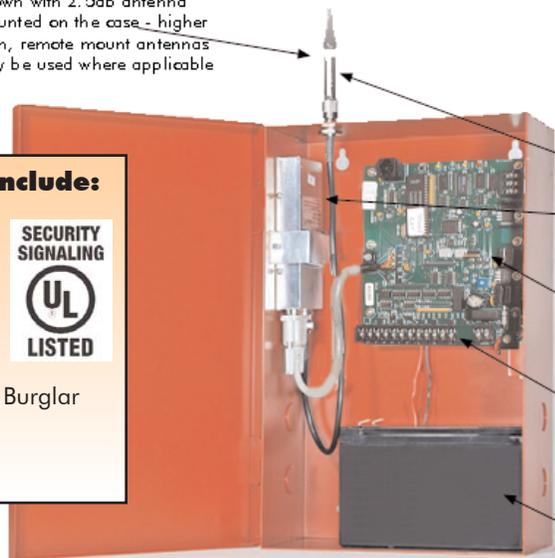
- Check-in time
- Time-to-live (TTL)
- AC fail delay reporting
- Second alarm delay
- Antenna cut delay
- Network/cipher code/account

**UL Fire & Safety Listings Include:**

- ▶ UL1610 (standard)  
Central Station Alarm Units
- ▶ UL864 (standard)  
Control Unit Accessories, System
- ▶ UL681 (standard)  
Installation and Classification of Burglar and Holdup Alarm Systems



Shown with 2.5db antenna mounted on the case - higher gain, remote mount antennas may be used where applicable



**Typical Configuration:**

- Antenna: omnidirectional, choose from 2.5 db to 7 db
- Transceiver: 2-5 watts typical, UHF and VHF available
- Smart controller for transceiver and repeater reports alarms, trouble, resporsals, low battery, AC status and more dynamically adapts to maximize performance
- 8 - EOL fire/burglary inputs
- Built-in power supply/battery charger

**Specifications**

8 Zones	8 programmable EOL fire/ burglary inputs
Ack delay/ Antenna cut	Form C fail security relay contact (local reporting) provides a signal at the transceiver if transmissions are blocked, low battery or charger fail
Radio	Standard frequency range is 440-470 MHz, others available
Standard output power	2 watts, others available. All radio systems require FCC licensing
Power input	16.5VAC, 40VA, UL-listed class II transformer required
Handheld programmer	1 per network (order separately) - used primarily during installation of the transceiver to set transceiver parameters (10R7041)
Voltage	12VDC nominal
Current	150 mA standby, 1.2 A transmit (2 W transmitter)
Back-up battery (order separately)	12V, 7.5AH (24h), lead acid gel type
Low battery reporting	2 minute test cycle (approx.)
AC status reporting	Reports to supervising station after approximately 100-160 minutes without AC power, reports AC power restoral after approximately 100-160 minutes of restored power

Colors	Available in standard colors: burglary beige or fire red. Please specify when ordering
Operating temperature range	0 to 49° C
Storage temperature range	-10 to 60° C
Relative humidity range	0 to 85% RHC, Non-condensing
Box dimensions (approx.) (excluding antenna)	13.25" H x 8.5" W x 4.3" D (34cm x 21.5cm x 11cm)
Box weight (approx.) (excluding battery)	5.6 lbs / 2.6 kg

**Options**

IntelliTap	Satellite/remote dialer data receiver
DataTap™	RS232 serial interface to addressable FACP data receiver*

**\*Note: any fire panel that is monitored by a Keltron transceiver must provide a serial data output or compatible hardware outputs that are active and can be monitored. Review the compatibility charts on the Keltron Web site for more details.**

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet signaling systems, active network radio systems, distributed multiplex systems, digital communicator/receiver systems, and direct wire systems. This document is not intended for installation or maintenance purposes. All specifications are subject to changes without notice. For more information visit [www.keltroncorp.com](http://www.keltroncorp.com) or contact us at 781-894-8710.

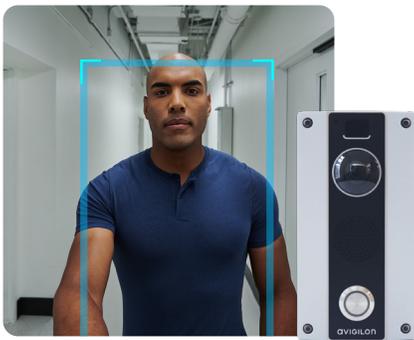




# ACC AND ACM UNIFICATION

## ACCESS CONTROL THAT WORKS SEAMLESSLY WITH VIDEO SECURITY

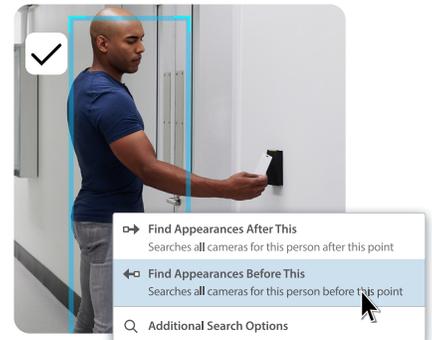
Our Access Control Manager (ACM) system integrates with Avigilon Control Center (ACC) video management software to provide you with one simple, powerful and unified security solution to help you focus on what matters most.



Using ACM™ and ACC™ software, you can instantly verify if a person seen carding in on camera matches the ID photo associated with the access card they're using, then lock or unlock the door right from your ACC client. Respond to H4 Video Intercom calls from anywhere with push notifications from the ACC Mobile 3 app.

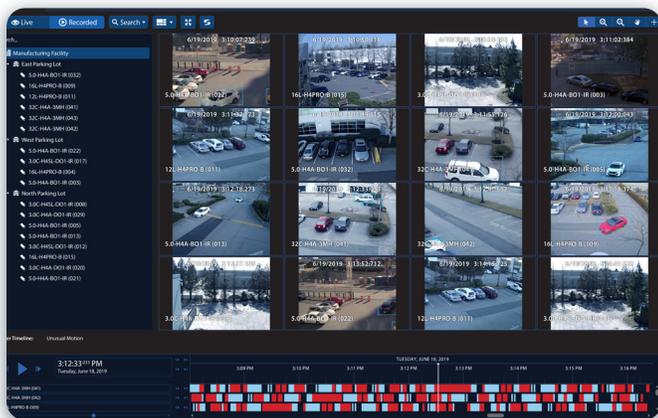


From the same screen you can search for that person by using our Identity Search feature.



Using the video from the most recent time they carded in, you can easily use Avigilon Appearance Search™ technology to help find their current location on-site or to see where else they have been. It's that simple.

## ACC SOFTWARE FEATURES



### POWERFUL SEARCH

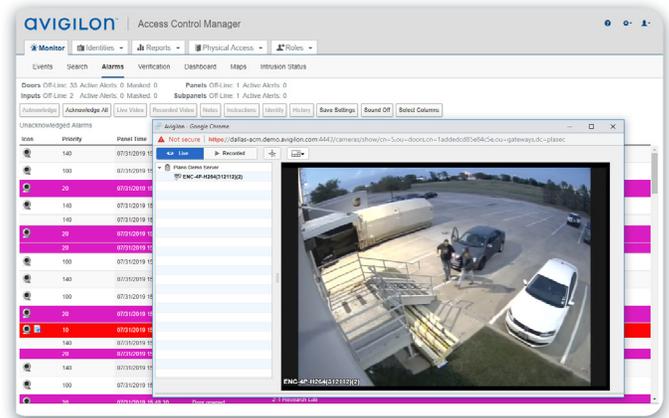
Avigilon Appearance Search technology sorts through hours of video with ease to quickly locate a specific person or vehicle of interest across an entire facility in near real-time.



### FOCUS OF ATTENTION INTERFACE

A cutting-edge user interface for live video monitoring that leverages AI and video analytics technologies to determine what information is important and should be presented to security operators.

## ACM SYSTEM FEATURES



### 100% BROWSER-BASED SYSTEM

No server or client software installation required, delivering a ready-to-deploy solution that saves you time.



### OPEN-PLATFORM HARDWARE

Integrates with hardware from Mercury Security and HID Global® that scales from just a few readers to larger, more distributed installations.

## COMBINED FOR A POWERFUL SECURITY SOLUTION



### IDENTITY SEARCH

Enables fast search for a person of interest using their ACM cardholder information. You can then use Avigilon Appearance Search technology to determine that person's current or previous location on site.



### QUICK ACTION

ACM generated door events allow you to create rule-based actions and notifications for quick on-site responses, including immediate facility lockdown.

For more information visit [avigilon.com/products/access-control/acm-and-acc-unification](https://www.avigilon.com/products/access-control/acm-and-acc-unification)



Some images of product features and user interfaces have been simulated for illustrative purposes.

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300 Shaw Road  
 North Branford CT 06471  
 Phone: 203-484-7749  
 Fax: 203-484-7758  
 www.penn globe.com

DATE	07/13/20
DRAWING NUMBER	010-13768-F360
SPECIFIER	PERKINS EASTMAN
PROJECT NAME	LOWELL, MA
PROJECT NUMBER	74243



Tilt View



**\*\*\* ATTENTION\*\*\***

NEC EQUIPMENT GROUND REQUIRED FOR ALL LED LIGHT FIXTURES. IMPROPER INSTALLATION WILL RESULT IN DAMAGE AND VOIDS ALL WARRANTIES. NOT FOR USE WITH DELTA 208/480 VOLT SPLIT PHASE. CONTACT PENN GLOBE WITH QUESTIONS.

PRIMARY LIGHT SOURCE	PennSTAR® LED
ENGINE CONFIGURATION	PLANNUS
WATTAGE	30W
COLOR TEMP DISTRIBUTION	4000K TYPE III
VOLTAGE	120~277VAC AUTOSENSE
GLOBE	CLEAR UV STABILIZED ACRYLIC
OPTIONS	PennTROL® REPLICA GASLIGHT BURNER TYPE III ASYMMETRIC BLACK SIDE ARMS
FINISH	BLACK TEXTURED 1003XLT
QUANTITY	[   ]

APPROVED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

MODEL NUMBER	DESCRIPTION
F360-GX919-LW925	BOULEVARD 1000—PER CITY OF LOWELL SPECIFICATIONS



## City of Lowell - Law Department

375 Merrimack Street, 3<sup>rd</sup> Floor • Lowell MA 01852-5909  
Tel: 978.674.4050 • Fax: 978.453.1510 • [www.lowellma.gov](http://www.lowellma.gov)

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Christine P. O'Connor  
*City Solicitor*

Kerry Regan Jenness  
*1st Assistant City Solicitor*

Gary D. Gordon  
John Richard Hucksam, Jr.  
Adam LaGrassa  
Stacie M. Moeser  
Elliott J. Veloso  
*Assistant City Solicitors*

August 21, 2020

City Manager Eileen Donoghue  
Mayor John J. Leahy  
And  
Members of the City Council

Re: Lowell High School Project

Dear Manager Donoghue, Mayor Leahy and Members of the City Council:

Attached is a Vote authorizing certain proprietary purchases related to the Lowell High School project.

I am happy to address any questions regarding this matter at Tuesday's meeting.

Sincerely,

Christine P. O'Connor  
City Solicitor

Enclosure