



City Council
COMMITTEE OF THE WHOLE
City of Belvidere, Illinois

Alderman Sheryl Prather	Chairman Building
Alderman Natalie Mulhall	Vice-Chairman Building
Alderman Ric Brereton	Chairman Finance and Personnel
Alderman Wendy Frank	Vice -Chairman Finance and Personnel
Alderman Tom Porter	Chairman Planning & Zoning
Alderman Mike McGee	Vice-Chairman Planning & Zoning
Alderman Clayton Stevens	Chairman Public Safety
Alderman Matthew Fleury	Vice-Chairman Public Safety
Alderman Marsha Freeman	Chairman Public Works
Alderman Daniel Snow	Vice-Chairman Public Works

AGENDA

June 27, 2022
6:00 p.m.
City Council Chambers
401 Whitney Blvd., Belvidere, Illinois

Call to Order:

Roll Call:

Public Comment:

Public Forum:

Reports of Officers, Boards, and Special Committees:

1. Public Safety, Unfinished Business: None.
2. Public Safety, New Business:
 - (A) Police Department – Update.
 - (B) Police – Authorization to Purchase Night Vision Device for Swat.
 - (C) Police – Authorization to Purchase Four Starcom Portable Radios.

(D) Fire Department – Update.

(E) Fire – Authorization to Purchase Annual Subscription with First Due Records Management.

3. Finance & Personnel, Unfinished Business: None.

4. Finance & Personnel, New Business:

(A) Finance Department – Update.

5. Other:

(A) Public Works – Newburg #1 Lift Station Upgrade -WWTP.

(B) Public Works – Resolution for Maintenance Under the Illinois Highway Code.

(C) Executive Session to discuss appointment, employment, compensation, discipline, performance or dismissal of a specific employee or official pursuant to 2(c)(1) of the Open Meeting Act.

6. Adjournment:

Belvidere Police Department



Shane Woody - Chief of Police

Matthew Wallace - Deputy Chief, Investigations

Patrick Gardner - Deputy Chief, Patrol

615 N. Main Street - Belvidere, IL 61008 - Phone 815-544-9626 - Fax 815-544-9603 - www.ci.belvidere.il.us

TO: Mayor Morris and City Council

FROM: Chief Shane Woody

DATE: June 27, 2022

RE: Authorization to Purchase Night Vision Device for SWAT

In 2019 the SWAT team was called to handle a suicidal subject armed with a rifle. The standoff lasted for hours, well into the night. Once night fell and SWAT found themselves having to deal with the subject outside with minimal to no ambient lighting they had difficulty navigating the lighting conditions because they didn't have proper night vision equipment for the situation.

The Belvidere Police Department is respectfully requesting authorization to purchase a Night Vision Device \$4,728.90, night vision mount \$516.80, and adapter \$172.25 for SWAT.

Attached you will find literature for your information pertaining to the request before you.

Motion: To authorize the purchase of an EOTech MonoNV Gen III white phosphor night vision device with Norotos night vision helmet mount and adapter for a total cost of \$5,417.95 using funds budgeted in the Equipment Line Item #01-5-210-8200.



MonoNV

SKU: EOT-MONO-AI-B

Regular price \$4,749.99

The EOTECH® MonoNV monocular is a commercial Image Intensifier Tube Night Vision device built to the same rigorous standard (MIL-STD-810G) as the military AN/PVS-14 system.

The EOTECH® MonoNV monocular is a commercial Image Intensifier Tube Night Vision device built to the same rigorous standard (MIL-STD-810G) as the military AN/PVS-14 system.

This Product is subject to ITAR/EAR Export Controls. Please visit our ITAR/EAR page ([click here](#)) or [Contact Us](#) for more Information.

This multi- purpose monocular is collimated for operation as hand-held, helmet/head-mounted or weapon mounted.

Lightweight and robust construction combined with superior optical characteristics utilizing Gen 3 White Phosphor tube technology gives maximum target detection and recognition range.

FEATURES:

- Compact and robust (MIL-STD-810G)
- Self-contained system operating on a single AA battery
- Integrated IR LED Illuminator for short-range illumination
- Auto-gated power supply improves resolution in high light (urban) environments and provides automatic system cut-off when exposed to intense light, helping to protect the image intensifier tube from damage.
- Internal LED indicators for IR ON and low battery
- Adjustable for ambidextrous operation; head and helmet mounts
- Quick release dovetail mount mechanism
- Manual gain control
- Tilt Auto Off

TECHNICAL SPECIFICATIONS:

- **L × W × H:** 4.6" × 2.1" × 2.9" (116 × 53 × 74mm)
- **Weight:** ≤ 10.6 oz (300g)
- **Power Source:** 1 AA battery — Alkaline or lithium max 2.4 Vdc
- **Battery Life:** @ 73°F / Lithium: approx. 60 / Alkaline: approx. 40
- **Field-of-View:** 40°
- **Minimum Focus Distance:** 9.8 in (25cm)
- **Diopter Adjustments:** +2 to -6
- **Water Resistant:** 66 ft (20m) for 1 hour: MIL-STD 810G
- **Image Intensification Tube:** Gen III White Phosphor
- **Figure Of Merit (FOM):** 2376 minimum FOM



Sales Quote

KIESLER POLICE SUPPLY
 2802 SABLE MILL RD
 JEFFERSONVILLE, IN 47130

Bill-to Customer
 BELVIDERE POLICE DEPT.
 615 NORTH MAIN STREET
 BELVIDERE, IL 61008

Ship-to Address

Your Reference
 Bill-to Customer No. L01528
 Tax Registration No.

 No. Q132124
 Document Date May 26, 2022
 Due Date June 25, 2022
 Payment Terms
 Payment Method
 Tax Identification Type Legal Entity
 Shipment Method
 Chris Washburn <washburn@belviderepolice.com>

Salesperson RYAN
 Email
 Home Page
 Phone No.

No.	Description	Quantity	Unit of Measure	Unit Price Excl. Tax	Line Amount Excl. Tax
PART NUMBER	EOTECH #EOT-MONO-AI-B, MONONV GEN III WHITE PHOSPHOR RLMMEE	1	EACH	4,728.90	4,728.9
SHIPPING	Shipping INCLUDED	1	EACH	0.00	0
FORMAT RYAN	QUOTED BY RYAN DOLD KIESLER POLICE SUPPLY 2802 SABLE MILL RD JEFFERSONVILLE, IN 47130 THIS QUOTE IS VALID FOR 30 DAYS RDOLD@KIESLER.COM	1	EACH	0.00	0
Amount Subject to Sales Tax				0.00	
Amount Exempt from Sales Tax				4,728.90	
Subtotal					4,728.90
Total Tax					0.00
Total \$ Incl. Tax					4,728.90
Tax Amount					0.00

KIESLER POLICE SUPPLY FFL# 4-35-019-11-1M-08220

RETURNED GOODS POLICY

No returned goods will be accepted without prior consent. Any packages returned without properly displaying a return authorization number will be refused. Returns subject to up to 25% restocking fee

DEFECTIVE MERCHANDISE POLICY

We are not a warranty repair station for any manufacturer. Returns of defective merchandise must be made directly to the manufacturer for repair or replacement.

DAMAGED GOODS POLICY

Claims of shortages or damaged shipments must be made immediately upon receipt of shipment.



NOROTOS INVG HYPER MOUNT

☆☆☆☆☆ (be the first to review)
Mount Only

Break-Away Capable, Modular Night
Vision Mount

Recommended Accessories:

Norotos Dual Dovetail Adaptor – [BUY
HERE](#)

KAC/RQE JAMR – [BUY HERE](#)

\$516.80



DESCRIPTION

* NEW PRODUCTION INVG HYPER MOUNTS
AVE A SMOOTH ARM WITHOUT THE NOTCHES

*

* IT IS RECOMMENDED TO US NOROTOS
ELMET MOUNTS WITH NOROTOS SHROUDS.
-HERE MAY BE TOLERANCE STACKING ISSUES
ETWEEN DIFFERENT MANUFACTURERS ***

SPECS

MANUFACTURER	Norotos
MATERIAL	Aerospace Grade Aluminum Alloy, Hard Anodized
VERTICAL ADJUST	1.12" Total Travel



NOROTOS DUAL DOVETAIL ADAPTER PVS-14 THA

☆☆☆☆☆ (be the first to review)
Adaptors & Arms

Dual Dovetail Interface Arm for PVS-14 w True Horizontal Adjustment

\$172.25
IN STOCK



DESCRIPTION

THE DUAL DOVETAIL ADAPTER IS NOT COMPATIBLE WITH WILCOX MOUNTS. THE RECOMMENDED HELMET MOUNT IS THE NOROTOS INVG / INVG HYPER**

*Norotos products are built for military and law enforcement use and test-fitted at the factory, and due to the finishes used, may display wear marks or blemishes from testing, packaging, and storage, and may not have a cosmetically flawless appearance when new. These marks are not indicative of a "used" product***

SPECS

MANUFACTURER Norotos

Belvidere Police Department

Shane Woody - Chief of Police

Matthew Wallace - Deputy Chief, Investigations

Patrick Gardner - Deputy Chief, Patrol



615 N. Main Street - Belvidere, IL 61008 - Phone 815-544-9626 - Fax 815-544-9603 - www.ci.belvidere.il.us

TO: Mayor Morris and City Council

FROM: Chief Shane Woody

DATE: June 27, 2022

RE: Authorization to Purchase Four Starcom Portable Radios

FY 2018 the Department identified the portable radios we used were starting to fail and parts were becoming more and more difficult to find. At that time, we budgeted to replace all 55 radios totaling \$275,000 in Capital expenditures.

In an attempt to minimize financial impact to the City by spreading cost out over time and prevent having to replace all the radios at one time in the future it was decided to budget for 4 radios per year until all the radios had been replaced. Since FY2018 the Department has been approved to purchase 10 new radios.

The Belvidere Police Department is requesting authorization to purchase 4 new portable radios.

The new radios would replace radios that are approximately 15 years old and not in good working condition. 4 portable radios were budgeted for in the Equipment Line Item at a cost of \$16,000.00.

As shown on the attached quote from Motorola Solutions, the current cost of each radio is \$4,411.02. This is approximately a three hundred and fifty-five dollar increase from last years purchase of portable radios.

Motion: To authorize the purchase of four (4) Motorola Starcom APX 4000 Portable Radios and accessories for a total cost of \$17,644.08 using funds budgeted in the Equipment Line Item #01-5-210-8200.



MISSION READY WHEN IT MATTERS MOST

APX™ 4000 PROJECT 25 PORTABLE RADIO

Chemical spill. Catastrophic storm. Power outage. When every minute matters, you must communicate instantly with other agencies and responders. But how do you prepare for a disaster and keep control of operating costs? That's where the APX 4000 P25 portable radio answers the call, expertly and affordably.

The APX 4000 delivers all the benefits of TDMA technology in the smallest P25 capable portable in the industry. Easy to use, tough as nails, a hard value to beat, it seamlessly connects agencies throughout your city for fast, interoperable communications.

TRUSTED APX QUALITY

The APX 4000 leverages the leading attributes of the APX family of P25 TDMA portables. From the 2-microphone design that reduces background noise so you can speak and hear clearly over heavy equipment, diesel engines and sirens to the high-spec RF performance for excellent coverage in challenging environments.

With its easy-to-use interface, color display, intelligent lighting and radio profiles, you get all the power of APX in a compact radio. Plus, you can extend the performance of your radio with a complete portfolio of industry-leading IMPRES™ smart energy and audio accessories.

COMPACT AND UNCOMPROMISING

A compact P25 Phase 2 capable portable, the APX 4000 gets the job done without getting in the way. With two dedicated knobs for volume and channel control, the APX 4000 provides readiness for any type of work setting. And its standard IP67 and MIL-STD certified to withstand dust, heat, shock, drops and water immersion, so you can count on it wherever you need it – at the factory line, power line or fire line.

P25 PERFORMANCE, INSIDE AND OUT

Loaded with key P25 features to increase safety, the APX 4000 features Mission Critical Wireless. This unique Bluetooth® solution provides an encrypted link to a high performance earpiece, GPS for quickly locating personnel outdoors, AES encryption for improved security, and over-the-air programming to program radios in the field without interrupting voice operation.

IMPROVE RESPONSE AND EXPENSES

The APX 4000 is P25 Phase 2 capable for twice the voice capacity so you can add more users without adding more frequencies or infrastructure. And it's backwards and forwards compatible with all Motorola mission critical radio systems, so you can interoperate with confidence while you improve operating expenses.

POWER UP WITH APX 4000 ACCESSORIES

- Designed, tested and certified for optimum performance with your radio.
- Complete portfolio of remote speaker microphones, headsets and Mission Critical Wireless Bluetooth® accessories.
- High-powered IMPRES™ batteries that have a slim design to fit the compact radio size.



FEATURES AND BENEFITS

Available in 700/800 MHz, VHF, UHF R1, UHF R2 and 900 MHz bands

- Trunking standards supported:
 - Clear or digital encrypted ASTRO®25 Trunked Operation
 - Capable of SmartZone®, SmartZone Omnilink, SmartNet®
- Analog MDC-1200 and Digital APCO P25 Conventional System Configurations
- Narrow and wide bandwidth digital receiver (6.25 kHz equivalent / 12.5 kHz / 30 kHz / 25 kHz)¹
- Standard with 2 dedicated control knobs for volume and channel changes
- Embedded digital signaling (ASTRO & ASTRO 25)
- Intelligent Priority Scan
- Man Down
- Available in 2 models
- Lightbar with Intelligent Lighting
- Radio Profiles
- Unified Call List
- Software Key
- ASTRO 25 Integrated Voice & Data
- User programmable Voice Announcement
- Instant Recall
- Meets Applicable MIL-STD-810C, D, E, F and G
- IP67 standard

- Rugged Submersible housing (2 meters for 2 hours)²
- Superior Audio Features:
 - 0.5 W high audio speaker
 - 2-mic noise canceling technology
- Integrated GPS/GLONASS for outdoor location tracking
- Utilizes Windows XP, Vista and Windows 7 and 8 Customer Programming Software (CPS)³
 - Supports USB communications
 - Built in FLASHport™ support
- Full portfolio of accessories including IMPRES batteries, chargers and audio devices⁴
- Mission Critical Wireless Bluetooth²

OPTIONAL FEATURES

- AES Encryption
- Programming Over Project 25
- Text Messaging
- Man Down
- Site Selectable Alert Tones
- P25 Link Layer Authentication
- Enhanced Data
- Rugged Option: Mil Std 512.X, Delta - T

¹ Per the FCC Narrowbanding rules, new products (APX7000 UHF R1 with UHF R2 combination) submitted for FCC certification after January 1, 2011 are restricted from being granted certification at 25KHz for United States - State & Local Markets only.
² Compatible with BT 2.1 HSP, PAN, DUN and SPP BT Profiles.
³ CPS version R12.00.00 and greater ordered after June 2014 will only support Windows 7 and 8
⁴ Chargers and batteries for the APX 4000 radios are not compatible with other APX radios.

TRANSMITTER - TYPICAL PERFORMANCE SPECIFICATIONS

		700/800	VHF	UHF Range 1	UHF Range 2	900 MHz ⁶
Frequency Range/ Bandplits	700 MHz 800 MHz	763-776, 793-806 MHz 806-824, 851-870 MHz	136-174 MHz	380-470 MHz	450-520 MHz	896-902, 935-941 MHz
Channel Spacing		25/12.5 kHz	30/25/12.5 kHz	25/12.5 kHz	25/12.5 kHz	12.5 kHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj ¹		1-3 Watts Max	1-5 Watts Max	1-5 Watts Max	1-5 Watts Max	1-2.5 Watts Max
Frequency Stability ¹ (-30°C to +60°C; +25°C Ref.)		±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %
Modulation Limiting ¹		±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz	±2.5 kHz
Emissions (Conducted and Radiated) ¹		-75 dB	-75 dB	-75 dB	-75 dB	-75 dB
Audio Response ¹		+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise	25 kHz 12.5 kHz	-47 dB -45 dB	-47 dB -47 dB	-47 dB -45 dB	-47 dB -45 dB	-45 dB
Audio Distortion ¹	25 kHz 12.5 kHz	1.00%	1.00%	1.00%	1.00%	1.00%

BATTERIES FOR APX 4000

Battery Capacity / Type	Dimensions (HxWxD)	Weight	Battery Part Number	Battery Capacity
Li-Ion IMPRES 1900 mAh IP67**	114.5x55.04x17.85	150 grams	NNTN8128A	1900 mAh
Li-Ion IMPRES 2300 mAh IP67 Non-HazLoc	114.5x55.04x23.15	160 grams	PMNN4424AR	2300 mAh
Li-Ion IMPRES 2300 mAh IP67 HazLoc*	114.5x55.04x23.15	210 grams	NNTN8560A	2500 mAh
Li-Ion IMPRES 2700 mAh IP54 Non-HazLoc	114.5 x 55.04 x 23.15	160 grams	PMNN4448AR	2700 mAh

*When used with a Hazardous Location tested radio.
 ** Standard shipping battery

RADIO MODELS



MODEL 2



MODEL 3

Display	Full bitmap color LCD display 3 lines of text x 14 characters 1 line of icons 1 menu line x 3 menus White backlight	Full bitmap color LCD display 3 lines of text x 14 characters 1 line of icons 1 menu line x 3 menus White backlight
Keypad	Backlight keypad 3 soft keys 4 direction Navigation key Home and Data buttons	Backlight keypad 3 soft keys 4 direction navigation key 4x3 keypad Home and Data buttons
Channel Capacity	512	512
FLASHport Memory	64 MB	64 MB
700/800 MHz (763-870 MHz)	H51UCF9PW6AN	H51UCH9PW7AN
VHF (136-174 MHz)	H51KDF9PW6AN	H51KDH9PW7AN
UHF Range 1 (380-470 MHz)	H51QDF9PW6AN	H51QDH9PW7AN
UHF Range 2 (450-520 MHz)	H51SDF9PW6AN	H51SDH9PW7AN
900 MHz (896-902, 935-941MHz)	H51WCF9PW6AN	H51WCH9PW7AN
Buttons & Switches	Large PTT button ■ Angled On/Off Volume Control ■ 16 position top-mounted rotary switch ■ Orange emergency button ■ 3 programmable side buttons	
TRANSMITTER CERTIFICATION		
700/800 (764-869 MHz)	AZ489FT7049	
VHF (136-174 MHz)	AZ489FT3828	
UHF Range 1 (380-470 MHz)	AZ489FT4905	
UHF Range 2 (450-520 MHz)	AZ489FT4910	
900 MHz (896-901, 935-940 MHz)	AZ489FT5864	
FCC EMISSIONS DESIGNATORS		
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 20K0F1E*	
FCC Emissions Designators for 900 MHz	11K0F3E, 8K10F1D, 8K10F1E, 8K10F1W	
POWER SUPPLY		
Power Supply	One rechargeable Li-Ion 1900 mAh battery standard, with alternate battery options available.	

RECEIVER - TYPICAL PERFORMANCE SPECIFICATIONS

		700/800	VHF	UHF Range 1	UHF Range 2	900 MHz
Frequency Range/Bandsplits	700 MHz 800 MHz	763-776 MHz 851-870 MHz	136-174 MHz	380-470 MHz	450-520 MHz	900 MHz (896-902, 935-941MHz)
Channel Spacing		25/12.5 kHz	30/25/12.5 kHz	25/12.5 kHz	25/12.5 kHz	12.5 kHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated ¹		500mW	500mW	500mW	500mW	500mW
Frequency Stability ¹ (-30°C to +60°C; +25°C Ref.)		±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %
Analog Sensitivity ²	12 dB SINAD	0.250µV	0.216µV	0.234µV	0.234µV	0.236µV
Digital Sensitivity ⁴	1% BER (800 MHz)	0.400µV	0.277µV	0.307µV	0.307µV	0.33µV
	5% BER	0.250µV	0.188µV	0.207µV	0.207µV	0.222µV
Selectivity ¹	25 kHz channel	-76 dB	-76 dB	-76 dB	-76 dB	
	12.5 kHz channel	-67 dB	-70 dB	-67 dB	-67 dB	-67 dB
Intermodulation		-75 dB	-79 dB	-77 dB	-77 dB	-75 dB
Spurious Rejection		-76.6 dB	-80.5 dB	-80.3 dB	-80.3 dB	-80 dB
FM Hum and Noise	25 kHz	-53 dB	-51 dB	-50 dB	-50 dB	
	12.5 kHz	-47 dB	-45 dB	-45 dB	-45 dB	-47 dB
Audio Distortion ¹		1.00%	1.00%	1.00%	1.00%	1.00%

PORTABLE MILITARY STANDARDS 810 C, D, E, F & G

	MIL-STD 810C		MIL-STD 810D		MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.	Method	Proc./Cat.
Low Pressure	500.1	I	500.2	II	500.3	II	500.4	II	500.5	II
High Temperature	501.1	I, II	501.2	I/A1, II/A1	501.3	I/A1, II/A1	501.4	I/Hot, II/Basic Hot	501.5	I/A1, II/A2
Low Temperature	502.1	I	502.2	I/C3, II/C1	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temperature Shock	503.1	I	503.2	I/A1C3	503.3	I/A1C3	503.4	I	503.5	I/C
Solar Radiation	505.1	II	505.2	I	505.3	I	505.4	I	505.5	I/A1
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, III	506.5	I, III
Humidity	507.1	II	507.2	II	507.3	II	507.4	1 Proc	507.5	II/Aggravated
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	1 Proc	509.5	1 Proc
Blowing Dust	510.1	I	510.2	I	510.3	I	510.4	I	510.5	I
Blowing Sand	1 Proc	1 Proc	510.2	II	510.3	II	510.4	II	510.5	II
Vibration	514.2	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.2	I, III, V	516.3	I, V, VI	516.4	I, V, VI	516.5	I, V, VI	516.6	I, V, VI
Shock (Drop)	516.2	II	516.2	IV	516.4	IV	516.5	IV	516.6	IV

DIMENSIONS OF THE RADIOS WITHOUT BATTERY

	Inches	Millimeters
Length	5.42	137.7
Width Push-To-Talk button	2.42	61.4
Depth Push-To-Talk button	1.41	35.75
Width Top	2.62	66.55
Depth Top	1.84	46.7
Weight of the radios without battery	10.05 oz	285 g

GPS SPECIFICATIONS

Channels	12
Tracking Sensitivity	-159 dBm
Accuracy ³	<10 meters (95%)
Cold Start	<60 seconds (95%)
Hot Start	<10 seconds (95%)
Mode of Operation	Autonomous (Non-Assisted) GPS

ENCRYPTION

Supported Encryption Algorithms	AES/ADP
Encryption Algorithm Capacity	8
Encryption Keys per Radio	Module capable of storing 1024 keys. Programmable for 48 Common Key Reference (CKR) or 16 Physical Identifier (PID)
Encryption Frame Re-sync Interval	P25 CA1 300 mSec
Encryption Keying	Key Loader
Synchronization	XL – Counter Addressing OFB – Output Feedback
Vector Generator	National Institute of Standards and Technology (NIST) approved random number generator
Encryption Type	Digital
Key Storage	Tamper protected volatile or non-volatile memory
Key Erasure	Keyboard command and tamper detection
Standards	FIPS 140-2 Level 3; FIPS 197

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature ⁵	-30°C / +60°C
Storage Temperature ⁶	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2 KV
Water and Dust Intrusion	Mil Std 512.X, Delta - T

Motorola Solutions, Inc. 1301 East Algonquin Road Schaumburg, Illinois 60196, U.S.A. 800-367-2346
motorolasolutions.com

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Belvidere Police Department

PURCHASE ORDER NUM: 04/29/2022
 PURCHASE ORDER DATE: April 29, 2022
 VENDOR ID: Motorola Solutions, Inc. C/O Rock River Service Company
 AUTHORIZED: Pat Molloy
 patmolloy@boonecountysheriff.com
 815-547-6467
 TERMS: NET30
 QUOTE: 1744583

VENDOR	SHIP TO:	BILL TO:
Motorola Solutions, Inc.	Belvidere Police	Belvidere Police
C/O Rock River Service Co	615 N. Main Street	615 N. Main Street
	Belvidere, IL 61008 USA	Belvidere, IL 61008 USA

QUAN	ITEM	DESCRIPTION	UNIT PRICE	TOTAL
1	APX4000	Motorola APX4000 Starcom portable w/charger, speaker mic and spare battery	\$4,411.02	\$17,644.08
			TOTAL	\$17,644.08

Signature Title Date

Belvidere Police Department

PURCHASE ORDER NUM: 04/29/2022
 PURCHASE ORDER DATE: April 29, 2022
 VENDOR ID: Motorola Solutions, Inc. C/O Rock River Service Company
 AUTHORIZED: Pat Molloy
 patmolloy@boonecountysheriff.com
 815-547-6467
 TERMS: NET30
 QUOTE: 1744583

VENDOR	SHIP TO:	BILL TO:
Motorola Solutions, Inc.	Belvidere Police	Belvidere Police
C/O Rock River Service Co	615 N. Main Street	615 N. Main Street
	Belvidere, IL 61008 USA	Belvidere, IL 61008 USA

QUAN	ITEM	DESCRIPTION	UNIT PRICE	TOTAL
1	APX4000	Motorola APX4000 Starcom portable w/charger, speaker mic and spare battery	\$4,411.02	\$17,644.08
			TOTAL	\$17,644.08

Signature

Title

Date

Fire Chief: Shawn Schadle

Administers all activities of the fire department, including but not limited to, clearly defining, and assigning all rules, roles, and responsibilities so that the Belvidere Fire Department serves the Community by providing emergency rescue and fire protection services that exceed expectations; so that the fire department is there for the community at their greatest times of need.

Administrative Assistant: Chris Gilman

Assists with all administrative activities, including but not limited to, the verification of payroll activities through ADP, prepare and process all claim vouchers and bills, maintain records for all department payables and receipts, and keeping of all associated records. Responsibilities also include assisting all coordinators and managers with record keeping as requested. Will assist with ordering supplies and equipment as requested. Will assist with inspections activities and records as requested. Will maintain all pension records. Will create and distribute department postings and notifications as requested.

EMS Coordinator: Capt. David Burdick

Responsible for the administration of all the departments EMS activities and supplies including managing the EMS budget and acting as the liaison to our resource hospital. Responsible for managing the BLS/ALS initial licensure and continued licensure of all members. Responsible for ensuring compliance with all IDPH and Region 1 System requirements for our EMT's and response vehicles. The EMS coordinator is responsible to perform the duties of or designate someone to be the Infection Control Officer for the Belvidere Fire Department.

Infection Control Officer: Capt. Chad Cunningham

Responsibilities include but are not limited to all compliance and training related to Belvidere Fire Exposure Control Plan related to the occupational exposure to bloodborne pathogens, airborne and droplet transmitted diseases.

Public Education and Public Relations Coordinator: Capt. Chad Cunningham

Responsible for administering all public education and public relations activities and the associated budget. This includes but is not limited to our 2nd Grade outreach, social media, Red Cross initiatives, on duty outreach, MDA collections, department picnics/events, planning the open house, Honor Guard, and Explorers Program.

Honor Guard: Jim Kriebs, Mark Beck, Greg Pavlatos, Aaron Pihl, and Glen Williams.

Responsible for performing honor guard duties including, but not limited to, funerals, ceremonies, and events as requested.

Explorers Program: Ron Herman

Responsible to create interest and training for potential local candidates who are curious about becoming firefighters through our explorer program.

CPR: Bobbly Gunsteen

Responsible for scheduling and delivery of CPR instruction to the public.

Child Safety Seats: Bobby Gunsteen

Responsible for administering the departments Child Safety Seat initiatives including but not limited to managing the initial and continuing education related to the certification of Child Safety Seat Technicians.

Inspection Coordinator: Capt. Chris Letourneau

Responsible administering the departments inspections activities and budget for all inspections related activity including but not limited to new business, occupancy changes, as needed inspections, and annual inspections; and managing the associated budget.

Lead Inspector: Mark Beck

Responsible for managing the workflow systems and direct all building inspections done by Belvidere Fire sworn personnel.

Building Inspectors: Lt. Travis Tangye, Jim Kriebs, and Jeff Vaughan

Responsible for all building inspections under the direction of the lead inspector.

Apparatus Coordinator: Lt. Jason Swanson

Responsible for fleet management and maintenance including but not limited to procurement, sale, compliance, equipment placement on department apparatus, and managing the apparatus maintenance budget.

Stations Coordinator: Lt. Dan Drall

Responsible for the maintenance of the department stations and station supplies including but not limited to the structures themselves, the grounds, the apparatus bays and aprons and all associated station systems such as heating, cooling, lighting and electrical; and managing the associated budget.

Training Coordinator: Lt. Travis Tangye

Responsible for administering the departments training program. Duties include but not limited to coordinate the planning and expense of inside training, outside training, state certifications and compliance with all governing bodies.

EMS Training: Captain David Burdick

Command Training: Captain David Burdick

Recruit Training: TBD

Fire Training: Lt. Dan Drall assisted by Nic Thornton

Hazmat Training: Mark Beck

Water Rescue/Rescue Diver Training: Lt. Dan Drall assisted by Stephen Mead, and Zach Bullard.

Technical Rescue Training: Jim Kriebs

Active Shooter/Mass Casualty Training: Stephen Mead assisted by Brad Heiser, Joe Erber, and Greg Pavlatos.

Fire Apparatus Engineer and Driver Training: Jim Kriebs

Standard Operating Policies and Guidelines (SOPs/SOGs): Capt. Chris Letourneau

Rules and Regulations Training: Capt. Chris Letourneau

Company Level Inspections Training: Mark Beck

CPR Training: Bobby Gunsteen

CISM Training: Kevin Fox

MABAS Coordinator: Capt. Chris Letourneau

Responsible to be the department liaison for all MABAS administrative activities.

MABAS Box Cards: Kevin Fox

Responsible for maintenance of all box cards and will act as a liaison to other MABAS members for box card changes.

Emergency Planning Coordinator: Nic Thornton

Responsible for all emergency planning. Liaison to all department heads, LEPC, and Boone County EMA for all emergency planning purposes including but not limited to disaster planning, new business planning, and the formation of Incident Action Plans (IAPs) for events.

Emergency Communications Manager: Adam Ellwanger

Responsible for the procurement and maintenance of all emergency communications equipment including but not limited to portable radios, mobile radios, station radios, station alerting, pagers, and alerting apps such as Active 911, and Edispatches; and managing the associated budget.

Department Uniform Manager: Ron Herman

Responsible for the selection of the official department uniform items.

Self-Contained Breathing Air Manager: Matt Loudenbeck

Responsible for procurement, maintenance, and compliance testing of all self-contained breathing air equipment including self-contained breathing apparatus, and compression systems.

Hazardous Materials Response Manager: Mark Beck

Responsible for response preparedness for incidents involving hazardous materials including but not limited to procurement and maintenance of HazMat monitors, suits, equipment, and trailer. Also manages members of the BFD on MABAS 8 Hazmat Team.

Technical Rescue Response Manager: Jim Kriebs

Responsible for response preparedness for incidents involving technical rescue including but not limited to procurement and maintenance of TRT equipment, and trailer. Also manages members of the BFD on MABAS 8 TRT Team.

Water Rescue and Dive Response Manager: Lt. Dan Drall

Responsible for response preparedness for incidents involving water including but not limited to procurement and maintenance of watercraft, suits, equipment, and trailer. Also manages members of the BFD on MABAS 8 Water Rescue Team.

TEMS Manager: Stephen Mead

Responsible for procurement, maintenance and compliance of TEMS gear and manages members of the BFD on TEMS Team.



**BELVIDERE
FIRE
DEPARTMENT**

**123 S. State St.
Belvidere, IL 61008**

From the Office of the Fire Chief

(815)544-2242

Fax (815)544-2278

Memorandum

From:	Chief Schadle	Today's Date:	June 22, 2022
To:	Mayor and Council	Subject:	Records Management Suite

Records management is vital to our organization for compliance, liability reduction, and preplanning. We began using Firehouse Software on January 1, 1998. Since then, we have recorded 59,427 incidents. All run data, times, involvements, and narratives of the incidents are recorded.

Firehouse is also used to capture inspection activities, fire investigations, daily activities, personnel records, apparatus records, scheduling activities, inventories, invoicing, and staffing records. Firehouse Software is the most widely used software for records management in the Fire Service.

On October 3rd, 2017, ESO software announced the acquisition of Firehouse Software, and it was clear from the beginning that they bought it to cannibalize it. Since that announcement we have been working on finding a suitable replacement. On October 21st, 2021, ESO announced Firehouse Software's end-of-life to occur on December 31st, 2022.

Firefighter Beck was tasked with finding a suitable replacement, and diligently researched all our options. He spent countless hours over the past few years meeting with vendors and other fire department representatives to see what others are doing and what our best option moving forward would be.

He considered First Due, ESO, Fire Manager, Zoll, Image Trend, Fireworks EPR, Emergency Reporting and others. The two most appropriate, all-inclusive options are First Due and ESO. First Due costs \$16,900 annually with no implementation charges. ESO costs \$18,681 including implementation charges, and then \$16,718 annually. Firefighter Beck recommends that we utilize the First Due Suite. Data transfer and implementation will take place over the next 5 months with a go live date of January 1st, 2023.

I support Firefighter Beck's recommendation to utilize First Due. This is an anticipated expense and has been budgeted for under line item 01-5-220-7020.

Recommended Motion:

Motion to purchase annual subscription to utilize First Due Records Management Suite at a cost of \$16,900 to be paid for out of line item 01-5-220-7020.

Respectfully Submitted,

Chief Shawn Schadle

06/07/2022

Dear Chief Schadle and Council,

Last year we learned that the current database software FIREHOUSE will no longer be supported after December 31, 2022. We were also advised it was no longer a secure platform. It has done us well for nearly 30 years. Our current database is an all-in-one system. This opened the opportunity to search for a new software that could better meet our changing needs of the fire service. Features we looked for in our search was first to integrate our years of data from our businesses and inspections. We wanted the database to be cloud based system to use tablets in real time for our officers during incidents and inspectors during onsite inspections. The other features included a CAD system interface with dispatch, asset inventory management, availability to generate specialized reports, scheduling module and customer support.

The process included looking at several different software companies that are working to fill the void caused by FIREHOUSE being discontinued. The question is which software database meets the criteria of the features we desire. Several good companies to chose from but only one provided the all-in-one option at this time.

"First Due" software provides its database coming from a fire prevention perspective. Gathering information about locations to keep our responders safe through preplanning. This in turns helps provide proactive service to our citizens to ensure their safety. First Due provides regular updates to software and stores all cloud base data in the U.S. They meet the required federal reporting standards for fire and EMS reporting. The database can be accessed from IOS or Android tablets. The most beneficial feature with First Due that I can see is their customer support.

During the implementation phase of the software, we are assigned a client success manager that will not change along with implementation manager that will not change. This also includes 24/7 tech support as well. After the implementation phase we are assigned the same client success manager for the duration of our contract, and we still get the 24/7 tech support. They will aid us to preparing our current database for integration. They provide train the trainer training via Zoom for each module. During this phase we will be in contact with these managers two or three times a week to ensure a smooth transition. First Due offers the availability to customize our forms and will assist us in that process.

Implementation is typically scheduled to take four to five months. Our go live date with all modules is to be in place come January 1, 2023. First Due does a gradual roll out of the modules for new customers. Attached is an example of the implementation phase and gradual roll out.

Pricing of the software has changed instead of buying a disk of the software you own and pay an annual support fee; it is now an annual subscription which includes that support. Please find attached quote from First Due. Additional quotes provided for reference.

After several months of research, demos, webinars, zoom calls, and phone calls. I recommend we proceed forward with First Due software database to replace Firehouse software database.

Sincerely,

FF Mark Beck



107 Seventh St, Garden City
New York, 11530, United States

First Due Quote

Prepared By: Joseph Robinson
Valid Until: Oct 1, 2022
Quote Number: 154513200090316340

Belvidere Fire Department

We are excited to present pricing for the First Due Suite! Please see detailed breakdown below. It is important to note that First Due is a cloud-based system, and all Support, Maintenance, Hosting and Upgrades are ALWAYS INCLUDED.

First Due Modules and Implementation Services Included - Description

Occupancy Management & Pre-Incident Planning

Manage Occupancies, Hydrants, Pre-Incident Mapping, GIS data, Fire Systems, Hazardous Material, and Contacts.

Inspections

Field Inspections, Configurable Checklists, Violation Management, Virtual Inspections, Inspections Scheduler, and Integrated Pre-Incident Planning.

Invoicing

Invoice Management, Bulk Mailing, Billing Report and Customizable Fee Schedules.

Incident Reporting - NFIRS

NFIRS Incident Documentation, State and Federal Compliance with automated submission.

Scheduling

Manage staff schedules with an interactive shift board, configurable call shifts module, messaging, time-off and shift trades.

Personnel Management

Store, Manage and Access Employee Records including demographic data, certifications and employment information.

Events & Activities

Create Events, View Global Activity Log, and Access Global Calendar.

Assets & Inventory

Assets, equipment and inventory management, assets and equipment checks, and work order management.

Responder

Web Responder dashboard and Responder iOS/Android App with notifications, statusing and routing.

Implementation and Configuration Services

Services related to configuring and customizing the First Due Platform as described in the Statement of Work.

CAD Integration

Automated importing of CAD calls via XML, Database Connector, or API.

Total Year 1	\$ 16,900.00
Annual Subscription	\$ 16,900.00



Quote Date: 05/23/2022
Customer Name: Belvidere Fire Department (IL)
Quote #: Q-68530
Quote Expiration date: 05/02/2022
ESO Account Manager: Chase Ciabaugh

CUSTOMER CONTACT

Customer Belvidere Fire Department (IL)
Name Mark Beck
Email mbeck@belviderefire.com
Phone (815) 544-2740

BILLING CONTACT

Payor Belvidere Fire Department (IL)
Name Alan Hyser
Email belvfire@aol.com
Phone 815-544-2242

Address 123 South State Street
Belvidere IL, 61008
Billing Frequency Annual
Initial Term 12 months

EHR

Product	Volume	Total	Fee Type
ESO EHR	2100 Incidents	\$4,740.50	Recurring

Scheduling

Product	Volume	Total	Fee Type
ESO Scheduling Plus	30 Employees	\$2,085.25	Recurring
ESO Scheduling - Setup & Online Training	3 Sessions	\$892.50	One-time

Asset Management/Checklist

Product	Volume	Total	Fee Type
Assets-Checklist Bundle	6 Vehicles	\$1,990.25	Recurring
Asset Management and Checklist - Training and Implementation	6 Vehicles	\$475.00	One-time

Fire

Product	Volume	Total	Fee Type
ESO Fire Incidents	2 Stations	\$2,175.50	Recurring
ESO Inspections	2 Stations	\$988.00	Recurring
ESO Properties	2 Stations	\$845.50	Recurring
ESO Activities - Fire and Fire/EMS Agencies	2 Stations	\$494.00	Recurring
ESO Hydrants	2 Stations	\$684.00	Recurring
Properties/Inspections Data Import	2 Stations	\$0.00	One-time
Fire Incidents NFIRS Data Import	2100 Incidents	\$0.00	One-time
Fire Setup & Online Training	2 Sessions	\$595.00	One-time



Quote Date: 05/23/2022
Customer Name: Belvidere Fire Department (IL)
Quote #: Q-68530
Quote Expiration date: 05/02/2022
ESO Account Manager: Chase Clabaugh

On Demand Learning

Product	Volume	Total	Fee Type
On Demand Learning	30 Employees	\$1,295.00	Recurring

Personnel Management

Product	Volume	Total	Fee Type
Personnel Management	30 Employees	\$1,420.25	Recurring

Total Recurring Fees	\$	16,718.25
Total One-Time Fees	\$	1,962.50
TOTAL FEES	\$	18,680.75

DRAFT



Quote Date: 05/23/2022
Customer Name: Belvidere Fire Department (IL)
Quote #: Q-68530
Quote Expiration date: 05/02/2022
ESO Account Manager: Chase Clabaugh

EHR

Product	Description
ESO EHR	Patient care reporting suite, includes EHR web and mobile client, Quality Management, AdHoc Reports, Analytics, Patient Tracker. Allows for unlimited users, unlimited mobile applications, live support, state and federal data reporting, ongoing weekly web training, software updates and upgrades.

Asset Management/Checklist

Product	Description
Assets Checklist Bundle	Web-based asset management and apparatus checklist for Fire and EMS.
Asset Management and Checklist - Training and Implementation	Training and configuration to include; group admin training, agency specific web-based sessions, online training and pre-recorded end user training.

Fire

Product	Description
Fire Setup & Online Training	Setup and Webinar Training Session for ESO Fire.
ESO Hydrants	Inventory and document testing and status of hydrants.
ESO Fire Incidents	Includes Auto EHR-import or Auto-CAD import, federal NFIRS data reporting, software updates and upgrades.
ESO Inspections	Includes the ability to manage multiple code sets, using those to developed customized Check-lists for inspections. The application allows you to schedule, manage, execute and finalize inspections as well as reschedule any required follow up inspections.
ESO Properties	Includes CAMEO integration, Pre-Plan view. Stores property and occupant history (presence of chemicals and tanks, Incidents, and previous inspections).
Fire Incidents NFIRS Data Import	Data migration from previous RMS platform.
Properties/Inspections Data Import	Data migration of Properties data and inspection reports into ESOs Properties and Inspections applications from a previously used RMS.
ESO Activities - Fire and Fire/EMS Agencies	Application for tracking non-response activities, including Operations and Community Risk Reduction and Daily Log.

Personnel Management

Product	Description
Personnel Management	Includes tracking of Training classes, certifications, credentials, immunization records. Integrated with ESO EHR and Ad Hoc Reporting.

Scheduling

Product	Description
ESO Scheduling - Setup & Online Training	Webinar Training Session.
ESO Scheduling Plus	Online scheduling, messaging and detailed reporting, plus web-based time clock, attendance tracking, time off management and payroll output files.

On Demand Learning

Product	Description
On Demand Learning	Unlimited, online training for all ESO products.

Zoll Software

- Pro: Price
- Good EMS software
- Con: Newer to the fire reporting software
- Only three years of data transferred
- No Scheduling
- No maintenance module
- Limited asset management

Fireworks (EPR)

- Pro: None
- Con: Newer to fire and EMS reporting
- Cumbersome flow of database
- Multiple logins to access data and make changes
- Price

ESO

- Pro: Current parent company of Firehouse
- Majority of data transfer
- Excellent EMS reporting
- Con: Poor Support
- Does not have all the modules currently (in process been told that for over a year)
- Price
- Other departments would not recommend and are leaving this software.

First Due

- Pro: Customer Support
- Majority data transfer
- All modules developed
- Neighboring departments moving from ESO to First Due or currently use First Due
- Con: Price

Hypothetical Implementation Schedule First Due Software

- 7/11 Sign Contract
- 7/15 Receive Implementation Schedule
- 7/15 Work on Inspection and Preplan module integration
- 8/12 Go live with Inspection and Preplan module
- 8/15 Work on Assets and Inventory module integration
- 9/9 Go live with Assets and Inventory module
- 9/12 Work on Personnel Management and Invoicing modules
- 9/30 Go live with Personnel Management and Invoicing modules
- 10/3 Work on Scheduling module
- 10/24 Go live with Scheduling module
- 10/24 Work on Events and Activities module
- 11/14 Go live with Events and Activities module
- 11/14 Work on NFIRS and EMS Reporting
- 12/12 Complete work on NFIRS and EMS reporting
- 12/31 Stop data entry into Firehouse Software
- 1/1/23 Go Live with NFIRS and EMS reporting

How long implementation takes and how smoothly depends on BFD being ready for each step a,d how much information we want from Firehouse and being able to get that information easily. Recommended to delegate personnel to each module to work with First Due for that module.

Example:

Inspection/Preplanning	Inspectors
EMS Reporting	Capt. Burdick, Gunsteen
Invoicing	Mrs. Gilman,
Assets Management	Lt. Swanson,
Scheduling	Lt. Drall,
Events/Activities	Capt. Letourneau,

Memo

To: Mayor and City Council
From: Brent Anderson, Director of Public Works
Date: 6/21/2022
Re: Newburg #1 Lift Station Upgrade - WWTP

CES has completed the redesign of the Newburg #1 Lift Station and we have received the following proposals to complete the necessary upgrades:

PUMPS & EQUIPMENT

- | | |
|---|-------------|
| 1. Gasvoda & Associates, Inc
1530 Huntington Drive
Calumet City, IL 60409 | \$41,029.00 |
| 2. Xylem Water Solutions
9661 19 th Street
Mokena, IL 60448 | \$45,352.40 |

INSTALLATION

- | | |
|--|-------------|
| 1. Ceroni Piping Company
7770 Ceroni Road
Cherry Valley, IL 61008 | \$13,698.00 |
| 2. Stenstrom Excavation & Blacktop Group
2422 Center Street
Rockford, IL 61125 | \$35,118.00 |

ELECTRICAL

- | | |
|---|------------|
| 1. Engel Electric
5280 11 th Street
Rockford, IL 61109 | \$7,686.00 |
| 2. Helm Service
2279 E Yellow Creek Rd
Freeport, IL 61032 | \$8,600.00 |

A motion to waive the bidding requirement will be necessary as only two proposals were received for these work items.

I would recommend the following motions:

Motion to approve the purchase of two 15HP Grundfos pumps, base elbows and stainless steel guiderails from Gasvoda and Associates in the amount of \$41,029.00. This equipment will be paid for from Sewer Depreciation Fund #61-1780.

Motion to approve proposal from Ceroni Piping, in the amount of \$13,698.00, for replacement of the pumping equipment at the Newburg #1 lift station, including bypass pumping. This work will be paid for from Sewer Depreciation Fund #61-1780.

Motion to approve proposal from Engel Electric, in the amount of \$7,686.00, for the electrical upgrades to Newburg #1 lift station. This work will be paid for from Sewer Depreciation Fund #61-1780. This work will be paid for from Sewer Depreciation Fund #61-1780.



Resolution for Maintenance Under the Illinois Highway Code



Resolution Number	Resolution Type	Section Number
	Original	22-00000-00-GM

BE IT RESOLVED, by the Council of the City of Belvidere Illinois that there is hereby appropriated the sum of One-Million Three-hundred Thousand Dollars (\$1,300,000.00)

of Motor Fuel Tax funds for the purpose of maintaining streets and highways under the applicable provisions of Illinois Highway Code from 01/01/22 to 12/31/22

BE IT FURTHER RESOLVED, that only those operations as listed and described on the approved Estimate of Maintenance Costs, including supplemental or revised estimates approved in connection with this resolution, are eligible for maintenance with Motor Fuel Tax funds during the period as specified above.

BE IT FURTHER RESOLVED, that City of Belvidere shall submit within three months after the end of the maintenance period as stated above, to the Department of Transportation, on forms available from the Department, a certified statement showing expenditures and the balances remaining in the funds authorized for expenditure by the Department under this appropriation, and

BE IT FURTHER RESOLVED, that the Clerk is hereby directed to transmit four (4) certified originals of this resolution to the district office of the Department of Transportation.

I City Clerk in and for said City of Belvidere in the State of Illinois, and keeper of the records and files thereof, as provided by statute, do hereby certify the foregoing to be a true, perfect and complete copy of a resolution adopted by the

Council of Belvidere at a meeting held on Date

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this day of Month, Year

(SEAL)

Clerk Signature

APPROVED

Regional Engineer
Department of Transportation

Date