

RESOLUTION 19-32

A RESOLUTION OF THE CITY OF PANAMA CITY BEACH, FLORIDA, AUTHORIZING A BUDGET AMENDMENT FOR ADDITIONAL FUNDS NECESSARY TO SUPPLEMENT THE PROCUREMENT OF NEW VEHICLES, EQUIPMENT AND OFFICERS FOR THE POLICE DEPARTMENT; AND PROVIDING AN IMMEDIATELY EFFECTIVE DATE.

WHEREAS, on October 25, 2018, the City approved Budget Amendment #2, providing funds for vehicle and equipment for new officers authorized after Hurricane Michael; and

WHEREAS, that budget amendment estimated the cost for these expenditures to be \$100,800, but the actual amount needed is \$124,293, requiring a \$24,000 budget amendment to fully fund this expenditure; and

WHEREAS, a budget amendment is also necessary to fund the purchase of mobile radios for new and existing officers; and

WHEREAS, police impact fees are available to fund these expenditures.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Panama City Beach that the following budget amendment (#7) is adopted for the City of Panama City Beach, Florida, for the fiscal year beginning October 1, 2018, and ending September 30, 2019, as shown in and in accordance with the attached and incorporated Exhibit A, to reflect the expenditure of funds for the purposes stated herein.

THIS RESOLUTION shall be effective immediately upon passage.

PASSED in regular session this 13th day of December, 2018.

CITY OF PANAMA CITY BEACH

By 
MIKE THOMAS, MAYOR

ATTEST:


JO SMITH, CITY CLERK

**CITY OF PANAMA CITY BEACH
BUDGET TRANSFER FORM BF-10**

No. BA # 7

FUND	GENERAL ACCOUNT NUMBER	ACCOUNT DESCRIPTION	APPROVED BUDGET	BUDGET ADJUSTMENT	NEW BUDGET BALANCE
TO	001-2101-521.60-10	Capital Outlay < \$5,000	103,850.00	41,700.00	145,550.00
TO	001-2101-521.64-20	Machinery and Equipment	775,800.00	24,000.00	799,800.00
FROM	001-8100-999.95-00	Reserves Restricted	1,517,920.00	(65,700.00)	1,452,220.00
		Check Adjustment Totals:	2,397,570.00	0.00	2,397,570.00

BRIEF JUSTIFICATION FOR BUDGET ADJUSTMENT:

To appropriate funds in the FY 2019 budget as follows - 1) additional funds for vehicles and related emergency lighting for (3) new patrol officers authorized after Hurricane Michael; to be funded with police impact fees; budget amendment #2 included \$100,800 as estimate for these expenditures and the actual amount needed is \$124,293 thus an additional \$24,000 budget amendment is necessary and 2) radios to be funded with police impact fees as follows: (9) mobile radios at approximately \$3,900 each - (4) for officers in original budget, (3) for officers added after Hurricane Michael and (2) for new officers in prior year not previously purchased PLUS (2) portable radios for new officers in prior year not previously purchased at approximately \$3,300 each

ROUTING FOR APPROVAL

DEPARTMENT HEAD _____ DATE _____ CITY MANAGER _____ DATE _____

FINANCE DIRECTOR _____ DATE _____

Exhibit A



CITY OF PANAMA CITY BEACH AGENDA ITEM SUMMARY

1. DEPARTMENT MAKING REQUEST/NAME:

Panama City Beach Police Department

2. MEETING DATE:

December 13, 2018

3. REQUESTED MOTION/ACTION:

We respectfully request the Council's approval for the purchase of nine (9) Motorola APX6500 radios and nine (9) Motorola APX6000Li radios at a cost of \$64,570.50 from Motorola Solutions, Inc.

4. AGENDA

PRESENTATION
PUBLIC HEARING
CONSENT
REGULAR

<input type="checkbox"/>
<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

5. IS THIS ITEM BUDGETED (IF APPLICABLE)? YES NO N/A
BUDGET AMENDMENT OR N/A

DETAILED BUDGET AMENDMENT ATTACHED YES NO N/A

6. BACKGROUND: (WHY IS THE ACTION NECESSARY, WHAT GOAL WILL BE ACHIEVED)

We respectfully request the Council's approval to purchase nine (9) Motorola APX6500 radios and nine (9) Motorola APX6000Li radios from Motorola Solutions, Inc. at a cost of \$64,570.50. This is nine (9) mobile radios and nine (9) portable radios which will help ensure communications for new Officers and funded through impact fees..

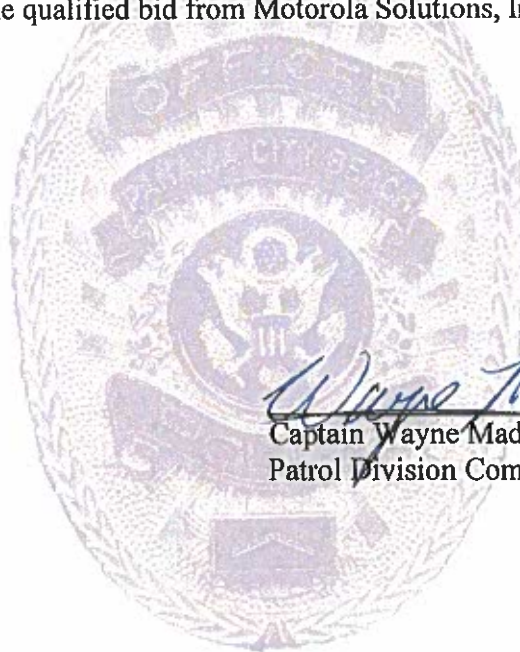
Panama City Beach Police Department

17115 Panama City Beach Parkway
Panama City Beach, Florida 32413-2128
(850) 233-5000 Fax (850)233-5013

www.beachpolice.org

Portable/Mobile Radio Purchase Request

On October 2, 2018, I opened bids for six (6) mobile radios and six (6) portable radios. The Bid Notice was bid specific (Motorola APX6500/APX6000Li 700/800 P25 Compliant). We received one (1) qualified bid from Motorola Solutions, Inc. and one (1) bid from BK Technologies which did not meet the requirements of the bid request. I am requesting we utilize the qualified bid from Motorola Solutions, Inc. for the radio purchase.




Captain Wayne Maddox
Patrol Division Commander

(850) 445-7584

10-02-18

Motorola Solutions, Inc. (850) 575-9545
P. O. Box 404059 debbiegiles@callmc.com
Atlanta, GA 30384-4059

Bid Notice for Police Mobile and Portable Radios

The City of Panama City Beach hereby solicits sealed bids for the following equipment:

- Six (6) Motorola APX6500 700/800 P25 Compliant "mobile" radios (for police use) with the following requirements:
 - Any and all P25 trunking needs, including software
 - Astro Digital CAI Operation
 - Smartzone Operation APX6500
 - APX Control Head
 - Dash Mount
 - 3 DB Low Profile Antenna
 - Palm Microphone
 - Increased Audio Power 13W
 - Programming fees
 - 3 year extended Warranty \$3,882.50 / \$23,295.00
 - Shipping Programming Included
 - Installation Responsibility of Customer

- Six (6) Motorola APX6000 Li 700/800 P25 Compliant "portable" radios (for police use) with the following requirements:
 - Any and all P25 trunking needs, including software
 - Submersible
 - Charger
 - External lapel microphone (24 inch)
 - Available port for earpiece, either on lapel or radio
 - Backlight
 - Rugged water resistant / immersion housing
 - Programming fees
 - Extra battery
 - 3 year extended warranty \$3,292 / \$19,752
 - Shipping Programming Included
 - Extra antenna

Please include a price for individual units in case the funding becomes limited.

Bids must be sealed and will be received until **12:00 p.m. (noon) Central Time, October 2, 2018** at the **City of Panama Beach Police Department, Attn: Captain Wayne Maddox, 17115 Panama City Beach Parkway, Panama City Beach, Florida, 32413**, and will be opened and read publicly immediately thereafter.

The City reserves the right to reject any and all bids and to waive any formality in bids received. All bidders shall comply with all applicable State and local laws concerning licensing, registration, and regulations of businesses in the State of Florida.

All bids shall be firm and for a period of 12 months after opening.

Advertisement Dates: September 18, 2018 begins



THE RIGHT PERFORMER AT THE RIGHT PRICE

APX™ 6000Li P25 PORTABLE RADIO

Wherever the mission takes you, you want a radio that gives you everything you need at a price you can afford, without sacrificing quality, safety or response time. Whether it's a lightweight design or a specific set of features, you expect performance that is second to none.

The APX 6000Li P25 Phase 2 capable portable radio delivers all that you want at a price that fits your budget. Pay only for the functionality you need at the level you can afford, without giving up the exceptional quality, design excellence and reliability you expect from APX.

SOPHISTICATED YET SIMPLY INTUITIVE

Everything about the APX 6000Li was designed to help responders do their jobs more effectively and safely. A unique dual microphone design locates the talker while cancelling ambient noise. The innovative T-grip shape provides a secure grip and better control and the high-contrast color display is easy to read in different lighting scenarios.

IMPROVE SAFETY WITH SMARTER TECHNOLOGY

The APX 6000Li is the affordable performer that gives you smart features like P25 Phase 2 technology for twice the voice capacity. Not only is it backwards and forwards compatible with all Motorola mission critical radio systems, it supports applications like Mission Critical Wireless and GPS location tracking to help you locate your people, manage assets and improve personnel safety.

SMALL SIZE, BIG TECHNOLOGY, LOW COST

Single band, technology-rich solution

Pay for only the features you need

Three lightweight models

Ideal for firefighters, law enforcement, military and more

P25 Phase 2 capable for twice the voice capacity

Backwards and forwards compatible with all Motorola mission critical radio systems

Mission Critical Wireless and GPS location tracking for greater safety

PRODUCT SPEC SHEET
APX™ 6000Li



FEATURES AND BENEFITS:

Available in 700/800 MHz, VHF, UHF R1, and UHF R2 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 / 25/20/12.5 kHz)*

Embedded digital signaling (ASTRO & ASTRO 25)

Available in 3 models

Integrated GPS capable

Intelligent Lighting

Radio Profiles

Unified Call List (Models 2.5 and 3.5 only)

User programmable voice announcement

Meets Applicable MIL-STD-810C, D, E, F and G

IP67 standard
 (submersible 1 meter, 30 minutes)**

Custom recess label areas

Superior Audio Features:

- 0.5 W high audio speaker
- Dual microphones
- 2-mic noise canceling technology

Utilizes Windows XP, Vista and Windows 7 Customer Programming Software (CPS)

- Supports USB communications
- Built in FLASHport™ support

Full portfolio of accessories including IMPRES batteries, chargers and audio devices

OPTIONAL FEATURES:

Mission Critical Wireless***

Single Algorithm Encryption

Programming Over Project 25

Tactical OTAR

Text Messaging

Man Down

*Per the FCC Narrowbanding rules, new products (APX6000Li UHF R1, UHF R2) submitted for FCC certification after January 1, 2011 are restricted from being granted certification at 25KHz for United States - State & Local Markets only.

** Radios meet industry standards (IPx7) for immersion.
 *** Compatible with BT 2.0 and HSP and PAN BT Profiles

TRANSMITTER TYPICAL PERFORMANCE SPECIFICATIONS

		700/800	VHF	UHF Range 1	UHF Range 2
Frequency Range/Bandsplits	700 MHz 800 MHz	763-776, 793-806 MHz 806-824, 851-870 MHz	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing		25/20/12.5 KHz	25/20/12.5 KHz	25/20/12.5 KHz	25/20/12.5 KHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Rated RF Output Power Adj ¹		1-3 Watts Max	1-6 Watts Max	1-5 Watts Max	1-5 Watts
Frequency Stability ¹ (-30°C to +60°C; +25°C Ref.)		±0.00010 %	±0.00010 %	±0.00010 %	±0.00010 %
Modulation Limiting ¹		±5 kHz / ±4 kHz / ±2.5 kHz	±5 kHz / ±2.5 kHz	±5 kHz / ±2.5 kHz	±5 kHz / ±4 kHz / ±2.5 kHz
Emissions (Conducted and Radiated) ¹		-75 dB	-75 dB	-75 dB	-75 dB
Audio Response ¹		+1, -3 dB	+1, -3 dB	+1, -3 dB	+1, -3 dB
FM Hum & Noise	700 MHz 800 MHz	-48 dB/-47 dB -46 dB/-45 dB	-47 dB -45 dB	-47 dB -45 dB	-47 dB -45 dB
Audio Distortion ¹	700 MHz 800 MHz	0.60 % 1 %	0.50 %	0.50 %	0.50 %

BATTERIES FOR APX 6000

Battery Capacity / Type	Dimensions (HxWxD)	Weight	Battery Part Number	Battery Capacity
Li-Ion IMPRES 2150 mAh IP67**	3.39" x 2.34" x 1.46"	5 oz	PMNN4403	2150 mAh
Li-Ion IMPRES 2900 mAh IP67	3.07" x 2.34" x 1.65"	6.53 oz	NNIN7038	2900 mAh
Li-Ion IMPRES 4200 mAh IP67	5.07" x 2.34" x 1.65"	11.29 oz	NNTN7034	4200 mAh
Li-Ion IMPRES 4100 mAh FM ¹ IP67	5.07" x 2.34" x 1.65"	11.29 oz	NNTN7033	4100 mAh
NiMH IMPRES 2100 mAh IP67	5.12" x 2.34" x 1.57"	11.82 oz	NNTN7037	2100 mAh
NiMH IMPRES 2000 mAh FM ¹ IP67	5.12" x 2.34" x 1.57"	11.82 oz	NNTN7036	2000 mAh
Li-Ion IMPRES 2300 mAh FM ¹	3.39" x 2.34" x 1.65"	6.53 oz	NNTN8092	2300 mAh

**Standard shipping battery

PRODUCT SPEC SHEET
APX™ 6000Li

RECEIVER - TYPICAL PERFORMANCE SPECIFICATIONS

	700/800	VHF	UHF Range 1	UHF Range 2
Frequency Range/Bandsplits	700 MHz 800 MHz	763-776 MHz 851-870 MHz	136-174 MHz	380-470 MHz 450-520 MHz
Channel Spacing		25/20/12.5 KHz	25/20/12.5 KHz	25/20/12.5 KHz
Maximum Frequency Separation		Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at Rated ¹		500mW	500mW	1000 mW
Frequency Stability ² (-30°C to +60°C; +25°C Ref.)		±0.00010 %	±0.00010 %	±0.00010 %
Analog Sensitivity ³	12 dB SINAD	0.250 µV	0.216 µV	0.234 µV
Digital Sensitivity ⁴	1% BER (800 MHz) 5% BER	0.347 µV (0.333 µV) 0.251 µV	0.277 µV 0.188 µV	0.307 µV 0.207 µV
Selectivity ⁵	25 kHz channel 12.5 kHz channel	75.7 dB 67.5 dB	79.3 dB 70 dB	78.3 dB 68.1 dB
Intermodulation		80 dB	80.5 dB	80.2 dB
Spurious Rejection		76.6 dB	93.2 dB	80.3 dB
FM Hum and Noise	25 kHz 12.5 kHz	-54 dB -48 dB	-53.8 dB -48 dB	-53.5 dB -47.4 dB
Audio Distortion ⁶		.9 %	1.20 %	0.91 %

RADIO MODELS

MODEL 1.5



MODEL 2.5



MODEL 3.5



Display	Full bitmap monochromatic LCD top display 1 line text x 8 characters 1 line of icons No menu support Multi-color backlight	Top display plus: Full bitmap color LCD display 4 lines of text x 14 characters 2 lines of icons 1 menu line x 3 menus White backlight	Top display plus: Full bitmap color LCD display 4 lines of text x 14 characters 2 lines of icons 1 menu line x 3 menus White backlight
Keypad	none	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	96	1000	1000
FLASHport Memory	64 MB	64 MB	64 MB
700/800 MHz (763-870 MHz)	H98UCD9PW5AN Q360EF	H98UCF9PW6AN Q360EF	H98UCH9PW7AN Q360EF
VHF (136-174 MHz)	H98KGN9PW5AN Q360EG	H98KGF9PW6AN Q360EG	H98KGH9PW7AN Q360EG
UHF Range 1 (380-470 MHz)	H98QDD9PW5AN Q360EH	H98QDF9PW6AN Q360EH	H98QDH9PW7AN Q360EH
UHF Range 2 (450-520 MHz)	H98SDD9PW5AN Q360FC	H98SDF9PW6AN Q360FC	H98SDH9PW7AN Q360FC
Buttons & Switches	Large PTT button ■ Angled On/Off volume control ■ Orange emergency button ■ 16 position top-mounted rotary switch ■ 2-position concentric switch ■ Multi-color backlight ■ 3-position toggle switch ■ 3 programmable side buttons		
Transmitter Certification			
700/800 (764-869 MHz)		AZ489FT5863	
VHF (136-174 MHz)		AZ489FT3829	
UHF Range 1 (380-470 MHz)		AZ489FT4897	
UHF Range 2 (450-520 MHz)		AZ489FT4903	
FCC Emissions Designators			
FCC Emissions Designators	11K0F3E, 16K0F3E, 8K10F1D, 8K10F1E, 8K10F1W, 20K0F1E *		
Power Supply			
Power Supply	One rechargeable 2150 mAh Li-Ion Battery Standard (PMNN4403), with alternate battery options available.		

PRODUCT SPEC SHEET
APX™ 6000Li

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/A1/C3	503.3	I/A1/C3	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
Immersion	512.1	I	512.2	I	512.3	I	512.4	I	512.5	I
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	5.47	139
Width Push-To-Talk button	2.39	60.7
Depth Push-To-Talk button	1.40	35.6
Width Top	2.98	75.7
Depth Top	1.58	40.1
Depth Bottom of Battery	1.24	31.5
Weight of the radios without battery	10.9 oz	309 g

ENCRYPTION

Supported Encryption Algorithms	AUP, AES, DES, DES-XL, DES-OFB, DVP-XL
Encryption Algorithm Capacity	1
Encryption Keys per Radio	Module capable of storing 1024 keys. Programmable for 64 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

GPS SPECIFICATIONS

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

RUGGED OPTION SPECIFICATIONS

Leakage (immersion)	MIL-STD-810 C,D,E,F and G Method 512.X Procedure I
Housing Availability	Black

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature ^a	-30°C / +60°C
Storage Temperature ^a	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 801-2 KV
Water and Dust Intrusion	IP67, MIL-STD
Immersion	MIL-STD 512 X/I

- ^a Measured in the analog mode per TIA / EIA 603 under nominal conditions
- ^b When used with an FM approved intrinsically safe radio
- ^c Measured conductively in analog mode per TIA / EIA 603 under nominal conditions.
- ^d Measured conductively in digital mode per TIA / EIA IS 102.CAAA under nominal conditions.
- ^e Accuracy specs are for long-term tracking (95th percentile values >5 satellites visible at a nominal -130 dBm signal strength).
- ^f Temperatures listed are for radio specifications. Battery storage is recommended at 25°C, ±5°C to ensure best performance.

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

For more information on the right performer at the right price, visit motorolasolutions.com/apx

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

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RS-4 2048D



SPECIFICATION SHEET



APX™ 6500

PROJECT 25 MOBILE RADIO

We've put exceptional flexibility into an advanced mission critical mobile radio that's easy to operate and intuitive to use. The APX 6500 P25 mobile allows users to choose from 4 control heads, mid and high power models and multiple installation configurations in an easy to install design. Innovative safety features such as GPS location tracking, intelligent lighting and one-touch controls help to keep first responders safer than ever before.

Focus on the task not the technology, with the hardworking mission critical mobile that turns mission critical into mission complete.



FLEXIBLE PLATFORM

- Interchangeable control heads that best support your operational needs - 02, 03, 05, 07
- Two transceiver options - high-power and mid-power
- Dual control head support offered on the 02, 05 and 07 control heads

EASY TO INSTALL AND EFFORTLESS TO USE

- Mid-power model fits into any existing XTL footprint, so you can reuse mounting holes and cables
- High-power model trunion design lets you remove the radio without removing the cables
- 12 character RF ID label helps you track information without uninstalling your radio

CUTTING-EDGE TECHNOLOGY AND ADVANCED FEATURES

- Project 25 Phase 2 technology provides twice the voice capacity
- Integrated GPS lets you locate and track an individual or vehicle
- Advanced features like intelligent lighting, radio profiles and text messaging improve communication and coordination



APX™ 6500 SPECIFICATIONS

FEATURES AND BENEFITS:

Available in 700/800 MHz, VHF, UHF R1 and UHF R2 bands
Channels: 870*

Trunking Standards supported:

- Clear or digital encrypted Trunked Operation
- Capable of SmartZone®, SmartZone Omnilink, SmartNet®

Analog MDC-1200 and Digital APCO P25 Conventional System Configurations

Narrow and wide bandwidth digital receiver (6.25kHz/12.5kHz/20kHz/25kHz)

Embedded digital signaling (ASTRO and ASTRO 25)

Integrated GPS capable

Integrated Encryption Hardware

Intelligent lighting

Radio profiles

Unified Call List

Ships standard IP54

Utilizes Windows XP, Vista and Windows 7 Customer Programming Software (CPS)

- Supports USB Communications
- Built in FLASHport™ support

Re-use of most XTL™ accessories, plus new IMPRES accessories

OPTIONAL FEATURES:

Enhanced Encryption Software Options

Programming over Project 25 (POP25)

Text Messaging

Over the Air Rekeying (OTAR)

12 character RF ID asset tracking

Tactical OTAR

*Enhancement package available

TRANSMITTER - TYPICAL PERFORMANCE SPECIFICATIONS

	700 MHz		800 MHz		VHF		UHF Range 1		UHF Range 2	
Frequency Range/Bandsplits	764-776 MHz 794-806 MHz		806-824 MHz 851-870 MHz		136-174 MHz		380-470 MHz		450-520 MHz	
Channel Spacing	25/20/12.5 kHz		25/20/12.5 kHz		25/20/12.5 kHz		25/20/12.5 kHz		25/20/12.5 kHz	
Maximum Frequency Separation	Full Bandsplit		Full Bandsplit		Full Bandsplit		Full Bandsplit		Full Bandsplit	
Rated RF Output Power Adj ¹	10-30 Watts		10-35 Watts		10-50 Watts or 25-110 Watts		10-40 Watts or 25-110 Watts		10-45 Watts (450-485 MHz) 10-40 Watts (485-512 MHz) 10-25 Watts (512-520 MHz)	
Frequency Stability ² [-30°C to +60°C, +25°C Ref.]	±0.00015 %		±0.00015 %		±0.0002 %		±0.0002 %		±0.0002 %	
Modulation Limiting ³	±5 kHz / ±2.5 kHz		±5 kHz / ±4 kHz (NPSAPC) / ±2.5 kHz		±5 kHz / ±2.5 kHz		±5 kHz / ±2.5 kHz		±5 kHz / ±2.5 kHz	
Modulation Fidelity (CAF ⁴) 12.5kHz Digital Channel	±2.8 kHz		±2.8 kHz		±2.8 kHz		±2.8 kHz		±2.8 kHz	
Emissions ⁵	Conducted ⁶ -75/-85 dBc	Radiated ⁶ -20/-40 dBm	Conducted ⁶ -75 dBc	Radiated ⁶ -20 dBm	Conducted ⁶ -85 dBc	Radiated ⁶ -20 dBm	Conducted ⁶ -85 dBc	Radiated ⁶ -20 dBm	Conducted ⁶ -85 dBc	Radiated ⁶ -20 dBm
Audio Response ⁷	+1, -3 dB (EIA)		+1, -3 dB (EIA)		+1, -3 dB (EIA)		+1, -3 dB (EIA)		+1, -3 dB (EIA)	
FM Hum & Noise	25 kHz 12.5 kHz	-50 dB -48 dB	-50 dB -48 dB	-50 dB -48 dB	-53 dB -52 dB	-53 dB -50 dB	-53 dB -50 dB	-53 dB -50 dB	-53 dB -50 dB	-53 dB -50 dB
Audio Distortion ⁸	2 %		2 %		2 %		2 %		2 %	

DIMENSIONS

	Inches	Millimeters	
Mid Power Radio Transceiver	2 x 7 x 8.6	50.8 x 177.8 x 218.4	
O5 Control Head	2 x 7 x 2.5	50.8 x 180.3 x 63.5	
O2 Control Head	2.7 x 8 x 2.1	68.4 x 206 x 52.83	
O7 Control Head	2 x 7 x 1.5	50.8 x 178 x 40	
Mid Power Radio Transceiver and O5 Control Head - Dash Mount	2 x 7 x 9.6	50.8 x 180.3 x 243.8	
Mid Power Radio Transceiver and O7 Control Head - Dash Mount	2.7 x 8 x 10.5	68.4 x 206 x 268	
Mid Power Radio Transceiver and O7 Control Head - Dash Mount	2 x 7 x 10.3	50.8 x 178 x 262	
Mid Power Radio Transceiver and Remote Mount	2.0 x 7 x 9.6	50.8 x 180.3 x 243.8	
High Power Radio Transceiver	2.9 x 11.5 x 8.8	74 x 293 x 223	
High Power Radio Transceiver with Handle	3.4 x 11.5 x 8.8	87 x 293 x 223	
Mid Power Radio Transceiver and O5 Control Head Weight	6.6 lbs	3.0 kg	
Mid Power Radio Transceiver and O2 Control Head Weight	7.12 lbs	3.23 kg	
Mid Power Radio Transceiver and O7 Control Head Weight	6.74 lbs	3.06 kg	
High Power Radio Transceiver Weight	With Trunnion Without Trunnion	14.2 lbs 12 lbs	6.4 kg 5.4 kg

APX 6500 CONTROL HEAD PORTFOLIO



02 RUGGED CONTROL HEAD

- Large color display with intelligent lighting
- 3 lines of text 14 characters max / 1 line of icons / 1 line of menus
- Built in 7.5 watt speaker
- Multiple control head configuration (up to 2)
- Multifunction volume/channel knob
- Night/day mode button

03 HAND HELD CONTROL HEAD

- Large color display with intelligent lighting
- 2 lines of text 14 characters max / 1 line of icons / 1 line of menus
- Integrated full size DTMF keypad
- Hand-held control head with intuitive user interface
- Two quick-access side buttons
- Display contrast selector

05 STANDARD CONTROL HEAD

- Tri-color display with intelligent lighting
- 2 lines of text 14 characters max / 1 line of icons / 1 line of menus
- Available with Keypad Microphone
- Multiple control head configuration (up to 2)
- Display contrast selector

07 ENHANCED CONTROL HEAD

- Large color display with intelligent lighting
- 3 lines of text 14 characters max / 1 line of icons / 1 line of menus
- Available with Lighting & Siren Controls or DTMF Keypad
- Multiple control head configuration (up to 2)
- Multifunction volume/channel knob
- Night/day mode button

RECEIVER – TYPICAL PERFORMANCE SPECIFICATIONS

	700 MHz	800 MHz	VHF	UHF Range 1	UHF Range 2
Frequency Range/Bandsplits	764-776 MHz	851-870 MHz	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz	25/20/12.5 kHz
Maximum Frequency Separation	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit	Full Bandsplit
Audio Output Power at 3% distortion ¹	7.5 W or 15 W ++	7.5 W or 15 W ++	7.5 W or 15 W ++	7.5 W or 15 W ++	7.5 W or 15 W ++
Frequency Stability ² (-30°C to +60°C, +25°C Ref.)	±/-0.8 PPM	±/-0.8 PPM	±/-0.8 PPM	±/-0.8 PPM	±/-0.8 PPM
Analog Sensitivity ³ 12 dB SINAD	-121 dBm	-121 dBm	Pre-Amp -123 dBm Standard -119 dBm	Pre-Amp -123 dBm Standard -119 dBm	Pre-Amp -123 dBm Standard -119 dBm
Digital Sensitivity 5% BER	-121.5 dBm	-121.5 dBm	-123 dBm	-123 dBm	-123 dBm
Intermodulation 25 kHz	82 dB	82 dB	84 dB	82 dB	82 dB
12.5 kHz	82 dB	82 dB	85 dB	83 dB	83 dB
Spurious Rejection	91 dB	91 dB	95 dB	93 dB	93 dB
Audio Distortion at rated ⁴	1.20%	1.20%	1.20%	1.20%	1.20%
FM Hum & Noise 25 kHz	59 dB	59 dB	59 dB	55 dB	57 dB
12.5 kHz	50 dB	50 dB	50 dB	50 dB	50 dB
Selectivity ⁵ 25 kHz	85 dB	85 dB	85 dB	85 dB	85 dB
12.5 kHz	75 dB	75 dB	75 dB	75 dB	75 dB
30 kHz	—	—	90 dB	—	—

SIGNALING (ASTRO MODE)

Signaling Rate	9.6 kbps
Digital ID Capacity	10,000,000 Conventional / 48,000 Trunking
Digital Network Access Codes	4,096 network site addresses
ASTRO® Digital User Group Addresses	4,096 network site addresses
Project 25 – CAI Digital User Group Addresses	65,000 Conventional / 4,094 Trunking
Error Correction Techniques	Golay, BCH, Reed-Solomon codes
Data Access Control	Slotted CSMA: Utilizes infrastructure-sourced data status bits embedded in both voice and data transmissions.

GPS SPECIFICATIONS

Channels	12
Tracking Sensitivity	-153 dBm
Accuracy**	<10 meters (95%)
Cold Start	<60 seconds (95%)
Hot Start	<10 seconds (95%)
Mode of Operation	Autonomous (Non-Assisted) GPS

POWER AND BATTERY DRAIN

Model Type	136-174 MHz, 380-470 MHz, 450-520 MHz, 764-870 MHz
Minimum RF Power Output	10-35 Watts (764-870 MHz), 10-50 Watts or 25-110 Watts (136-174 MHz), 10-40W or 25-110 Watts (380-470 MHz), 10-45Watts (450-485 MHz), 10-40Watts (485-512 MHz), 10-25Watts (512-520 MHz)
Operation	13.8V DC ±20% Negative Ground
Standby at 13.8V	0.85A (764-870 MHz), 0.85A (136-174 MHz), 0.85A (380-470 MHz), 0.85A (450-520 MHz)
Receive Current at Rated Audio at 13.8V	3.2A (764-870 MHz), 3.2A (136-174 MHz), 3.2A (380-470 MHz), 3.2A (450-520 MHz)
Transmit Current (A) at Rated Power	136-174 MHz (10-50 Watt) 13A (50W) 8A (15W) 380-470 MHz (10-40 Watt) 11A (40W) 8A (15W) 380-470 MHz (10-40 Watt) 11A (45W) 8A (15W) 764-870 MHz (10-35 Watt) 12A (50W) 8A (15W) 136-174 MHz (25-110 Watt) 20A (110W) 380-470 MHz (25-110 Watt) 24A (110W)

MOBILE 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/Hot	501.5	I-A1, II
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
Temperature Shock	503.1	I Proc	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	I Proc	507.5	II-Aggravated
Salt Fog	509.1	I Proc	509.2	I Proc	509.3	I Proc	509.4	I Proc	509.5	I Proc
Blowing Dust	510.1	I	510.2	I, II	510.3	I, II	510.4	I, II	510.5	I, II
Vibration	514.1w	VIII/F, Curve-W	514.3	I/10, II/3	514.4	I/10, II/3	514.5	I/24	514.6	I-cat.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

ENCRYPTION

Supported Encryption Algorithms	ADP, AES, DES, DES-XL, DES-OFB, DVP-XL
Encryption Algorithm Capacity	8
Encryption Keys per Radio	Module capable of storing 1024 keys. Programmable for 64 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	-30°C / +60°C
Storage Temperature	-40°C / +85°C
Humidity	Per MIL-STD
ESD	IEC 8001-2 KV
Water and Dust Intrusion	IP54, MIL-STD

FCC TYPE ACCEPTANCE ID

BAND	OUTPUT POWER	TRANSMITTER NUMBER
764-870 MHz	10-35 Watts	AZ492FT5858
136-174 MHz	25-110 Watts	AZ492FT3871
136-174 MHz	10-50 Watts	AZ492FT3824
380-470 MHz	10-40 Watts	AZ492FT4894
380-470 MHz	25-110 Watts	AZ492FT4897
450-520 MHz	10-45 Watts	AZ492FT4896

* Measured in the analog mode per TIA/EIA 603 under nominal conditions

** Accuracy specs are for long-term tracking

(95th percentile values >5 satellites visible at a nominal -130 dBm signal strength)

+ Specs includes performance for the non-GNSS/GNSS bands

++ Output power in to B and 3.2 Ohm external speakers respectively

Specifications subject to change without notice. All specifications shown are typical. Radio meets applicable regulatory requirements.

Motorola Solutions, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. motorolasolutions.com

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RG-1-2047E





Panama City Beach, FL Police Department

**Bid for Police Mobile and Portable Radios
October 2, 2018**

BK Technologies



9/21/2018

Technical Response

BK Technologies is a Florida owned/operated radio manufacturer specializing in P25 radios purpose built for Public Safety.

We are bidding an alternative to the specific brand/model listed – yet meeting/exceeding every technical specification.

We have a strong track record of operating seamlessly and flawlessly on an Astro Digital Radio System.

Six (6) KNG-M800 P25 Compliant “mobile” radios (for police use) with the following requirements:

- Any and all P25 trunking needs (Phase 1 and Phase 2 included), including software
- Astro Digital CAI Operation
- Smartzone Operation
- Control Head
- Dash Mount (all cables and mounting hardware included)
- 3 DB Low Profile Antenna
- Palm Microphone
- Increased Audio Power **15W**
- Programming included
- Lifetime software/firmware updates included
- 3 year extended Warranty (total 5 year warranty)
- Shipping

• Six (6) KNG-P800 P25 Compliant “portable” radios (for police use) with the following requirements:

- Any and all P25 trunking needs (Phase 1 and Phase 2 included), including software
- Submersible (IP67/IP68 and MIL-STD 810 C/D/E/F/G)
- Charger (Intelligent Charger)
- External lapel microphone (24 inch)
- Available port for earpiece, either on lapel or radio
- Backlight
- Rugged water resistant / immersion housing (IP67/IP68 and MIL-STD 810 C/D/E/F/G)
- Programming included
- Extra battery (Intelligent Batteries)
- Lifetime software/firmware updates included
- 3 year extended warranty (Total 5 years)
- Shipping
- Extra antenna

Pricing

Mobile Radio (per specs on Page 2) \$2,442.50 each

Portable Radio – (per specs on Page 2) \$1,701.00 each

Total for 6 Mobile and 6 Portable radios \$24,861.00



PREPARED BY:

Prepared By Kent Bickel 615-306-0534
Title Regional Sales Manager
Email kbickel@bktechnologies.com

PREPARED FOR:

Contact Name FL Panama City Beach Police

Quote Number 00001488
Created Date 9/19/2018
Type of Contract Name No Contract

Expiration Date 12/28/2018
Shipping Payment FEDEX - BK paid

Bill To Name FL Panama City Beach Police
Bill To 17115 Panama City Beach Pkwy
Panama City Beach, FL 32413

Ship To Name FL Panama City Beach Police
Ship To 17115 Panama City Beach Pkwy
Panama City Beach, FL 32413

Product	Product Description	Quantity	List Price	Sales Price (Unit)	Total Price
KNG-M800	763-870 MHz, Digital/Analog, P25, 5000 channels, 30/35 Watts Dash Mount	6.00	\$3,658.34	\$1,908.00	\$11,448.00
MWV800	Mobile Antenna, 763-870 MHZ	6.00	\$105.00	\$52.50	\$315.00
NMO-N TYPE	Fixed Antenna Mount NMO w/ Type N Connector	6.00	\$50.00	\$25.00	\$150.00
KAA0276	Standard Handheld Microphone KNG-M	6.00	\$266.00	\$133.00	\$798.00
KZA0569	Factory Install P25 9600 Baud Trunking	6.00	\$660.00	\$100.00	\$600.00
KZA0594	Factory Install, TDMA "Must have KZA0569"	6.00	\$250.00	\$25.00	\$150.00
KNG-P800	763-870 MHz, 5000 channels, 3 Watt P25 Digital/Analog Portable	6.00	\$2,713.00	\$999.00	\$5,994.00
KAA0825	800, SMA (764-870 MHz) Antenna	12.00	\$33.00	\$16.50	\$198.00
KAA0103	Battery Pack, Li-Ion, 2300mAh, Intelligent	12.00	\$165.00	\$82.50	\$990.00
KAA0303-1	Charger, Desk Top, 1 Bay, KNG, Intelligent, Conditioning	6.00	\$200.00	\$100.00	\$600.00
KAA0204-E35	Microphone, Speaker, Emergency Button, W3.5mm jack, KNG-P	6.00	\$160.00	\$80.00	\$480.00
KZA0579	Factory Install P25 9600 Baud Trunking	6.00	\$660.00	\$100.00	\$600.00

BK Technologies KNG P25 Portable Radio



Public Safety Communications

The KNG Series radio offers exceptional performance in a lightweight form, incorporating industry leading RF and electrical specifications in a rugged, submersible housing, the KNG Series platform provides the performance needed for the most demanding applications making this the perfect radio for all aspects of government, public safety and first responder missions.



- ✓ P25 Trunking Option
- ✓ TDMA Phase II Compatible
- ✓ IP67/IP68 Water and Dust Protection
- ✓ USB PC Programmable
- ✓ NIST-Certified AES, FIPS 104-2, DES-OFB/CFB/XL
- ✓ MIL-STD 810 C/D/E/F/G
- ✓ Cloning to KNG & Legacy Series
- ✓ Advanced System Key
- ✓ Radio Authentication (LLA)



Some Key Benefits

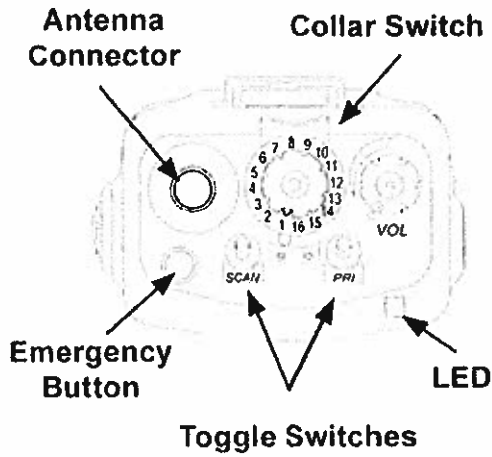
bktechnologies.com

- ▶ **Exceptional Battery Life**
Up to 12 hours with standard capacity and 22 hours with high capacity battery.
- ▶ **Enhanced Voice Quality**
The KNG Series radio uses the Third Generation Enhanced IMBE P25 dual rate Vocoder (AMBE+2 V1.80) for robust performance in noisy environments with advanced noise.
- ▶ **Enhanced Noise Cancellation**
Enhanced software noise canceling technology to improve communications in loud environments
- ▶ **5 Line Bitmap Display**
Status icons, three customizable display lines of 14 characters and soft key legends.
- ▶ **Environmental Reliability**
Designed and tested to MIL-STD-810C/D/E/F/G and IP-67/IP68 rated.
- ▶ **DHS P25 CAP Approved**
DHS P25 Compliance Assessment Program Tested and Approved Public Safety Grade (TIA Class A).
- ▶ **Robust Receiver**
Improved range and less susceptibility to interference.
- ▶ **Simulcast Operation**
C4FM and CQPSK modes for robust performance in simulcast (including LSM) systems.
- ▶ **Conventional Signaling**
Analog MDC-1200 and digital APCO P25 for conventional operation.
- ▶
- ▶ **Scan Modes**
Dual priority scan, trunked priority scan, and dual mode scan
- ▶ **NIST FIPS-140-2 Certification**
The KNG Series radios employ a NIST Certified Cryptographic module.
- ▶ **Multi-key/Multi-Algorithm**
Multi-Key/Multi-Algorithm Encryption
- ▶ **Over-the-Air Rekey (OTAR)**
- ▶ **Encryption Key Fill**
TIA-102-AACD compliant and interoperable with commercially available keyfill devices.
- ▶ **P25 9600 Baud Trunking**
The KNG Series radio operates on 9600 baud P25 Compliant Trunking Systems and has been P25 Compliance Assessment Program (P25CAP) tested and proven interoperable.
- ▶ **OTAP**
KNG Series radios support Over-the-Air Programming (OTAP) for operational efficiency.
- ▶ **TDMA Phase 2**
KNG Series VHF, UHF, 700/800 platforms are P25 Phase 2 (TDMA) ready supporting double the voice capacity of Phase 1 trunking systems
- ▶ **Radio Authentication**
P25 Radio Authentication per TIA-102-AACE-A is supported
- ▶ **Room to Grow**
Currently uses less than 20% of available memory and processor cycles.
- ▶

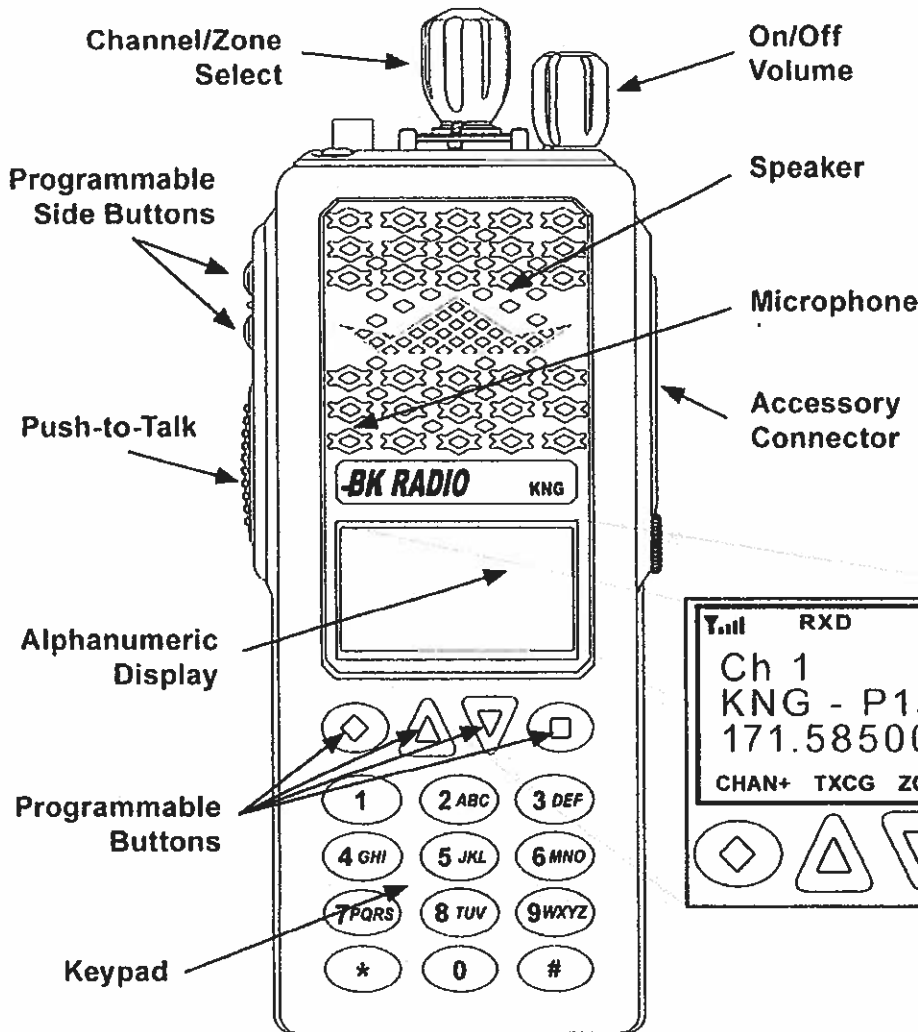
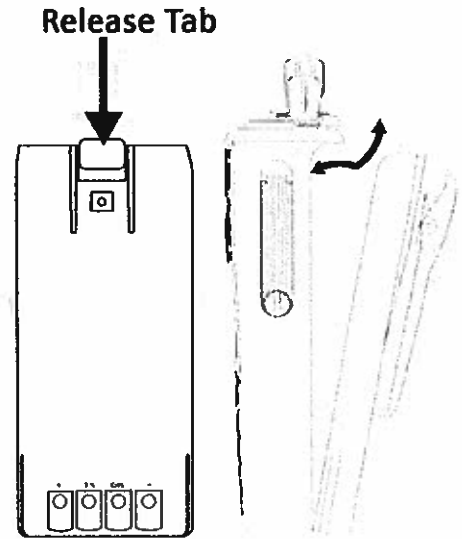
Portable Radio Options

The KNG platform meets today's demanding mission critical voice requirements is future ready and able to expand with changing standards and mission requirements.

- ▶ **KZA0577** AES, FIPS-140-2 Approved Hardware, DES OFB / DES-CFB / DES-XL Encryption
- ▶ **KZA0578** P25 Over the Air-Rekey (OTAR)
- ▶ **KZA0579** P25 9600 Baud Trunking
- ▶ **KZA0581** Multi-Cast Vote Scan Plus
- ▶ **KZA0582** Over the Air Programming (OTAP)
- ▶ **KZA0593** P25 Phase II – 2 Slot TDMA Operation (Requires KZA0578)
- ▶ **KZA0595** P25 Radio Authentication LAA (Requires KZA0577)

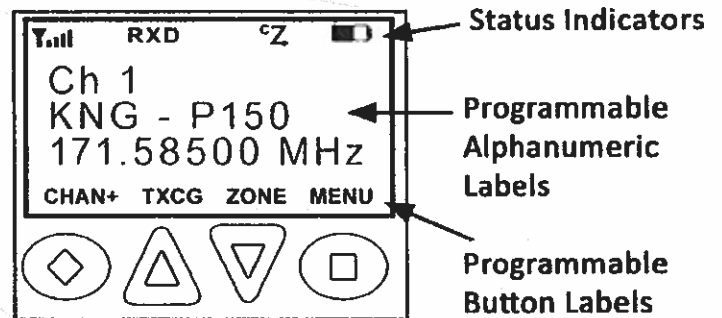


LED Indicator
 Receive (green)
 Busy Channel (flash green)
 Transmit (red)
 Flash Mode (blue)
 Low Battery (flash red)



The KNG display can be programmed for a variety of options and functionality. Check with your BK Radio dealer or communications officer for information on the programmed functions of your radio.

NOTE: The KNG display can be programmed to display different information when a trunking or conventional channel is selected.



BK Technologies KNG P25 Mobile Radio



Public Safety Communications

The KNG Series radio offers exceptional performance in a lightweight form. With industry leading RF and electrical specifications in a rugged, submersible housing, the KNG Series platform provides the performance needed for the most demanding applications making this the perfect radio for all aspects of government, public safety and first responder missions.

- ✓ P25 Trunking Option
- ✓ TDMA Phase II Compatible
- ✓ IP54 Water and Dust Protection
- ✓ USB PC Programmable
- ✓ NIST-Certified AES, FIPS 104-2, Level 2, & DES/OFB/CFB/XL
- ✓ MIL-STD 810 C/D/E/F/G
- ✓ Cloning to KNG & Legacy Series





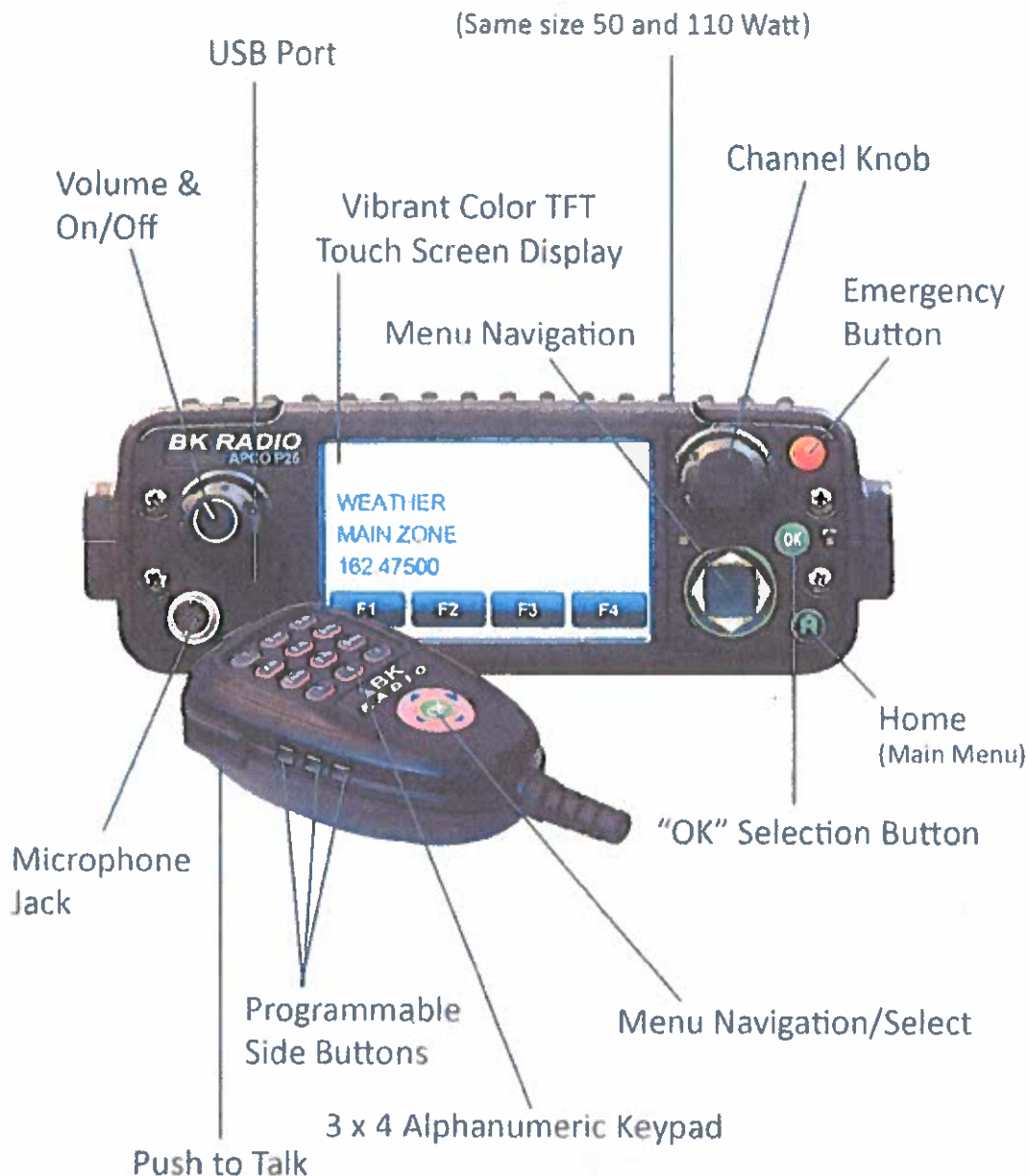
Some Key Benefits

- ▶ **Innovative Touch Screen Display**
Touch screen display provides unparalleled level of end-user customizing, ease of use, and expansion as new technologies are integrated with Project 25 Standards
- ▶ **Enhanced Voice Quality**
The KNG Series radio uses the Third Generation Enhanced IMBE Project 25 dual rate Vocoder (AMBE+2 V1.80) for robust performance in noisy environments. Software based noise cancellation preserves situational awareness lost with dual microphone systems.
- ▶ **5 Line Color Bitmap Display**
Status Icons, three customizable display lines of 14 characters and soft key legends.
- ▶ **Environmental Reliability**
Designed and tested to MIL-STD-810 and IP-54 rated.
- ▶ **DHS P25 CAP Approved**
DHS P25 Compliance Assessment Program Tested and Approved Public Safety Grade (TIA Class A).
- ▶ **Robust Receiver**
Improved range and less susceptibility to interference.
- ▶ **Simulcast Operation**
C4FM and CQPSK modes for robust performance in simulcast (including LSM) systems.
- ▶ **Conventional Signaling**
Analog MDC-1200 and digital APCO Project 25 for conventional operation.
- ▶ **IP54**
Water and dust protection
- ▶ **Scan Modes**
Dual priority scan, trunked priority scan, and dual mode scan
- ▶ **NIST FIPS-140-2 Certification**
The KNG Series radios employ a NIST Certified Cryptographic module.
- ▶ **Multi-key/Multi-Algorithm**
Multi-Key/Multi-Algorithm Encryption and Over-the-Air Rekey
- ▶ **Encryption Key Fill**
TIA-102-AACD compliant and interoperable with commercially available keyfill devices.
- ▶ **Project 25 9600 Baud Trunking**
The KNG Series radio operates on 9600 baud P25 Compliant Trunking Systems and has been Project 25 Compliance Assessment Program (P25CAP) tested and proven interoperable.
- ▶ **OTAP**
KNG Series radios support Over-the-Air Programming (OTAP) for operational efficiency.
- ▶ **TDMA Phase 2**
KNG Series 700/800 MHz platforms are Project 25 Phase 2 (TDMA) ready supporting double the voice capacity of Phase 1 trunking systems.
- ▶ **Radio Authentication**
Project 25 Radio Authentication per TIA-102-AACE-A is supported.
- ▶ **GPS/Location Services**
Project 25 Location Services per TIA-102-BAJB are supported.
- ▶ **Room to Grow**
Currently uses less than 20% of available memory and processor cycles.

Mobile Radio Options

The KNG platform meets today's demanding mission critical voice requirements is future ready and able to expand with changing standards and mission requirements.

- | | | | |
|----------------------|------------------------------------|----------------------|--------------------------------------|
| ▶ KZA0154 | Option, High Power, 110W | ▶ KAA/KZA0589 | GPS Option for KNG Mobiles |
| ▶ KAA0660 | Remote Control Head | ▶ KAA/KZA0592 | Over the Air Reprogramming |
| ▶ KAA0670 | Handheld Control Head | ▶ KAA/KZA0594 | P25 Phase II – 2 Slot TDMA Operation |
| ▶ KAA/KZA0569 | P25 9600 Baud Trunking | ▶ KAA/KZA0596 | P25 Radio Authentication |
| ▶ KZA0576 | DES-OFB/DES-CFB/DES-XL | ▶ KAA0261 | External Speaker 20W, 4 Ohm |
| | AES Encryption FIPS-140-2, Level 2 | ▶ KAA0276 | Standard Handheld Microphone KNG-M |
| ▶ KAA/KZA0580 | P25 Over the Air Rekeying (OTAR) | ▶ KAA0290 | Handheld Programming Microphone |
| ▶ KAA/KZA0583 | Multi-Cast Vote Scan Plus | | |



Standard Control Head

- ▶ Full Color Touch screen
- ▶ 5 Line display: Status Icons, three customized display lines of 14 characters, 4 programmable touch keys and menu touch key
- ▶ 3 x 4 Keypad microphone with navigation keys and 3 programmable function keys Dash and Remote Mount Configurations
- ▶ Multiple Control Heads supported: Single, dual and triple allow full control of the transceiver from multiple positions
- ▶ Dual 15 watt external speak outputs per control head

CITY OF PANAMA CITY BEACH
BUDGET TRANSFER FORM BF-10

No. BA # 2

FUND GENERAL ACCOUNT NUMBER	ACCOUNT DESCRIPTION	APPROVED BUDGET	BUDGET ADJUSTMENT	NEW BUDGET BALANCE
TO 001-2101-521.12-10	Salaries Regular	3,915,000.00	127,550.00	4,042,550.00
TO 001-2101-521.21-10	FICA	336,244.00	9,800.00	346,044.00
TO 001-2101-521.22-20	Retirement Sworn	606,970.00	23,600.00	630,570.00
TO 001-2101-521.23-10	Health Insurance	490,000.00	410.00	490,410.00
TO 001-2101-521.23-20	Dental Insurance	24,000.00	25.00	24,025.00
TO 001-2101-521.23-30	Life Insurance	4,100.00	15.00	4,115.00
TO 001-2101-521.52-10	Operating Supplies	130,000.00	10,200.00	140,200.00
TO 001-2101-521.60-10	Capital Outlay < \$5,000	140,000.00	23,850.00	163,850.00
TO 001-2101-521.64-20	Machinery and Equipment	525,000.00	100,800.00	625,800.00
TO 001-0000-389.90-10	Cash Carryforward Unrestricted	(20,953,995.00)	(171,600.00)	(21,125,595.00)
FROM 001-8100-999.95-00	Reserves Restricted	3,989,425.00	(124,650.00)	3,864,775.00
	Check Adjustment Totals:	(10,793,256.00)	0.00	(10,793,256.00)

BRIEF JUSTIFICATION FOR BUDGET ADJUSTMENT:

To appropriate funds in the FY 2019 budget for three (3) full-time patrol officers

Exhibit A

ROUTING FOR APPROVAL

DEPARTMENT HEAD _____ DATE _____ CITY MANAGER _____ DATE _____

FINANCE DIRECTOR _____ DATE _____



CITY OF PANAMA CITY BEACH AGENDA ITEM SUMMARY

1. DEPARTMENT MAKING REQUEST/NAME:

Panama City Beach Police Department

2. MEETING DATE:

December 13, 2018

3. REQUESTED MOTION/ACTION:

We respectfully request the Council's approval for the purchase of three (3) Ford Explorer Police Interceptors at a cost of \$32,835.00 each from Bozard Ford.

4. AGENDA

PRESENTATION
PUBLIC HEARING
CONSENT
REGULAR

5. IS THIS ITEM BUDGETED (IF APPLICABLE)? Yes No N/A
BUDGET AMENDMENT OR N/A

DETAILED BUDGET AMENDMENT ATTACHED Yes No N/A

6. BACKGROUND: (WHY IS THE ACTION NECESSARY, WHAT GOAL WILL BE ACHIEVED)

We respectfully request the Council's approval to purchase three (3) Ford Explorer Police Interceptors from Bozard Ford at a cost of \$32,835.00 each. This purchase will allow us to provide vehicles to three new officers funded with impact fees.

Note the original awarded bid was to Beck Auto Sales, however, they were only able to provide the original vehicles requested. Bozard came in as the next lowest bid with an increase of \$935.00 each, for a total increase of \$2,805.00 total purchase.

BOZARD

10/25/2018

CAPTAIN WAYNE MADDOX
PANAMA CITY BEACH



Exterior Vehicle	Emergency Lights			Passenger Side	Driver Side
WHITE	Color		Lights		
Interior Vehicle Color	Color		Lens		
Description					Price
2020 FORD	2020 FORD SUV POLICE INTERDEPTORS (K8A)				\$34,826.00
99B	3.3L V6 DIRECT INJECTION ENG				-\$2,600.00
44B	10 SPEED AUTO				INC
51R	DRIVER SIDE SPOTLIGHT				INC
55R	KEYLESS ENTRY				INC
17A	AUXILIARY AIR COND				\$609.00
					\$32,835.00

All Vehicles will be ordered **WHITE** unless agency choose a different color

Approved

Please return quote along with purchase order

Joe Windrow

Fleet Sales

850-776-5294 Cell

540 Outlet Mall Blvd* St. Augustine, FL 32084* Telephone (904)824-1641* www.BOZARDFORD.com



Bozard Ford
 540 Outlet Mall Blvd., Saint Augustine, Florida,
 320840515
 Office: 904-824-1641

2020 Police Interceptor Utility, Sport Utility
AWD Base(K8A)
 Price Level: 15

Selected Options

Code	Description
Base Vehicle	
K8A	Base Vehicle Price (K8A)
Packages	
500A	Order Code 500A <i>Includes:</i> - 3.73 Axle Ratio - GVWR: TBD - Tires: 255/60R18 AS BSW - Wheels: 18" x 8" 5-Spoke Painted Black Steel <i>Includes center caps and full size spare.</i> - Unique HD Cloth Front Bucket Seats w/Vinyl Rear <i>Includes reduced bolsters, driver 6-way power track (fore/aft, up/down, tilt with manual recline, 2-way manual lumbar, passenger 2-way manual track (fore/aft, with manual recline) and built-in steel intrusion plates in both front seatbacks.</i> - Radio: AM/FM/MP3 Capable <i>Includes clock, 4 speakers and 4.2" color LCD screen center stack Smart Display.</i>
Powertrain	
99B	Engine: 3.3L V6 Direct-Injection (FFV) <i>(136-MPH Top Speed) Note: Deletes Regenerative Braking and Lithium-Ion Battery Pack; adds 250-Amp Alternator, replaces H7 AGM battery (800 CCA/80-amp) with H7 SLI battery (730 CCA/80-amp) and replaces 19-gallon tank with 21.4-gallon.</i>
44U	Transmission: 10-Speed Automatic (44U)
STDAX	3.73 Axle Ratio
STDGV	GVWR: TBD
Wheels & Tires	
STDTR	Tires: 255/60R18 AS BSW
STDWL	Wheels: 18" x 8" 5-Spoke Painted Black Steel <i>Includes center caps and full size spare.</i>
Seats & Seat Trim	
9	Unique HD Cloth Front Bucket Seats w/Vinyl Rear <i>Includes reduced bolsters, driver 6-way power track (fore/aft, up/down, tilt with manual recline, 2-way manual lumbar, passenger 2-way manual track (fore/aft, with manual recline) and built-in steel intrusion plates in both front seatbacks.</i>
Other Options	
113WB	113" Wheelbase
PAINT	Monotone Paint Application
STDRD	Radio: AM/FM/MP3 Capable <i>Includes clock, 4 speakers and 4.2" color LCD screen center stack Smart Display.</i>

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.



Bozard Ford
540 Outlet Mall Blvd., Saint Augustine, Florida,
320840515
Office: 904-824-1641

**2020 Police Interceptor Utility, Sport
Utility**
AWD Base(K8A)
Price Level: 15

Selected Options (cont'd)

Code	Description
51R	Driver Only LED Spot Lamp (Unity)
55F	Remote Keyless Entry Key Fob w/o Key Pad <i>Does not include PATS. Includes 4-key fobs. Key fobs are not fobbed alike when ordered with Keyed-Alike.</i>
17A	Aux Air Conditioning
Emissions	
425	50 State Emission System Flexible Fuel Vehicle (FFV) system is standard equipment for vehicles equipped with the 3.3L V6 Direct-Injection engine.
Interior Colors	
96_01	Charcoal Black
Primary Colors	
YZ_01	Oxford White

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Panama City Beach Police Department- Police Fleet Vehicles
Ten (10) 2019 Ford SUV Police Interceptors (Patrol specs)

The City of Panama City Beach hereby solicits sealed bids for the following equipment:

(10) Ten- 2019 Ford SUV Police Interceptors (Patrol specs)

PLEASE SEE SPECIFICATIONS LISTED.

BID SHOULD INCLUDE ONLY THOSE SPECS.

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All Bids shall be firm and for a period of six (6) months after opening.

Advertisement Dates: Beginning October 18, 2018

SPECIFICATIONS NEEDED FOR THE 2019 FORD INTERCEPTORS SUV-K8A (PATROL)

2019 Ford Interceptor SUV-K8A

Spotlight (Driver's side)

Keyless Entry

Auxiliary A/C

****Please note if any changes have been made to the previous year's specifications for the 2019 model.**

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Advertisement Dates: Beginning October 4, 2018

SPECIFICATIONS NEEDED FOR THE 2019 FORD INTERCEPTORS SUV-K8A (PATROL)

2019 Ford Interceptor SUV-K8A

Spotlight (Driver's side)

Keyless Entry


Auxiliary A/C

**Please note if any changes have been made to the previous year's specifications for the 2019 model.

Bid Price Non Hybrid: \$34305.00
2020 Ford Police Utility

Bid Price Hybrid: \$37420.00
2020 Ford Police Utility

Auto Nation Ford Mobile
Ernest Lamb


251-709-2974

POLICE INTERCEPTOR CONTENT

Unique Police Interceptor Utility Features Include:

MODEL/SERIES/AVAILABILITY

- 3 Available Models
 - 3.3L V6 Direct-Injection Hybrid Engine System (AWD)★
 - 3.3L V6 Direct-Injection FFV AWD★
 - 3.0L V6 EcoBoost® AWD★
- 1 Available Series
 - 500A

MECHANICAL

- ★ 3.3L Police-Calibrated V6 Direct-Injection Hybrid Engine System
 - Standard (Hybrid technology is optimal for performance and long days spent idling on the job)
- AWD Drivetrain – Standard for enhanced handling precision and unsurpassed traction on wet or dry surfaces
- ★ Transmission – 10-speed automatic, police calibrated for maximum acceleration and faster closing speeds
- ★ Lithium-Ion Battery Pack
- ★ Brakes – Police calibrated high-performance regenerative braking system
- 4-Wheel heavy-duty disc w/heavy-duty front and rear calipers
- Brake Rotors – large mass for high thermal capacity and calipers with large swept area.
- Electric Power-Assist Steering (EPAS) – Heavy-Duty
- ★ DC/DC converter – 220-Amp (in lieu of alternator)
- ★ H7 AGM Battery (Standard; 800 CCA/80-amp)
- ★ H8 AGM Battery (Available; 850 CCA/92-amp)
- Cooling System – Heavy-duty, large high volume radiator, Engine oil cooler and transmission oil cooler
- Engine Idle Hour Meter
- Engine Hour Meter
- Powertrain mounts – Heavy-Duty.
- Wheels
 - Heavy-duty steel, vented with center cap
 - Full size spare tire w/TPMS
- ★ 50-State Emissions System

INTERIOR FEATURES

- ★ Cargo Area – Spacious area for police equipment; Lithium-Ion Battery Pack does not intrude into the cargo area
- Column Shifter
- Seats
 - Front – Police grade cloth – 6-way power-adjustable Manual lumbar, seatback foam designed to comfortably accommodate a utility belt
 - Built-in steel intrusion plates in both front-seatbacks
 - 2nd Row – Police grade vinyl, offers easy care for cleaning
- Flooring – Heavy-Duty vinyl; offers ease of cleaning and long-term durability
- Liftgate access with manual lock cylinder
- Simple Fleet Key (w/o microchip, easy to replace, 4-keys)
- Speedometer – Certified, digital readout in message center and analog gauge
- Universal equipment tray atop instrument panel (ideal for radar and other police equipment)

POLICE UPFIT FRIENDLY

- Consistent 11-inch space between driver and passenger seats for aftermarket consoles (9-inch center console mounting plate)
- Console mounting plate
- Dash pass-thru opening for aftermarket wiring
- Headliner – Easy to service
- Integrated LED police flashers (available)
- ★ Rear-center seat delete (available)
- Taillamps – Integrated police flashers (available)
- Two (2) 50 amp battery ground circuits – power distribution junction block (repositioned behind 2nd row seat floorboard).

TECHNOLOGY

- ★ Ford Telematics™ – Includes Ford Modem and complimentary 2-year trial subscription
- ★ Police Perimeter Alert (available; detects motion in an approximately 270-degree radius on sides and back of vehicle)
- ★ Rear Camera On-Demand (available)
- Front Interior Visor Light Bar (LED) Super low-profile warning LED light bar fully integrated into the top of the windshield near the headliner – fully programmable (available)
- Rear Spoiler Traffic Warning Lights (LED) – Fully integrated in rear spoiler for enhanced visibility; Provides red/blue/amber directional lighting – fully programmable (available)
- ★ Pre-Collision Assist with Pedestrian Detection (available; includes Forward Collision Warning and Automatic Emergency Braking and unique disable switch for Law Enforcement use)
- BLIS® – Blind Spot Monitoring with Cross-traffic Alert (available)
- ★ SYNC® 3 (available)
- Unique Steering Wheel (with 4-remappable latching switches)

SAFETY/SECURITY HIGHLIGHTS

- 75-mph Rear-Impact Crash Tested
 - Note: The full-size spare tire secured in the factory location is necessary to achieve police-rated 75-mph rear impact crash-test performance attributes
- AdvanceTrac® w/RSC® (Roll Stability Control™) police tuned gyroscopic sensors work seamlessly with the ABS
- Ballistic Door-Panels (National Institute of Justice (NIJ) certified to stop Type III, IV, all lesser NIJ rounds, as well as additional special threat rounds) (available)
- Exterior Key Locks – Driver, passenger and liftgate
- Police Engine Idle feature (available)
- Rear Video Camera with Washer (standard)
- Reverse Sensing (available)

GENERAL

- Underbody deflection plate no longer standard on EcoBoost® models (order 76D)
- Front headlamps lighting solution now includes Red/Blue/White LED Strobes

WARRANTY

- 3 Year / 36,000 Miles Bumper / Bumper
- 8 Year / 100,000 Miles Hybrid Unique Components

POWERTRAIN CARE EXTENDED SERVICE PLAN

- 5-year/100,000-mile Powertrain CARE Extended Service Plan (zero deductible) – Standard

Product Changes and Features Availability

Features, options and package content subject to change. Please check www.forddealer.com for the most current information.

★ = New for this model year

2020 POLICE INTERCEPTOR UTILITY STANDARD EQUIPMENT

The following items are std. 2020MY POLICE INTERCEPTOR UTILITY vehicle:

MECHANICAL

- Axle Ratio – 3.73 (AWD)
- Brakes – 4-Wheel Heavy-Duty Disc w/H.D. Front and Rear Calipers
- Column Shifter
- ★ DC/DC converter – 220-Amp (In lieu of alternator)
- Drivetrain – All-Wheel-Drive
- Electric Power-Assist Steering (EPAS) – Heavy-Duty
- Engine – 3.3L V6 Direct-Injection Hybrid Engine System
- Engine Hour Idle Meter
- Engine Hour Meter
- Engine Oil Cooler
- Fuel Tank – 19-gallons
- ★ H7 AGM Battery (800 CCA/80-amp)
- ★ Lithium-Ion Battery Pack
- Suspension – independent front & rear
- ★ Transmission – 10-speed automatic

EXTERIOR

- Antenna, Roof-mounted
- Cladding – Lower bodyside cladding MIC
- Door Handles – Black (MIC)
- Exhaust True Dual (down-turned)
- Front-Door-Lock Cylinders (Front Driver / Passenger / Liftgate)
- Glass – 2nd Row, Rear Quarter and Liftgate Privacy Glass
- Grille – Black (MIC)
- ★ Headlamps – Automatic, LED Low-and-High-Beam
 Note: Includes Front Headlamp / Police Interceptor Housing (with LED wig-wag feature)
 - Pre-drilled hole for side marker police use, does not include LED strobe, but includes LED wig-wag functionality (eliminates need to drill housing assemblies and provides LED wig-wag feature)
 - Pre-molded side warning LED holes with standard sealed capability (does not include LED installed lights)
 - Wig-wag default is traditional ping-pong pattern; can be programmed to triple-burst pattern or ping-pong / triple-burst
 Note: Must be wired to vehicle's light controller to enable wig-wag functionality; recommend Ready for the Road Package (67H) or Ultimate Wiring Package (67U)
- Liftgate – Manual 1-Piece – Fixed Glass w/Door-Lock Cylinder
- Mirrors – Black Caps (MIC), Power Electric Remote, Manual Folding with Integrated Spotter (integrated blind spot mirrors not included when equipped with BLIS®)
- Spare – Full size 18" Tire w/TPMS
- Spoiler – Painted Black
- Tailgate Handle – (MIC)
- Tail lamps – LED
- Tires – 255/60R18 A/S BSW
- Wheel-Lip Molding – Black (MIC)
- Wheels – 18" x 8.0 painted black steel with wheel hub cover
- Windshield – Acoustic Laminated

INTERIOR/COMFORT

- Cargo Hooks
- Climate Control – Dual-Zone Electronic Automatic Temperature Control (DEATC)
- Door-Locks
 - Power
 - Rear-Door Handles and Locks Operable
- Fixed Pedals (Driver Dead Pedal)
- Floor – Flooring – Heavy-Duty Thermoplastic Elastomer
- Glove Box – Locking/non-illuminated
- Grab Handles – (1 – Front-passenger side, 2-Rear)
- Liftgate Release Switch located in overhead console (45 second timeout feature)
- Lighting
 - Overhead Console
 - Red/White Task Lighting in Overhead Console
 - 3rd row overhead map light

INTERIOR/COMFORT (continued)

- Mirror – Day/night Rear View
- Particulate Air Filter
- Powerpoints – (1) First Row
- Rear-door closeout panels
- Rear-window Defrost
- Scuff Plates – Front & Rear
- Seats
 - 1st Row Police Grade Cloth Trim, Dual Front Buckets with reduced bolsters
 - 1st Row – Driver 6-way Power track (fore/aft. Up/down, tilt with manual recline, 2-way manual lumbar)
 - 1st Row – Passenger 2-way manual track (fore/aft. with manual recline)
 - Built-in steel intrusion plates in both driver/passenger seatbacks
 - 2nd Row Vinyl, 35/30/35 Split Bench Seat (manual fold-flat, no tumble) – fixed seat track
- Speed (Cruise) Control
- Speedometer – Calibrated (Includes digital readout)
- Steering Wheel – Manual / Tilt / Telescoping, Urethane wheel finish w/Silver Painted Bezels with Speed Controls and 4-user configurable latching switches
- Sun visors, color-keyed, non-illuminated
- Universal Top Tray – Center of I/P for mounting aftermarket equipment
- Windows, Power, 1-touch Up/Down Front Driver/Passenger-Side with disable feature

SAFETY/SECURITY

- AdvanceTrac® w/RSC® (Roll Stability Control™)
- Airbags, dual-stage driver & front-passenger, side seat, passenger-side knee, Roll Curtain Airbags and Safety Canopy®
- Anti-Lock Brakes (ABS) with Traction Control
- ★ Brakes – Police calibrated high-performance regenerative braking system
- Belt-Minder® (Front Driver / Passenger)
- Child-Safety Locks (capped)
- Individual Tire Pressure Monitoring System (TPMS)
- LATCH (Lower Anchors and Tethers for Children) system on rear outboard seat locations
- Rearview Camera with Washer viewable in 4.2" center stack.
 Note: Rearview Camera viewable in rearview mirror (available) – order 87R (no-charge option)
- Seat Belts, Pretensioner/Energy-Management System w/adjustable height in 1st Row
- SOS Post-Crash Alert System™

FUNCTIONAL

- Audio
 - AM/FM / MP3 Capable / Clock / 4-speakers
 - Bluetooth® interface★
 - 4.2" Color LCD Screen Center-Stack "Smart Display"
 Note: Standard radio does not include USB Port or Aux. Audio Input Jack; Aux. Audio Input Jack requires SYNC 3®
- Easy Fuel® Capless Fuel-Filler
- ★ Ford Telematics™ – Includes Ford Modem and complimentary 2-year trial subscription
- Front door tether straps (driver/passenger)
- Power pigtail harness
- ★ Recovery Hooks; two in front and trailer bar in rear
- Simple Fleece Key (w/o microchip, easy to replace; 4-keys)
- Two-way radio pre-wire
- Two (2) 50 amp battery ground circuits – power distribution junction block (behind 2nd row passenger seat floorboard)
- Wipers – Front Speed-Sensitive Intermittent; Rear Dual Speed Wiper

★ = New for this model year

2020 POLICE INTERCEPTOR UTILITY EQUIPMENT GROUP

Series	Option Code	Police Interceptor 500A
Police Interceptor Utility AWD	K8A	S
AWD 3.3L V6 Direct-Injection Hybrid Engine System with 10-Speed Automatic Transmission (136-MPH Top Speed)	99W/44B	S
AWD 3.3L V6 Direct-Injection FFV with 10-Speed Automatic Transmission (136-MPH Top Speed) Note: Deletes Regenerative Braking and Lithium-Ion Battery Pack; adds 250-Amp Alternator, replaces H7 AGM battery (800 CCA/80-amp) with H7 SLI battery (730 CCA/80-amp) and replaces 19-gallon tank with 21.4-gallon tank	99B/44U	O
AWD 3.0L V6 EcoBoost® with 10-Speed Automatic Transmission – (148-MPH Top Speed) Note: Deletes Regenerative Braking and Lithium-Ion Battery Pack; adds 250-Amp Alternator, replaces H7 AGM battery (800 CCA/80-amp) with H7 SLI battery (730 CCA/80-amp) and replaces 19-gallon tank with 21.4-gallon tank	99C/44U	O
EQUIPMENT GROUP		
Interior Upgrade Package <ul style="list-style-type: none"> • 1st and 2nd Row Carpet Floor Covering • Cloth Seats – Rear • Center Floor Console less shifter w/unique Police console finish plate • Includes Console and Top Plate with 2 cup holders • Floor Mats, front and rear (carpeted) • Deletes the standard console mounting plate (85D) • SYNC® 3* <ul style="list-style-type: none"> – Enhanced Voice Recognition Communications and Entertainment System – 4.2" Color LCD Screen Center-Stack "Smart Display" – AppLink® – 911 Assist® <p>Note: SYNC® AppLink® lets you control some of your favorite compatible mobile apps with your voice. It is compatible with select smartphone platforms. Commands may vary by phone and AppLink® software.</p> <p>Note: Not available with options: 67H, 67U, 85R</p>	65U	O
Front Headlamp Lighting Solution <ul style="list-style-type: none"> • Includes LED Low beam/High beam headlamp, Wig-wag function and Red/Blue/White LED side warning lights (driver's side White/Red / passenger side White/Blue) • Includes pre-wire for grille LED lights, siren and speaker (60A) • Wiring, LED lights included. Controller "not" included <p>Note: Not available with option: 67H</p> <p>Note: Recommend using Ultimate Wiring Package (67U)</p>	66A	O
Tail Lamp / Police Interceptor Housing Only <ul style="list-style-type: none"> • Pre-existing holes with standard twist lock sealed capability (does not include LED strobe) (eliminates need to drill housing assemblies) <p>Note: Not available with options: 66B and 67H</p>	86T	O
Tail Lamp Lighting Solution <ul style="list-style-type: none"> • Includes LED lights plus two (2) rear integrated hemispheric lighthouse white LED side warning lights in taillamps • LED lights only. Wiring, controller "not" included <p>Note: Not available with option: 67H</p> <p>Note: Recommend using Ultimate Wiring Package (67U)</p>	66B	O
Rear Lighting Solution <ul style="list-style-type: none"> • Includes two (2) backlit flashing linear high-intensity LED lights (driver's side red / passenger side blue) mounted to inside liftgate glass • Includes two (2) backlit flashing linear high-intensity LED lights (driver's side red / Passenger side blue) installed on inside lip of liftgate (lights activate when liftgate is open) • LED lights only. Wiring, controller "not" included <p>Note: Not available with option: 67H</p> <p>Note: LED lights only – does "not" include wiring or controller</p> <p>Note: Recommend using Ultimate Wiring Package (67U)</p>	66C	O
Ready for the Road Package: All-in Complete Package – Includes Police Interceptor Packages: 66A, 66B, 66C, plus <ul style="list-style-type: none"> • Whelen Cencom Light Controller Head with dimmable backlight • Whelen Cencom Relay Center / Siren / Amp w/Traffic Advisor control (mounted behind 2nd row seat) • Light Controller / Relay Cencom Wiring (wiring harness) w/additional input/output pigtail • High current pigtail • Whelen Specific WECAN Cable (console to cargo area) connects Cencom to Control Head • Pre-wiring for grille LED lights, siren and speaker (60A) • Rear console plate (85R) – contours through 2nd row; channel for wiring • Grille linear LED Lights (Red / Blue) and harness • 100-Watt Siren / Speaker • Hidden Door-Lock Plunger w/Rear-door controls inoperable (locks, handles and windows) (52P) <p>Note: Not available with options: 66A, 66B, 66C, 67U and 65U</p>	67H	O
Ultimate Wiring Package Includes the following: <ul style="list-style-type: none"> • Rear console mounting plate (85R) – contours through 2nd row; channel for wiring • Pre-wiring for grille LED lights, siren and speaker (60A) • Wiring harness I/P to rear cargo area (overlay) <ul style="list-style-type: none"> – Two (2) light cables – supports up to six (6) LED lights (engine compartment/grille) – One (1) 10-amp siren/speaker circuit engine cargo area • Rear hatch/cargo area wiring – supports up to six (6) rear LED lights • Does "not" include LED lights, side connectors or controller <ul style="list-style-type: none"> – Recommend Police Wire Harness Connector Kit 67V <p>Note: Not available with options: 65U, 67H</p>	67U	O

* = New for this model year

P = Included in Equipment Group, S = Standard Equipment, O = Optional

Non Hybrid

VIRT1DP

CNGP530

VEHICLE ORDER CONFIRMATION

10/05/18 12:57:14

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Dealer: F24017

2020 EXPLORER 4-DOOR

Page: 1 of 1

Order No: 0001 Priority: E2 Ord FIN: QB163 Order Type: 5B Price Level: 015

Ord Code: 500A Cust/Flt Name: PANAMA CTYBCH PO Number:

RETAIL

RETAIL

K8A 4DR AWD POLICE \$40615

SP FLT ACCT CR

.119.09" WB

FUEL CHARGE

YZ OXFORD WHITE

B4A NET INV FLT OPT NC

9 CLTH BKTS/VNL R

DEST AND DELIV 995

6 EBONY BLACK

TOTAL BASE AND OPTIONS 39170

500A EQUIP GRP

TOTAL 39170

.AM/FM STEREO

THIS IS NOT AN INVOICE

99B 3.3L V6 TIVCT (3530)

44U 10SPD AUTO TRAN NC

17A AUX CLIMATE CTL 610

425 50 STATE EMISS NC

51P DRV SPT LMP PRP 140

55F KEYLESS - 4 FOB 340

FLEX-FUEL

SP DLR ACCT ADJ

F1=Help

F2=Return to Order

F3/F12=Veh Ord Menu

F4=Submit

F5=Add to Library

S099 - PRESS F4 TO SUBMIT

QC06529

V1DP0129

2,6

VIRTCDP VEH EN

CNGP530

VEHICLE ORDER CONFIRMATION

10/05/18 12:57:27

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Dealer: F24017

2020 EXPLORER 4-DOOR

Page: 1 of 1

Order No: 0001 Priority: E2 Ord FIN: QB163 Order Type: 5B Price Level: 015

Ord Code: 500A Cust/Flt Name: PANAMA CTYBCH PO Number:

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RETAIL

K8A 4DR AWD POLICE \$40615
.119.09" WB

FUEL CHARGE

YZ OXFORD WHITE
9 CLTH BKTS/VNL R

B4A NET INV FLT OPT NC
DEST AND DELIV 995

6 EBONY BLACK
500A EQUIP GRP

TOTAL BASE AND OPTIONS 42700
TOTAL 42700

.AM/FM STEREO

THIS IS NOT AN INVOICE

99W .3.3L HYBRID NC

44B .MOD HYBRID TRAN NC

17A AUX CLIMATE CTL 610

425 50 STATE EMISS NC

51P DRV SPT LMP PRP 140

55F KEYLESS - 4 FOB 340

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QC06529

V1DP0129

2,6

Panama City Beach Police Department- Police Fleet Vehicles

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Advertisement Dates: Beginning October 18, 2018

SPECIFICATIONS NEEDED FOR THE 2019 FORD INTERCEPTORS SUV-K8A (PATROL)

2019 Ford Interceptor SUV-K8A ✓

Spotlight (Driver's side) ✓

Keyless Entry

Auxiliary A/C ✓

****Please note if any changes have been made to the previous year's specifications for the 2019 model.**

Ads, Bids and RFQ's

Extended Notice to Bid- PD Fleet Vehicles 2019 Ford SUVs Police Interceptors

Category: Admin
RFP Number: 110118.PD SUV
Start Date: 10/18/2018 4:16 PM
Close Date: 11/01/2018 10:00 AM

110118.NOTICE TO BID-PD FLEET VEHICLES

Click tab to the left to view documents

Panama City Beach
Police Department-
Police Fleet Vehicles

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Return to full list >>

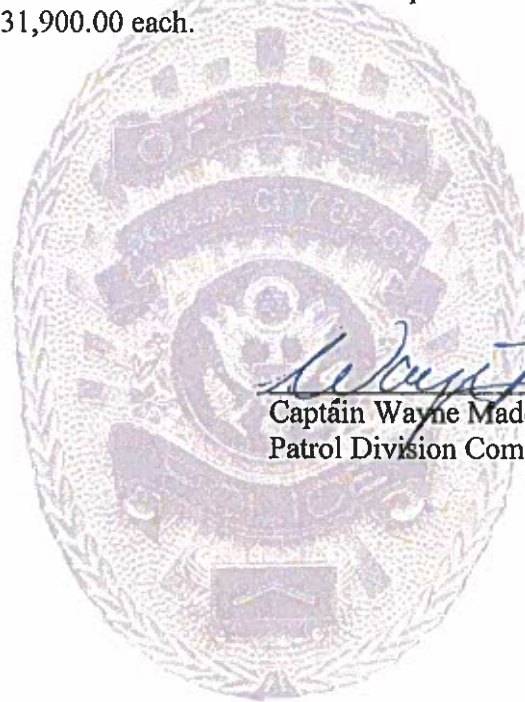
Panama City Beach Police Department

17115 Panama City Beach Parkway
Panama City Beach, Florida 32413-2128
(850) 233-5000 Fax (850)233-5013

www.beachpolice.org

2018-2019 Vehicle Purchase Request

On November 1, 2018, I opened bids for vehicle purchase. We received three (3) bids from AutoNation Ford Mobile, Bozard Ford, and Beck Auto Sales. I am requesting we utilize the lowest qualified bid from Beck Auto Sales to purchase ten (10) Ford Explorer Police Interceptors at \$31,900.00 each.




Captain Wayne Maddox
Patrol Division Commander



CITY OF PANAMA CITY BEACH AGENDA ITEM SUMMARY

1. DEPARTMENT MAKING REQUEST/NAME:

Panama City Beach Police Department

2. MEETING DATE:

December 13, 2018

3. REQUESTED MOTION/ACTION:

We respectfully request the Council's approval to utilize the Emergency Equipment bid submitted by HG2 Emergency Lighting.

4. AGENDA

PRESENTATION
PUBLIC HEARING
CONSENT
REGULAR

5. IS THIS ITEM BUDGETED (IF APPLICABLE)? Yes No N/A
BUDGET AMENDMENT OR N/A

DETAILED BUDGET AMENDMENT ATTACHED Yes No N/A

6. BACKGROUND: (WHY IS THE ACTION NECESSARY, WHAT GOAL WILL BE ACHIEVED)

We respectfully request the Council's approval to utilize the Emergency Equipment bid submitted by HG2 Emergency Lighting. This was the only qualified bid received for this purchase and will equip three (3) new vehicles at price of \$25,788.00.

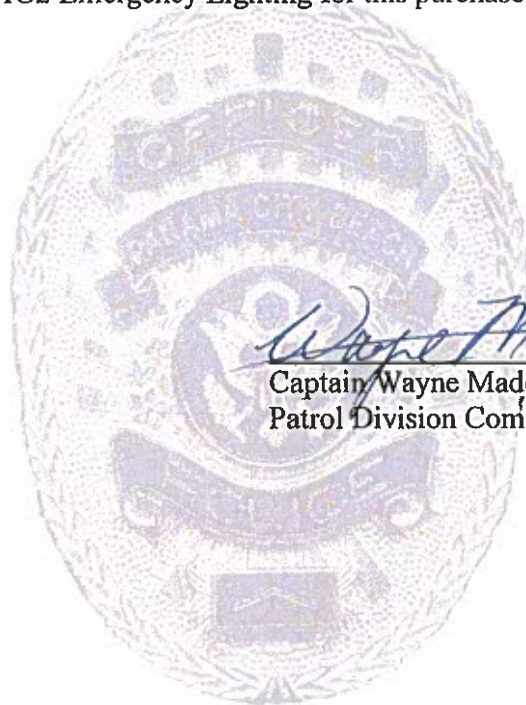
Panama City Beach Police Department

17115 Panama City Beach Parkway
Panama City Beach, Florida 32413-2128
(850) 233-5000 Fax (850)233-5013

www.beachpolice.org

2018 Vehicle Emergency Equipment Installation Purchase Request

On October 3, 2018, I opened bids for Emergency Equipment Installation. We received one (1) qualified bid from HG2 Emergency Lighting. I am requesting we utilize the qualified bid from HG2 Emergency Lighting for this purchase.




Captain Wayne Maddox
Patrol Division Commander



Panama City Beach Police Department

Attn: Captain Wayne Maddox
17115 Panama City Beach Parkway
Panama City Beach, FL 32413

Police Fleet Vehicle Equipment Install Services



Due Date: October 3, 2018

Submitted by:
Ali Bhojani
Director of Sales



Panama City Beach PD 2018-19 Vehicle Quote

Marked Patrol Units Ford Interceptor SUV

Lightbar	Whelen 48" Liberty 2WeCan Lightbar Blue/Blue with Alleys and Takedown	IW8BB-BB	\$	1,800.00
Light Controller	Whelen Light & Siren Controller	295SLSA6	\$	-
Speaker	Whelen 100 Watt Speaker	SA315P	\$	-
Side Runners	HG2 Emergency Lighting 68" Blue/Blue Side Runner Lights	HG22PC68BB	\$	699.00
Rear Window Lights	HG2 Emergency Lighting Rear Visor with Back Firing Lights	HG2RWINTSUV-BB	\$	699.00
Rear Cargo Window Lights	HG2 Emergency Lighting Rear Side Cargo Window Lights	HG2QTRPNL-BB	\$	499.00
Rear License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Rear	HG2CROSSFIRE-BB	\$	359.00
Front License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Front	HG2CROSSFIRE-BB	\$	359.00
Fog Lights	HG2 Emergency Lighting Blue/Blue Fog Lights	HG2FGLTINTSUV-BB	\$	489.00
Strobe Lights	Whelen Vertex in Head Lights & Tail Lights Blue Qty:4	VTX609B	\$	260.00
Rear Transport Seat	Rear Transport Seat (Setina)	QK0494ITU12	\$	649.00
Prisoner Partition	Prisoner Partition (Setina) 10XL with Chicago Grill	PK1130ITU12SCA	\$	699.00
Rear Cargo Divider	Rear Cargo Divider (Setina) 12VS	PK0123ITU122ND	\$	499.00
Thor Power Inverter	Thor Power Inverter (750 W)	TH750	\$	55.00
Stinger Flashlight Charger	Stinger Flashlight Charger	SL75100, SL22050	\$	25.00
Gun Rack	Setina T-Rail Mount 1-Standard Shotgun Lock, 1 Standard Rifle	GK11191B1SSSCA	\$	409.00
Center Console/Laptop Motion	Center Console with Cupholder, Arm Rest and Mongoose Motion Device (Gam	7170-0166	\$	450.00
Laptop Docking Station	Gamber Johnson Notepad V	7160-0250	\$	250.00
Window tint	Window Tint 2 Front Windows & Front Strip	WINDTNT	\$	99.00
	Lifetime Warranty on Window Tint and Workmanship			
Graphics	Vehicle Graphics	VEH-DCL	\$	499.00
	Labor		\$	1,098.00
	Total Package Price		\$	9,896.00
	Discount		\$	(1,300.00)
	Total Price		\$	8,596.00
		10		\$85,960.00

Marked AWD Pick Up Truck

Front Windshield	HG2 Emergency Lighting 1 Piece Front Visor Light Blue/Blue with Takedowns	HG2FWSILV-BBW	\$	759.00
Side Runners	HG2 Emergency Lighting 72" Blue/Blue Side Runner Lights	HG22PC72BB	\$	699.00
Rear Window Lights	HG2 Emergency Lighting Rear Window Light	HG2RWSILV-BB	\$	699.00
Rear Tailgate Lights	HG2 Emergency Lighting Rear Tailgate Lights	HG21TK62-BB	\$	399.00
Rear License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Rear	HG2CROSSFIRE-BB	\$	359.00
Front License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Front	HG2CROSSFIRE-BB	\$	359.00
Grill Lights	HG2 Emergency Lighting Blue/Blue Grill Lights	HG2SILVD-BB	\$	419.00
Strobe Lights	Whelen Vertex in Tail Lights Blue Qty:2 and LED Spotlight Bulb	VTX609B/LEDBLB	\$	260.00
Light Controller	Whelen 295SLSA6 Handheld Siren	HHS2200	\$	320.00
Speaker	Whelen 100 Watt Speaker	SA315P	\$	150.00
Graphics	Vehicle Graphics	VEH-DCL	\$	499.00
Console	Gamber Johnson Console with Wiring Case and Motion Device, Armrest	7170-0237-04	\$	475.00
Laptop Docking Station	Gamber Johnson Notepad V	7160-0250	\$	250.00
Inverter	Thor Power Inverter	TH750	\$	55.00
Window Tint	Window Tint Full Truck Plus Front Strip	WINDWTNT	\$	189.00
Gun Rack	Setina T-Rail Mount 1-Standard Shotgun Lock, 1 Standard Rifle	GK11191B1SSSCA	\$	409.00
	Labor		\$	750.00
	Total Package Price		\$	7,050.00
	Discount		\$	(1,342.00)
	Total Price		\$	5,708.00
		5		\$28,540.00

Unmarked Units Dodge Charger

Front Windshield	HG2 Emergency Lighting 1 Piece Front Visor Light Blue/Blue with Takedowns	HG2FWINTSUV-BBW	\$	759.00
Side Runners	HG2 Emergency Lighting 68" Blue/Blue Side Runner Lights	HG22PC68BB	\$	699.00
Rear Window Lights	HG2 Emergency Lighting Rear Visor	HG2RWINTSUV-BB	\$	699.00
Rear Cargo Window Lights	HG2 Emergency Lighting Rear Side Cargo Window Lights	HG2QTRPNL-BB	\$	499.00
Rear License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Rear	HG2CROSSFIRE-BB	\$	359.00
Front License Plate	HG2 Emergency Lighting Crossfire License Plate Frame Front	HG2CROSSFIRE-BB	\$	359.00
Fog Lights	HG2 Emergency Lighting Blue/Blue Fog Lights	HG2FGLTINTSUV-BB	\$	489.00
Wig-Wag	Wig-Wag Headlights, Tail Lights, Corner Markers and Reverse Lights	HG2WGWG-CHR	\$	260.00
Light Controller	Whelen HHS2200 Handheld Siren	HHS2200	\$	320.00
Window Tint	Window Tint Full Vehicle with Front Strip	WINDTINT	\$	189.00
Speaker	Whelen 100 Watt Speaker	SA315P	\$	150.00
Gun Rack	Setina T-Rail Mount 1-Standard Shotgun Lock, 1 Standard Rifle	GK11191B1SSSCA	\$	409.00
	Labor		\$	750.00
	Total Package Price		\$	5,941.00
	Discount		\$	(1,342.00)
	Total Price		\$	4,599.00
		1		\$4,599.00



HG2 Emergency Lighting
477 N Semoran Blvd
Orlando, FL 32807
866-468-4569

Quote Issued by: Ali Bhojani

	\$119,099.00
	\$7,443.69

**Panama City Beach Police Department- Police Fleet Vehicle
Equipment Install Services**

The City of Panama City Beach hereby solicits sealed bids for the following equipment install services for the below vehicles:

- (1) One- Un-Marked Dodge Charger
- (5) Five- Marked Chevy Silverado, Ford F-150 or Dodge Ram
4WD
- (10) Ten- Marked Patrol Ford SUV Police Interceptors

**PLEASE SEE ATTACHED SPECIFICATION SHEET FOR THE
EQUIPMENT NEEDED FOR EACH VEHICLE CATEGORY: ALSO
ATTACHED ARE PHOTOGRAPHS FOR OUR CURRENT DECAL
SCHEME NEEDED WHICH WILL BE NEEDED FOR ALL MARKED
VEHICLES.**

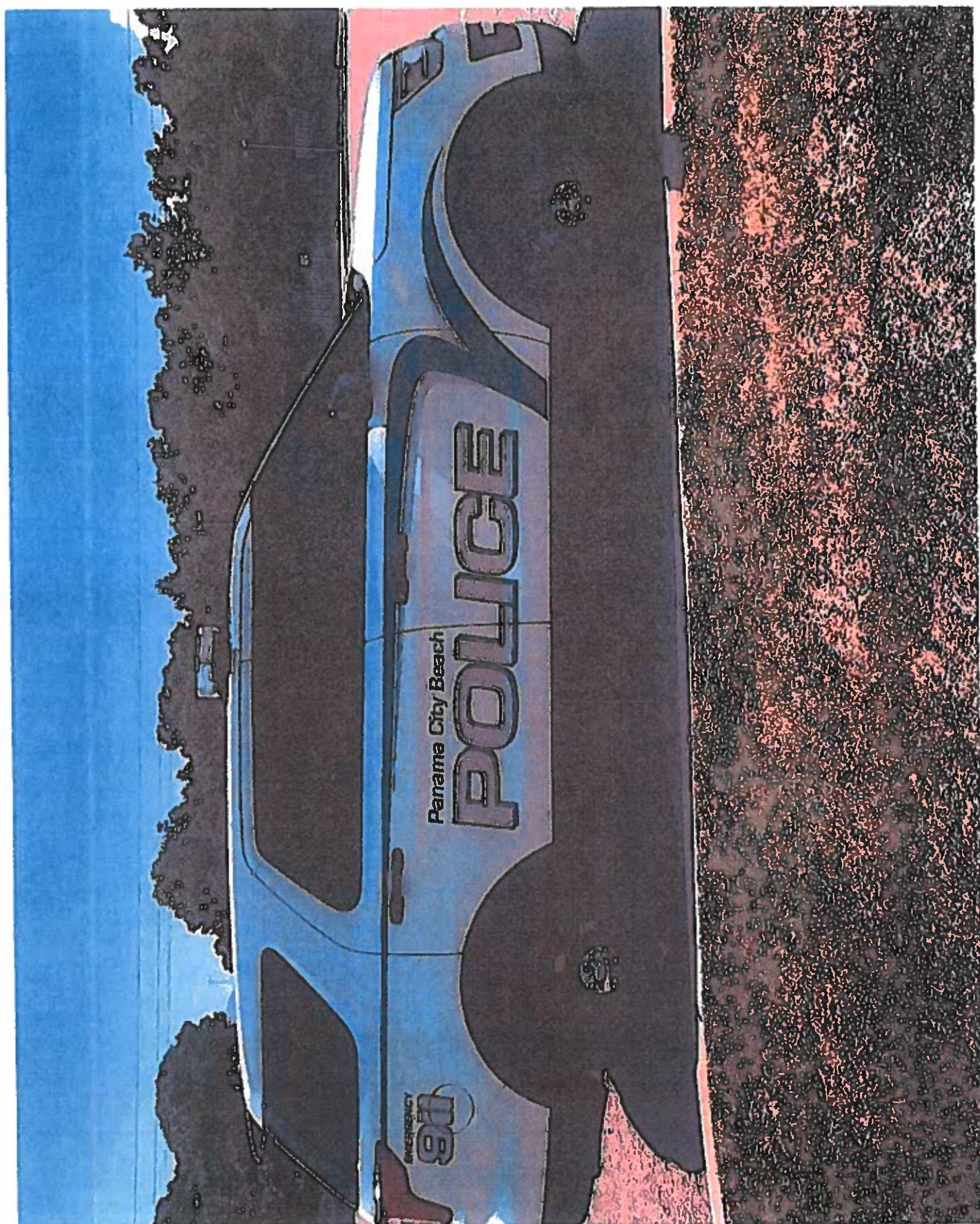
The Bids should include ALL fees, including delivery charges (if any).

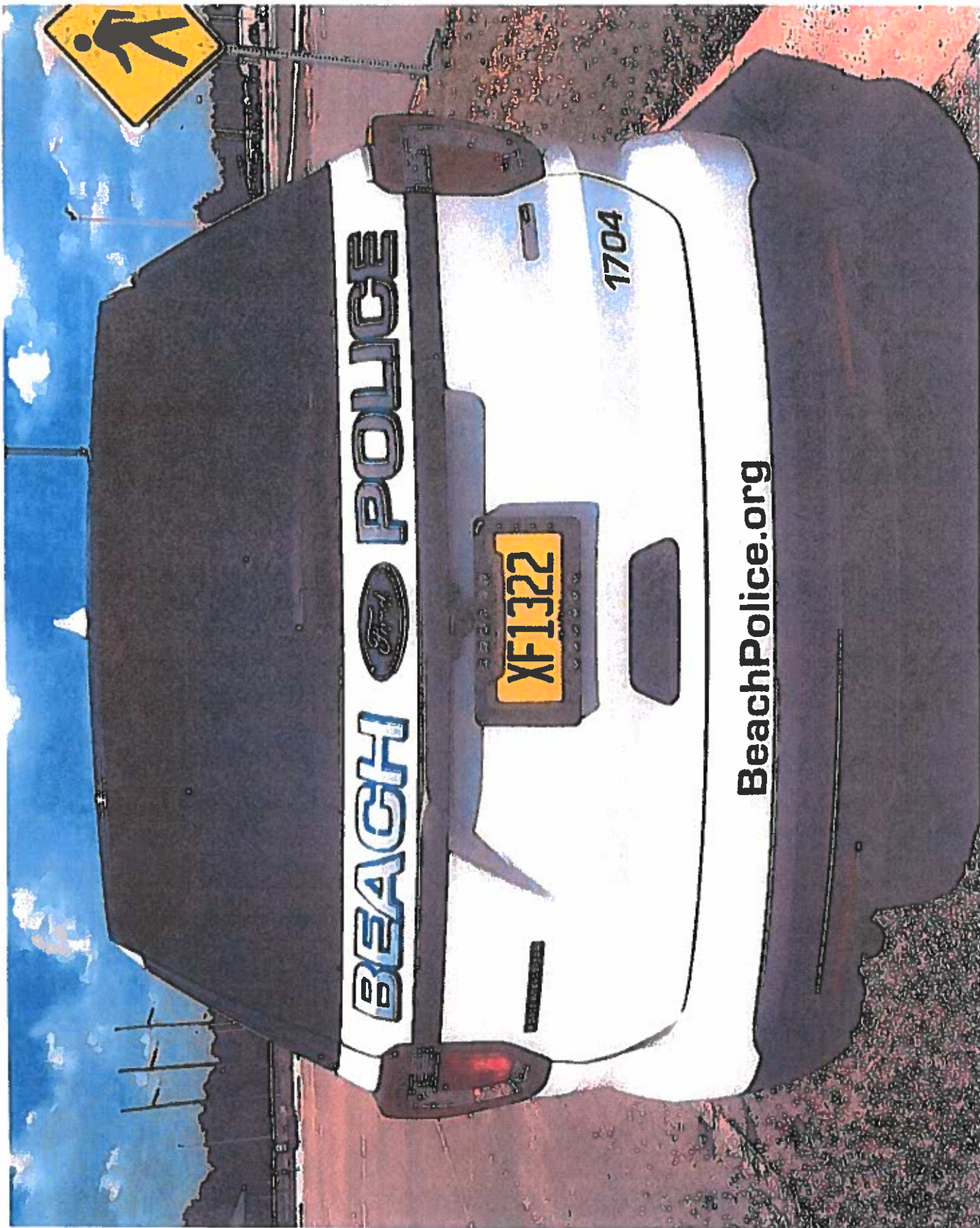
Bids must be sealed and will be received until **12:00 P.M. (noon) Central Time, October 3, 2018** at the **City of Panama City Beach Police Department, Attn: Captain Wayne Maddox, 17115 Panama City Beach Parkway, Panama City Beach, FL 32413**, and will be opened and read publicly immediately thereafter.

The City reserves the right to reject any and all Bids and to waive and formality in Bids received. All Bidders shall comply with all applicable State and local laws concerning licensing, registration, and regulations of businesses in the State of Florida.

All Bids shall be firm and for a period of six (6) months after opening.

Advertisement Dates: Beginning September 14, 2018





BeachPolice.org



