



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header #:

List View

General Information | Contract | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1948331

Procurement Type: Central Master Agreement

Vendor ID: 000000217696

Legal Name: BK TECHNOLOGIES INC

Alias(ISA)

Total Bid: 00.00

Response Date: 04/06/2025

Response Time: 0:40

Responded By User ID: Rain

First Name: Carolyn

Last Name: French

Email: chench@bktechnologies.com

Phone: 321-337-1306

SO Doc Code: CRFO

SO Dept: 9305

SO Doc ID: F0R2589000693

Published Date: 3/7/25

Close Date: 4/19/25

Close Time: 13:36

Status: Closed

Solicitation Description: PORTABLE RADIOS & ACCESSORIES

Total of Header Attachments: 2

Total of All Attachments: 2



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1648331
Solicitation Description: PORTABLE RADIOS & ACCESSORIES
Proc Type: Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2025-04-10 13:30	SR 0305 ESR03172500000005520	1

VENDOR
000000217699
BK TECHNOLOGIES INC

Solicitation Number: CRFQ 0305 FOR2500000003
Total Bid: 0
Response Date: 2025-04-09
Response Time: 09:40:55
Comments: BK Technologies respectfully submits the attached response to this RFQ. We appreciate the opportunity to support WV Forestry and look forward to working with you.

FOR INFORMATION CONTACT THE BUYER
Brandon L Barr
304-558-2652
brandon.l.barr@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	VEHICLE RADIOS & ACCESSORIES	0.00000	EA	1548598.100000	0.00

Comm Code	Manufacturer	Specification	Model #
43191510			

Commodity Line Comments: See Exhibit A - Pricing Page for detailed pricing.
The price listed in this line item is the total price provided on Exhibit A - Pricing Page as instructed by the RFQ Section 4.2.

Extended Description:
Refer to Exhibit A

EXHIBIT A – Pricing Page
CRQM 0305 FOR2500000001
PORTABLE RADIOS AND ACCESSORIES

Section	Description	Manufacturer and Model if Bidding "or Equal" products	Unit of Measure	Estimated Quantity	Unit Cost	Extended Cost
3.1.1	BK Technologies BKR9000 Multi-Band P25 portable radio or equal, as approved by the WVSIRN & NIFC. Includes BKR-BAB All Bands Activated (VHF,UHF, 700/800) BKR0579 Phase 1 and BKR0593 Phase 2 Trunking Features, BKR0893-148-E20 All Band Antenna, BKR0303-2 Two Bay Desktop Charger	BKR9000-T3.5BS (BKR9000-T3.5BS, BKR-BAB, BKR0579, BKR0593, BKR0893-148-E20, BKR0303-2)	EA	150	\$4,571.70	\$ 685,755.00
3.1.2	Lithium-Ion Batteries	BKR0102	EA	300	\$191.10	\$ 57,330.00
3.1.3	Programming cables, BK Technologies Programming Cables, or equal	BKR0710	EA	12	\$111.30	\$1,335.60 -
3.1.4	Hi Temperature Remote Speaker Microphone	BKR0206	EA	150	\$290.50	\$43,575.00 -
3.1.5	Portable Radio Travel Charger	BKR0355	EA	125	\$244.30	\$30,537.50 -
3.1.1.7.17	BKRangeMax™ Antenna, Portable, VHF,136-174 MHz, 1/4 wave, whip 20", built-in GPS Antenna, Orange or Equal	BKR0813	EA	150	\$67.20	\$ 10,080.00 -
3.1.1.7.18	Clamshell AA Battery Pack, Orange	BKR0122	EA	300	\$114.10	\$34,230.00 -
					TOTAL	\$ 1,548,598.10

Please note: This information is being captured for auditing purposes.

** ESTIMATED QUANTITIES ARE FOR BIDDING PURPOSES ONLY. Actual Qty ordered MAY VARY.

**Pricing sheet shall be completed and returned with the bid.

Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation.

BIDDER /VENDOR INFORMATION:

Vendor Name:	BK Technologies, Inc.
Address:	7100 Technology Drive
City, St. Zip:	West Melbourne, FL 32904
Phone No.:	321-237-1306
Email Address:	cfrench@bktechnologies.com / contracts@bktechnologies.com



Vendor Signature:

04/08/2025

Date:

Please note: WV SIRN is requiring Link Layer Authentication by July 2025. See OPTIONS below - WV SIRN required Link Layer Authentication by July 2025

Qty.	Part #	Description	Price Each	Total Price
150	BKR5780	Radio Authentication (At time of purchase)	\$100.80	\$15,120.00
150	BKRA5780	Radio Authentication (After initial purchase)	\$166.60	\$24,990.00



CRFQ 0305 FOR2500000003
PORTABLE RADIOS & ACCESSORIES
State of West Virginia, WV Division of Forestry
Due: 04/10/2025 1:30pm ET



BK Technologies, Inc.
7100 Technology Drive
W. Melbourne, FL 32904
www.bktechnologies.com

Small Business Classification

CAGE CODE: 8BAN1
UNIQUE ENTITY ID: DETLJCBTUBM4
DUNS: 612003681
FEIN: 59-3486297

Pricing as per
Exhibit A - Pricing Page

FOB Destination
Shipping – BK Paid

Contacts:

Carolyn French
Contract Administrator
321-237-1306
cfrench@bktechnologies.com

Lee Canipe, ENP
Regional Sales Manager - East
Cell: 864-733-1400
lcanipe@bktechnologies.com



April 8, 2025

Submission via wvOASIS (West Virginia VSS - Welcome to State of West Virginia Vendor and Sub Recipient Self Service)

Brandon Barr, Buyer
State of West Virginia
Department of Administration, Purchasing Division
2019 Washington Street East, Post Office Box 50130
Charleston, WV 25305-0130
Email: Brandon.L.Barr@wv.gov

Re: CRFQ 0305 FOR2500000003 - PORTABLE RADIOS & ACCESSORIES - WV Division of Forestry

To Whom It May Concern:

BK Technologies, Inc. (BK Technologies) is pleased to submit the following response to the **State of West Virginia, WV Division of Forestry's** request for proposal for **PORTABLE RADIOS & ACCESSORIES**. We look forward to supporting the **WV Division of Forestry** through this new opportunity.

We are a North American small business manufacturer based in West Melbourne and have been in business for more than seventy (70) years. Our Solutions business unit is dedicated to developing innovative solutions that create reliable communication platforms to promote fast, unified responses for planned and emergency events. BK radios are designed and developed in the United States. As the original equipment manufacturer (OEM) of our products, we design, engineer, and market wireless communications P25 products consisting of two-way land mobile radios, repeaters, base stations, and related components and subsystems. Our mission is to remain deeply rooted in the critical communications industry for all public safety heroes, first responders, and military. We are also proud to say that more than ten percent (10%) of our workforce are veterans.

Advantages to selecting BK Technologies for your needs.

1. NO Licensing fees charged for the life of the radio.
2. NO firmware fees for (enhancements/patches) charged for the life of the radio. Download at NO cost from the Customer Centric web portal.
3. NO cost for programming software updates for the life of the radio. Registered users can download from the Customer Centric web portal.
4. NO Proprietary features.
5. FREE training webinars – available on our YouTube channel
6. MIL-STD and ISO 9001:2015 certified.
7. The BKR 9000 has a standard 5 year warranty. All other radios have a standard 2 year warranty with the option to purchase a 3-year extended warranty, for a total of 5 years of coverage. Accessories have a standard 1 year warranty.

BK Technologies has 4 core tenants we follow in our daily mission:

1. Customer Centric
2. Tenacious commitment to quality
3. Continuous Improvement
4. Growth

Please note: WV SIRN is requiring Link Layer Authentication by July 2025. We have included the required options at the bottom of Exhibit A - Pricing Page.

BK Technologies is ready to provide **PORTABLE RADIOS & ACCESSORIES** for the above referenced RFP and are confident they will meet and exceed current and future communication needs of the **WV Division of Forestry**. In addition, we are prepared to provide world class solutions with industry leading service and support to the full range of the **WV Division of Forestry's** needs.

Very truly yours,

A handwritten signature in blue ink, appearing to read 'Carolyn French', with a horizontal line drawn through the middle of the signature.

Carolyn French
Contract Administrator

Capability Statement

BK TECHNOLOGIES BACKGROUND			
Company Name:	BK Technologies, Inc.	SOCIO-ECONOMIC PROGRAMS	
		Small	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Address:	7100 Technology Drive West Melbourne, FL 32904	Small Disadvantaged	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
		8(a)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Contact's Name:	Lee Canipe, ENP Regional Sales Manager - East	Women Owned	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Telephone Number:	864-733-1400	HUBZone	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Email Address:	lcanipe@bktechnologies.com	Veteran Owned	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Website:	www.bktechnologies.com	Service-Disabled Veteran	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Fax Number:		Certifications: ISO9001/2015, NIFC, Wildland Fire Approvals: AES, OTAR APCO P25 manufacturer of American Made two-way radios for first responders, DOD, Federal, State & local, Public Safety, Air Force, Navy, USMC, Army APCO P25 portables, mobiles, base stations & repeaters, ALL Band Portable radios with LTE for First Net, BKR family of P25 radios	
DUNS Number:	612003681		
Cage Code:	8BAN1		
FEIN:	59-3486297		
SERVICES/PRODUCTS		NAICS CODE	DESCRIPTION
<ul style="list-style-type: none"> Tactical Communications Land Mobile Radios (LMR) P25 Digital Radios/Narrowband Radios Encrypted Radios/OTAR/OTAP/LLA/GPS 		<ul style="list-style-type: none"> 334220 Size Standard	Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing \$ - None / 750 Employees
<ul style="list-style-type: none"> Land Mobile Radios (LMR) P25 Digital Radios/Narrowband Radios Encrypted Radios/OTAR/OTAP/LLA/GPS 		<ul style="list-style-type: none"> 334290 Size Standard	Other Communications Equipment Manufacturing \$ - None / 750 Employees
<ul style="list-style-type: none"> Land Mobile Radios (LMR) P25 Digital Radios/Narrowband Radios Encrypted Radios/OTAR 		<ul style="list-style-type: none"> 335929 Size Standard	Other Communication and Energy Wire Manufacturing \$ - None / 1000 Employees
<ul style="list-style-type: none"> Land Mobile Radios (LMR) P25 Digital Radios Subscriber radios and cabling Subscriber Equipment 		<ul style="list-style-type: none"> 811213 335929 517919 	Communication Equipment Repair & Maintenance Other Communication and Energy Wire Manufacturing All Other Telecommunications
MAJOR PAST PERFORMANCES		REFERENCES	
<ul style="list-style-type: none"> NIFC center has a cache of over 6,000 BK radios in place for incident command teams for fighting forest fires, natural disasters, or national incidents. Department of Interior Digital Narrowband Radio APCOP25 ID/IQ Firm Fixed / current supplier since 2010 		DOI/National Interagency Fire Center (NIFC) Brandon Diemer Electronics Engineer/Spectrum Management Supervisor National Interagency Fire Center 3833 S. Development Ave. Boise, ID 83705 Phone: 208-387-5881 Email: bdiemer@blm.gov	
<ul style="list-style-type: none"> FEDSIM - USDA Forest Service Narrowband APCO P25 Radios Firm Fixed Price February 2010 purchased \$6.4 Million variety of our Two-Way Equipment / APCOP25 		DOI/USDA-USFS Michael S. DeSouto US Forest Service 5162 Valleypointe Roanoke, VA 24109 Phone: 540-265-5171 Office Email: mdesouto@fs.fed.us	



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
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State of West Virginia
Centralized Request for Quote
Audio/Video

Proc Folder: 1648331

Doc Description: PORTABLE RADIOS & ACCESSORIES

Reason for Modification:

Addendum No. 1 to publish
answers to vendor questions.
Please see attachment

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2025-03-27	2025-04-10 13:30	CRFQ 0305 FOR2500000003	2

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000217699

Vendor Name : BK Technologies, Inc.

Address :

Street : 7100 Technology Drive

City : West Melbourne

State : FL

Country : USA

Zip : 32904

Principal Contact : Carolyn French, Contract Administrator

Vendor Contact Phone: 321-237-1306

Extension:

FOR INFORMATION CONTACT THE BUYER

Brandon L Barr
304-558-2652
brandon.l.barr@wv.gov

**Vendor
Signature X**

FEIN# 59-3486297

DATE 04/08/2025

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION
The West Virginia Purchasing Division on behalf of the Agency, The WV Division of Forestry is soliciting bids from qualified vendors to establish a contract for PORTABLE RADIOS & ACCESSORIES as described per the Specifications, Terms & Conditions and bid requirements as attached.

INVOICE TO	SHIP TO
FORESTRY DIVISION OF 7 PLAYERS CLUB DRIVE DIVISION OF FORESTRY CHARLESTON WV US	FORESTRY DIVISION OF 1ST FLOOR 7 PLAYERS CLUB DR CHARLESTON WV US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	VEHICLE RADIOS & ACCESSORIES	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
43191510			

Extended Description:
Refer to Exhibit A

SCHEDULE OF EVENTS		
<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Questions due by March 27th, 2025 at 10:00am ET	2025-03-27

SOLICITATION NUMBER: CRFQ 0305 FOR2500000003

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☐ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ Attachment of vendor questions and responses
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Description of Modification to Solicitation:

1. To publish answers to vendor questions.

---No other changes---

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

CRFQ FOR2500000001

PORTABLE RADIOS & ACCESSORIES

- 1. The contract has an initial term of 1 year, with the possibility of 3 one-year renewals. Article 13 of the Terms & Conditions states the pricing is good for the life of the contract. Will we be able to adjust pricing after the initial term and each renewal term?**

A. No. The pricing submitted with the vendor's bid will be fixed firm pricing for the entirety of the contract.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ 0305 FOR25*3

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

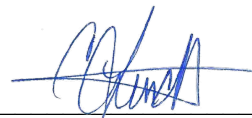
Addendum Numbers Received:

(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input type="checkbox"/> Addendum No. 2	<input type="checkbox"/> Addendum No. 7
<input type="checkbox"/> Addendum No. 3	<input type="checkbox"/> Addendum No. 8
<input type="checkbox"/> Addendum No. 4	<input type="checkbox"/> Addendum No. 9
<input type="checkbox"/> Addendum No. 5	<input type="checkbox"/> Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

BK Technologies, Inc.



Company

Carolyn French
Contract Administrator

Authorized Signature

04/08/2025

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

Revised 6/8/2012



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Audio/Video

Proc Folder: 1648331

Doc Description: PORTABLE RADIOS & ACCESSORIES

Reason for Modification:

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answers to vendor questions.
Please see attachment

Proc Type: Central Master Agreement

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FOR INFORMATION CONTACT THE BUYER

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FORESTRY DIVISION OF 7 PLAYERS CLUB DRIVE DIVISION OF FORESTRY CHARLESTON WV US	FORESTRY DIVISION OF 1ST FLOOR 7 PLAYERS CLUB DR CHARLESTON WV US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	VEHICLE RADIOS & ACCESSORIES	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
43191510			

Extended Description:
Refer to Exhibit A

SCHEDULE OF EVENTS		
<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Questions due by March 27th, 2025 at 10:00am ET	2025-03-27

	Document Phase	Document Description	Page 3
FOR2500000003	Final	PORTABLE RADIOS & ACCESSORIES	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Request for Quote
Audio/Video

Proc Folder: 1648331			Reason for Modification:
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
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Comm Code	Manufacturer	Specification	Model #
43191510			

Extended Description:
Refer to Exhibit A

SCHEDULE OF EVENTS		
<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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	Document Phase	Document Description	Page 3
FOR2500000003	Final	PORTABLE RADIOS & ACCESSORIES	

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EXHIBIT A – Pricing Page
CRQM 0305 FOR2500000001
PORTABLE RADIOS AND ACCESSORIES

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3.1.2	Lithium-Ion Batteries	BKR0102	EA	300	\$191.10	\$ 57,330.00
3.1.3	Programming cables, BK Technologies Programming Cables, or equal	BKR0710	EA	12	\$111.30	\$1,335.60 -
3.1.4	Hi Temperature Remote Speaker Microphone	BKR0206	EA	150	\$290.50	\$43,575.00 -
3.1.5	Portable Radio Travel Charger	BKR0355	EA	125	\$244.30	\$30,537.50 -
3.1.1.7.17	BKRangeMax™ Antenna, Portable, VHF,136-174 MHz, 1/4 wave, whip 20", built-in GPS Antenna, Orange or Equal	BKR0813	EA	150	\$67.20	\$ 10,080.00 -
3.1.1.7.18	Clamshell AA Battery Pack, Orange	BKR0122	EA	300	\$114.10	\$34,230.00 -
					TOTAL	\$ 1,548,598.10

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Email Address:	cfrench@bktechnologies.com / contracts@bktechnologies.com



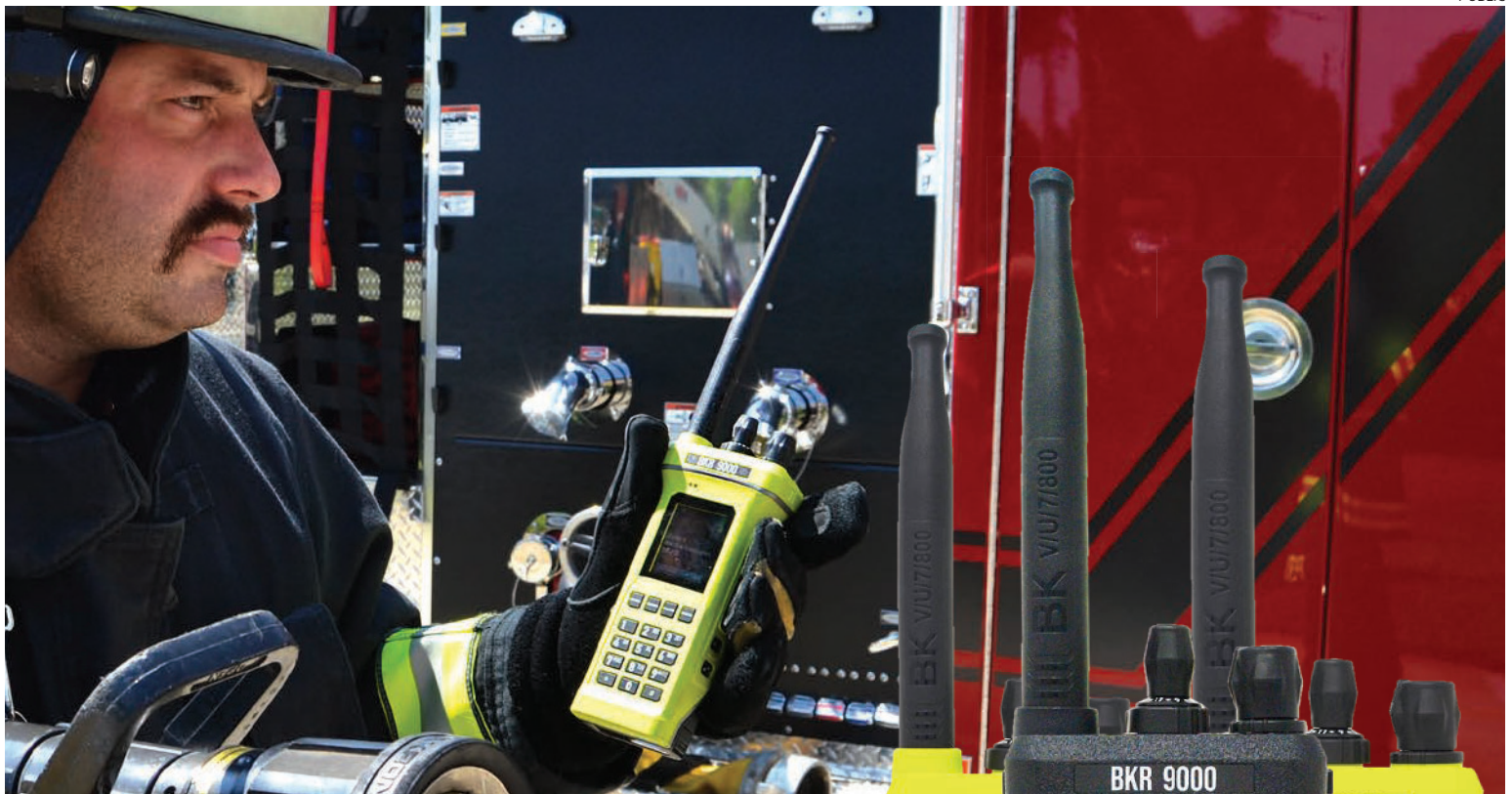
Vendor Signature:

04/08/2025

Date:

Please note: WV SIRN is requiring Link Layer Authentication by July 2025. See OPTIONS below - WV SIRN required Link Layer Authentication by July 2025

Qty.	Part #	Description	Price Each	Total Price
150	BKR5780	Radio Authentication (At time of purchase)	\$100.80	\$15,120.00
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BK[®]
TECHNOLOGIES



BKR 9000

BKR Series Multi-Band Radio



bktechnologies.com f @ in X v

Designed to Meet the Demanding Needs of First Responders

Key Features

- Single, Dual, Multi-Band Operation (VHF, UHF, 700/800 MHz)
- Wi-Fi, GPS, Bluetooth
- P25 Conventional and Trunking (Phase 1 and 2)
- FIPS 140-2 Level 3 Validated AES Encryption (with OTAR) Capable
- USB & Field Programmable (Up to 5,000 Channels)
- IP64 Compliant, Mil Spec 810 C, D, E, F, G
- IP68 Submersible Optional
- 5-Year Standard Warranty



TIER 1.0

Uncompromising, high specification performance multi-band capability for the user who needs performance, but not all the bells and whistles.



TIER 1.5

Addition of Top Display, providing quick access to radio information and status.



TIER 2.5

Top Display, plus full color front bitmap display with four user programmable keys.



TIER 3.5

Top Display, full color front display, plus full alphanumeric keypad. Available with standard 16-channel selector, or optional continuous rotating channel selector.

High Visibility Yellow available in tiers 2.5, 3.5

Advanced Features



A photograph of three firefighters in full protective gear running away from the camera down a wet city street at night. The wet pavement reflects the bright orange and yellow lights of a fire or emergency scene in the distance. The background is dark and hazy with some smoke or steam.

Mission-Critical Ready
Hero Tough™

For more information visit
BKTechnologies.com



800-821-2900
sales@bktechnologies.com
7100 Technology Drive
West Melbourne, FL 32904

bktechnologies.com     

BKR 9000 P25 PORTABLE RADIO SPECIFICATION SHEET



PUBLIC SAFETY COMMUNICATIONS

The BKR 9000 all-band portable radio offers exceptional performance in a lightweight form, incorporating industry-leading RF and electrical specifications in a rugged, submersible housing.

- ✓ **5-year standard warranty**
- ✓ Single, dual, multiband operation (VHF, UHF, 700/800 MHz)
- ✓ P25 Conventional and Trunking (Phase 1 & 2)
- ✓ IP64* compliant, MIL SPEC 810 C, D, E, F, G
- ✓ *IP68 optional
- ✓ Wi-Fi, GPS/GNSS, Bluetooth
- ✓ FIPS 140-2 level 3 validated AES encryption (with OTAR) capable
- ✓ USB & field programmable (up to 5,000 channels)
- ✓ Multi-mic Adaptive Noise Suppression w/ AGC and auto-microphone detection algorithms

BKR 9000 P25 PORTABLE RADIO



Color Display	Front display - 240 by 320 QVGA full color display Top display - 128 by 80 high resolution 1.2" black on white FSTN monochrome LCD. Durable <i>Gorilla Glass®</i> protection
Keypad	Back-lit with 4 customizable embedded soft-keys
Channel Capacity Memory	5000
Buttons and Switches	Oversized PTT, on/off volume control, orange emergency button, 16 position rotary switch, 4 position concentric zone switch, 3 programmable side buttons, programmable 2 position collar switch

Key Benefits

- **EXCEPTIONAL BATTERY LIFE UTILIZING INDUSTRY-LEADING FUEL GAUGE TECHNOLOGY**
Exceeds *12 hour talk time (*5/5/90 duty cycle)
- **INDUSTRY-LEADING RF PERFORMANCE**
Transmit and receive signaling with crystal clear, loud sound quality across all bands
- **ERGONOMIC SURE GRIP**
Textured housing surrounds *BK Hero ArmorSM*
- **MULTI-KEY/MULTI-ALGORITHM ENCRYPTION**
The BKR 9000 supports ADP, AES, DES, DES-XL, DES-OFB encryption and is compatible with Motorola's ADP
- **OTAR P25 OVER-THE-AIR REKEY**
Allows the encryption key to be changed wirelessly on P25 conventional and P25 trunking systems
- **INTERNAL BLUETOOTH HARDWARE**
BK Technologies Bluetooth is an optional feature for wireless accessory connectivity

Certifications

Federal Communications Commission Industry Canada	ID: K5BKR9000-2 ID: 2116A-BKR9000-2
FCC Emission Designators	LMR: 8K10F1D, 8K10F1E, 8K10F1W, 11K0F3E, 16K0F3E BLUETOOTH: 808KF1D, 1M02F1D, 1M16F1D, 1M17F1D Wi-Fi: 14M8G1D, 18M9D1D, 19M1D1D, 19M7D1D, 20M1D1D, 36M5D1D

Receiver Typical Performance Specifications

	700	800	VHF	UHF
Frequency Range	762-776 MHz*	851-869 MHz*	136-174 MHz	380-520 MHz
Channel Spacing	25/12.5 kHz	25/12.5 kHz	25/12.5 kHz	25/12.5 kHz
Audio Output Power (rated)	3 Watts	3 Watts	3 Watts	3 Watts
Frequency Stability (-30C to +60C)	0.5 ppm	0.5 ppm	0.5 ppm	0.5 ppm
Analog Sensitivity (12db SINAD)	-121.5 dBm (0.188 uV)	-121.5 dBm (0.188 uV)	-124.5 dBm (0.133 uV)	-121.5 (0.188 uV)
Digital Sensitivity (5% BER)	-121.5 dBm (0.188 uV)	-121.5 dBm (0.188 uV)	-124.5 dBm (0.133 uV)	-121.5dBm (0.188 uV)
Selectivity (25/12.5 kHz)	76/72dB	77/73 dB	83/77 dB	81/77 dB
Intermodulation Rejection	78 dB	77 dB	85 dB	81 dB
Spurious Rejection	>100 dB	>100 dB	> 98 dB	> 98 dB
FM Hum & Noise (25/12.5 kHz)	- 57 dB/-54 dB	- 57 dB/-53 dB	-59 dB/-55 dB	-59 dB/-55 dB
Receiver Audio Distortion	1.20%	1.20%	1.20%	1.20%

Transmitter Typical Performance Specifications

	700	800	VHF	UHF Range 1	UHF Range 2
Frequency Range	768-776 MHz* 798-806 MHz*	806-824 MHz* 851-869 MHz*	136-174 MHz	380-470 MHz	450-520 MHz
Channel Spacing	25/12.5 kHz	25/12.5 kHz	25/12.5 kHz	25/12.5 kHz	25/12.5 kHz
RF Output Power LP/HP	1, 3 Watts	1, 3 Watts	1, 6 Watts	1, 5 Watts	1, 5 Watts
Frequency Stability (-30 to +60 C)	0.5 ppm	0.5 ppm	0.5 ppm	0.5 ppm	0.5 ppm
Modulation Limiting	5 / 2.5 kHz	5 / 2.5 kHz	5 / 2.5 kHz	5 / 2.5 kHz	5 / 2.5 kHz
Emissions (Conducted Radiated)	-78 dBc	-78 dBc	-78 dBc	-78 dBc	-78 dBc
Audio Response	+1, -3dB	+1, -3dB	+1, -3dB	+1, -3dB	+1, -3dB
FM Hum and Noise (25/12.5 kHz)	-54/-47 dB	-54/-52 dB	-74/-66 dB	-63/-57 dB	-48/-45 dB
Audio Distortion	0.10%	0.10%	0.10%	0.10%	0.10%

** includes Canadian bands*

BKR 9000 Portable Military Standards 810 C, D, E, F & G

	MIL-STD 810C		MIL-STD 810D	
	Method	Proc./Cat	Method	Proc./Cat
Low Pressure	500.1	I	500.2	II
High Temperature	501.1	I,II	501.2	I/A1, II/A1
Low Temperature	502.1	I	502.2	I/C3, II/C1
Temperature Shock	503.1	I	503.2	I/A1, C3
Solar Radiation	505.1	II	505.2	I
Rain	506.1	I,II	506.2	I, II
Humidity	507.1	II	507.2	II
Salt Fog	509.1	I	509.2	I
Blowing Dust	510.1	I	510.2	I
Explosive Atmosphere				
Blowing Sand	1 Proc	1 Proc	510.2	II
Submersion	512.1	I	512.2	I
Vibration	514.2	VIII/F CURVE-W	514.3	I/10, II/3
Shock	516.2	I, III, V	516.3	I,V,VI
Shock (Drop)	516.2	II	516.3	IV

	MIL-STD 810E		MIL-STD 810F		MIL-STD 810G	
	Method	Proc./Cat	Method	Proc./Cat	Method	Proc./Cat
Low Pressure	500.3	II	500.4	II	500.5	II
High Temperature	501.3	I/A1, II/A1	501.4	I/HOT, II/HOT	501.5	I/A1, II/A1
Low Temperature	502.3	I/C3, II/C1	502.4	I/C3, II/C1	502.5	I/C3, II/C1
Temperature Shock	503.3	I/A1, C3	503.4	I/A1, C3	503.5	I/C
Solar Radiation	505.3	I	505.4	I	505.5	I/A1
Rain	506.3	I, II	506.4	I, II	506.5	I, III
Humidity	507.3	II	507.4	1 PROC	507.5	II/AGGRAVATED
Salt Fog	509.3	I	509.4	1 PROC	509.5	1 PROC
Blowing Dust	510.3	I	510.4	I	510.5	I
Explosive Atmosphere			511.4	I	511.5	I
Blowing Sand	510.3	II	510.4	II	510.5	II
Submersion	512.3	I	512.4	I	512.5	I
Vibration	514.4	I/10, II/3	514.5	I/24	514.6	I/24
Shock	516.4	I,V,VI	516.5	I,V,VI	516.6	I,V,VI
Shock (Drop)	516.4	IV	516.5	IV	516.6	IV

GPS/GNSS

Constellations	GPS + Galileo + GLONASS + SBAS
Cold Start	< 35 seconds*
Hot Start	< 1 second*
Tracking Sensitivity	-166 dBm
Accuracy	< 2.5 meters*

**Measured conductively, > 6 SVs, -130dBm, CEP 95%*

Wireless Connectivity

Bluetooth	Dual-mode Bluetooth 5.1 (BR/EDR and BLE) Secure Connection Compliant (128-bit encryption). Up to 7 BR/EDR active devices and 10 simultaneous BLE connections are supported.
Wi-Fi	802.11 a/b/g/n dual-band, 2.4-GHz and 5-GHz (20 and 40 MHz SISO). Networking Security (WPA2, WPA, WEP), FIPS 140-2 Level 1. Supports pre-provisioning with multiple SSIDs.

Encryption

Supported Algorithms	ADP, AES, DES, DES-XL, DES-OFB	<i>ADP, DES-XL are registered trademarks of Motorola Solutions, Inc.</i>
Encryption Keys	Programmable for 128 CKR and 16 PID	
Frame Re-sync Interval	P25 CAI 360 msec.	
Keyloading	Keyloader and P25 OTAR	
Synchronizations	XL counter addressing and OFB output feedback	<i>XL is a registered trademark of Motorola Solutions, Inc.</i>
Vector Generator	NIST approved random number generator	
Type	Digital and Securenet	<i>Securenets is a registered trademark of Motorola Solutions, Inc.</i>
Key Storage	FIPS140-2 Level 4 tamper protected non-volatile memory	
Key Erasures	User command, tamper, P25 OTAR	
Standards	FIPS140-2 Level 3, FIPS197	

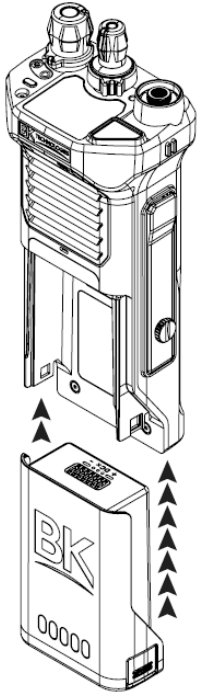
Dimensions (including the 4900mAh Standard Battery)

	Metric (mm.)	Imperial (in.)
Length	165	6.5
Width: Push to Talk Button	62.5	2.5
Depth: Push to Talk Button	39.6	1.6
Width top	76	3
Depth top	53.7	2.1
Depth bottom of battery	43	1.7
Weight	603.8 g	21.3 oz
Weight (<i>without battery</i>)	409.8 g	14.5 oz

Batteries

	Std or Opt	Dimension (HxWxD)	Weight	Capacity
Li-Ion Smart 4900 mAh	std	3.4" x 2.4" x 1.0"	6.8 oz	4900 mAh
AA Clamshell	opt	6.2" x 2.4" x 2.3" (est.)	18.3 oz (est.)	12 AA Batteries

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



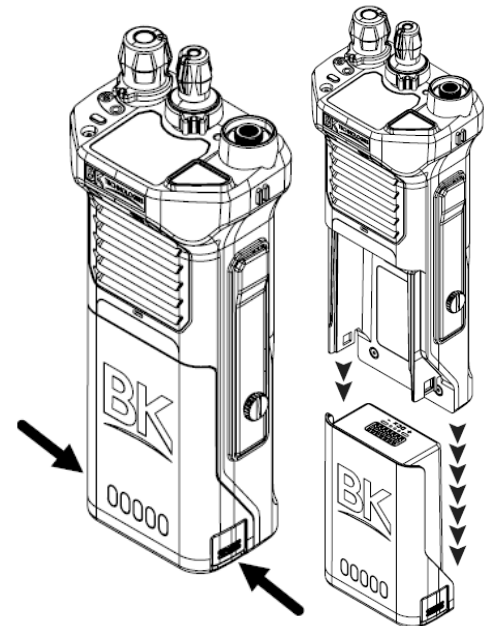
Installing the Battery:

1. Turn the volume knob to the off position.
2. Align the battery with the radio as shown.
3. Push the battery upwards into the radio until 'release' tabs "click" into place.

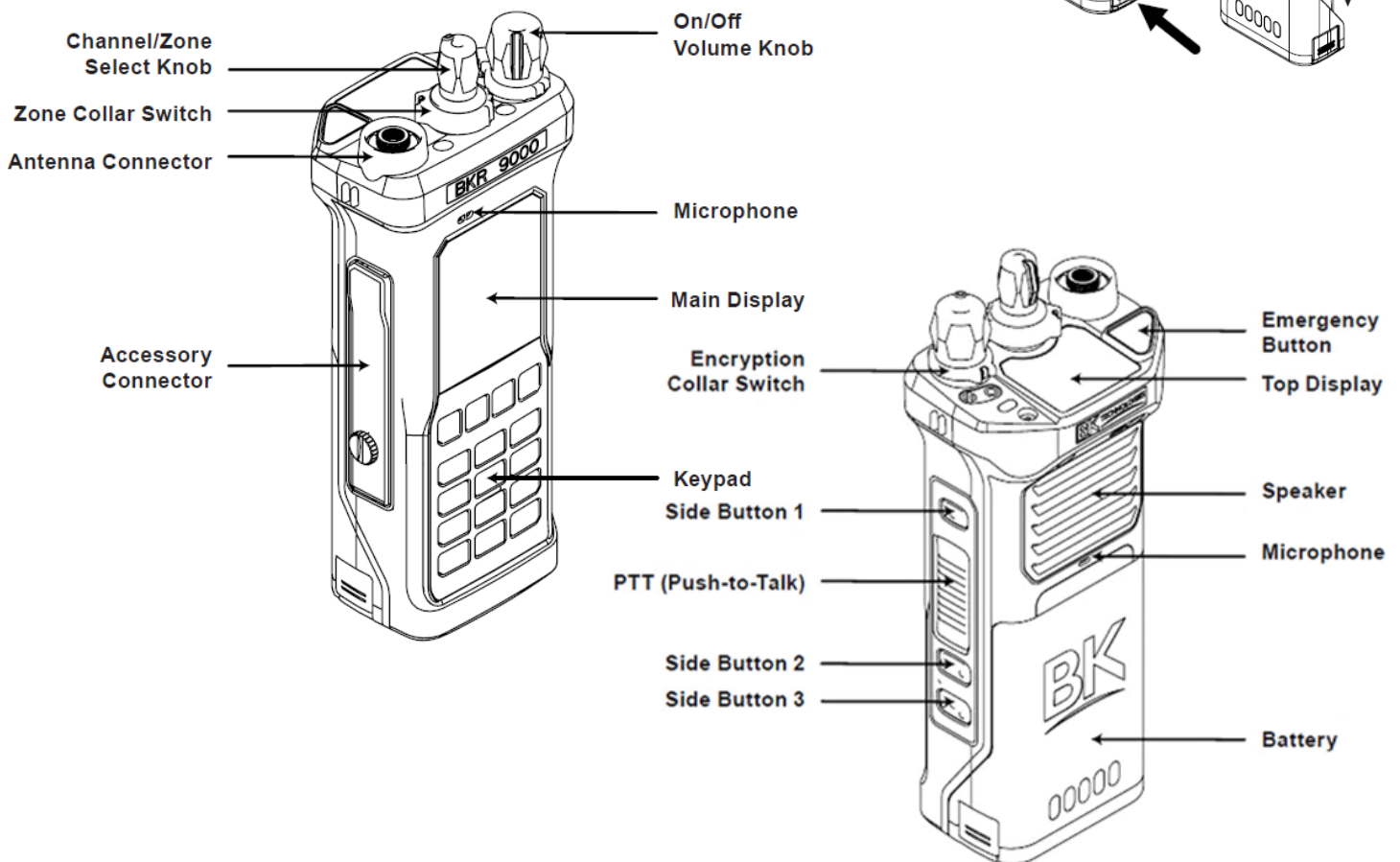
Removing the Battery:

1. Push in the release tabs on each side of the battery.
2. Pull the battery downwards away from the radio.

NOTE: All information programmed into the radio is maintained even when the battery pack is removed.



Radio Controls





UNDERSTANDING **SURPASS™** TECHNOLOGY

PUBLIC RELEASE AUTHORIZED

EXCELLENT SHELF LIFE • SEAMLESS AND TRANSPARENT TO THE END USER
SELF-CALIBRATING AND MAINTAINING • IMPROVED BATTERY DATA REPORTING ACCURACY

Our **SURPASS™** (*Smart Unique Regulation and Product Authentication System Suite*) technology **includes** an intelligent energy system* that leverages the battery's self-contained Battery Management System, continuously monitoring performance and optimizing battery life through self-calibration and cell balancing.

THE BKR0303-2 CHARGER:

ENERGY MONITORING: Makes real-time inquiry of Battery Data.

- Improved Charge Accuracy
- Improved LED Accuracy (State of Charge <95%, 95-100%)
- End of Service Life indicator based on Age / Health
- Authentication of authorized batteries



THE BKR0102 BATTERY:

The BKR0102 is best in class regarding "Standloss": Increased battery shelf life and the time required between charges.

The BKR0102 has advanced diagnostics capabilities that continuously monitors and analyzes battery performance which enables the BK BKR0303-2 Dual Unit Charger to alert the user when it is time to replace the battery.

The BKR0102's fuel gauge continuously self-calibrates to maintain its accuracy hour-to-hour, day-to-day, and month-to-month without expending battery charge cycles and/or adding time for the "fuel gauge" maintenance.

- Battery information available to both radio and charger.
- Real Time Clock (for event tracking)
- Tracks Minimum and Maximum battery: cell voltage, current and temperature.
- State of Health
- Age
- Age Forecast (remaining cycles of usable life)
- Capacity
- State of Charger
- Time to Empty
- Time to Full Charge
- Four Dynamic power and current indicators based on the state of charge (SOC), temperature and radio current draw to estimates.
 - Peak and sustainable power
 - Peak and sustainable current
- Continuous self calibration: during charging, discharging and storage/rest.
- Continuous cell balancing to extend battery life: during charging, discharging and storage/rest.



*battery and charger