

**WHATCOM COUNTY
PUBLIC WORKS DEPARTMENT**



Elizabeth Kosa
Public Works Director

EQUIPMENT SERVICES DIVISION
901 W. Smith Road
Bellingham, WA 98226-9610
Phone (360) 778-6400
Fax (360) 778-6401
Garrett Reynolds, Superintendent

MEMORANDUM

To: The Honorable Satpal Singh Sidhu, County Executive; and
The Honorable Members of the Whatcom County Council

Through: Randy Rydel, Finance Director

From: Elizabeth Kosa, Public Works Director
Brett Piepel, Public Works Equipment Services Assistant Superintendent

Prepared By: Kyle DeVries, Purchasing / Stores Lead

Date: May 2, 2025

Re: Approval to Purchase Radios for Fleet Vehicles

Requested Action

The Public Works Equipment Services Division requests County Council and County Executive approval to purchase Kenwood VHF, UHF, 800 MHz radios, and related parts as needed from the Washington State Contract #00318 (Public Safety Communication Products, Services & Solutions) through 12/31/2026. The current state contract term is for the period of 07/01/2021 through 12/31/2026.

The state contract is awarded to multiple manufacturers, including JVC Kenwood. Purchases will be made through Communication Northwest, a local authorized dealer for JVC Kenwood. Expenditures for these radios through Washington State Contract #00318 will not exceed \$100,000.00 per year.

Background and Purpose

The Sheriff's Office and Public Works Maintenance and Operations Division use these radios for their day to day operations in both in vehicle application and portable radios. The current radios used in vehicles are obsolete and are not in serviceable condition to be installed in new vehicles. Whatcom County Equipment Services will be upfitting approximately 20 new vehicles for the Sheriff's Office (attached Quote #QU13104; estimated cost per vehicle is \$3,792.28), and up to 10 new vehicles for the Maintenance and Operations Division in 2024 (attached Quote #QU13103; estimated cost per vehicle is \$838.16) as well as radio replacements for outdated or non-serviceable radios. Equipment Services may also may purchase 800 MHz radios (attached Quote #QU13105; estimated cost per vehicle is \$2,079.67) or replacement components for vehicles that already have this system. Once installed, Communications Northwest will program the radios. This cost is included in the estimated amounts.

Funding Amount and Source

These are regularly budgeted expenditures and funds exist in the current Equipment Services budget in the ER&R Fund.

Contact

Please contact Kyle DeVries at 6408 if you have any questions or concerns.

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EQUIPMENT SERVICES DIVISION

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Bellingham, WA 98226-9610

Phone (360) 778-6400

Fax (360) 778-6401

Garrett Reynolds, Superintendent

Recommendation

In accordance with WCC 3.08.030, I concur with this recommendation:

Digitally signed by Sara Winger
DN: cn=Sara Winger, o=Whatcom County AS Finance,
ou=Senior Purchasing Coordinator,
email=swinger@co.whatcom.wa.us, c=US
Date: 2025.05.05 09:16:33 -07'00
Adobe Acrobat version: 2020.005.30763

Sara Winger

Sara Winger, Senior Purchasing Coordinator

Approved as recommended:

County Executive

Date of Council Action



Communications Northwest
624 McLoughlin Blvd.
Oregon City OR 97045
United States

www.commnw.com

WCSO Patrol Vehicles
WSC Due diligence review; OK SW 05/02/2025

Quote

Quote #QU13104

Date:4/21/2025

This Quote Expires On: 6/21/2025

Bill To	Ship To
WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States	WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States

Sales Rep	Terms	PO Number
Steve E Watson	Net 30	

Item	Description	Quantity	Price	Total	
Notes	***** Patrol Radio Package - UHF and VHF - No antenna parts needed				
NX-5700BK	VHF (50W, 136-174 MHz) RF Deck Only	1	\$877.00	\$877.00	✓SW
KWD-5100CV	License Key for P25 Conventional	1	\$621.00	\$621.00	✓SW
NX-5800BK2	UHF (45W, 380-470 MHz) RF Deck Only	1	\$877.00	\$877.00	✓SW
KWD-5100CV	License Key for P25 Conventional	1	\$621.00	\$621.00	✓SW
5AFMM-MR	KMC-65M, KCH-20RM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A (x2), KAP-2(x2)	1	\$1,407.60	\$1,407.60	✓SW
KES-8K	External speaker, 10W, 4-Ohm, 3.5mm phone plug ** Sub out the KES-5A in the kits and replace with KES-8A, Customer installs 2 speakers per car, one to each radio.	2	\$59.30	\$118.60	✓SW
Subtotal				\$4,522.20	
Discount - NASPO	NASPO - 00318		-30%	(\$1,356.66)	
L-5032	Factory Assembly & Factory Packing for Single Head / Dual Deck / Ext. Speakers	1	\$150.00	\$150.00	✓SW



Communications Northwest
624 McLoughlin Blvd.
Oregon City OR 97045
United States

www.commnw.com

Quote

Quote #QU13104

Date:4/21/2025

This Quote Expires On: 6/21/2025

Item	Description	Quantity	Price	Total
313 - INITIAL RADIO PROGRAMMING	CUSTOMER FILE: Y / N NEW CODE PLUG NEEDED: Y / N CUSTOMER TO PROGRAM: Y / N FEATURE/LICENSE/KEY/ENTITLEMENT ENTERED BY: PROGRAMMING LOCATION: FILE USED: FIRMWARE FILE USED: DATE PROGRAMMED: PROGRAMMERS INITIALS: MOU NEEDED: Y / N (ATTACH PROOF AS A FILE)	2	\$35.00	\$70.00
Shipping	Shipping and Handling - this is per unit shipping and will be adjusted based on quantity of equipment ordered.	1	\$100.00	\$100.00
Tariff Note	This order may be subject to applicable tariffs. Tariff rates are determined by current international trade regulations and are subject to change, which may affect final pricing.			

Subtotal \$3,485.54

Tax Total (%) \$306.74

Total \$3,792.28

<https://www.commnw.com/wp-content/uploads/2021/11/Terms-and-Conditions.pdf>

A 3% credit card fee will be applied to all credit card transactions.



NX-5700/5800/5900

Table of Contents

VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios



NX-5000(K-version*) Mobiles include:

- Basic Control Head (KCH-19M)
- Standard Microphone (KMC-65M)
- Mounting Bracket (KMB-33M)
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

*K-version comes with a RF deck only
1. Multi-Digital Protocol can be used for two(2) of the three(3) Digital Protocols set by programming software. P25/DMR Digital Protocols are options.

2. Requires L-5023 DB25 Cable between Decks.

STANDARD

■ GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (380-470, 450-520 MHz) Models
- 35 W (700/800 MHz) Models
- 1024 CH-GID / 128 Zones
- Full Color 2.55" (154 x 422 pixels) TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warm LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- Multi Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption (4 keys programmable by KPG-D1(N)K)
- Mobile Relay Station² (DMR Mode³)
- Cross Band Repeater (Only)
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55

■ DIGITAL – P25 MODE

- P25 Conventional Option
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Conventional Voting Scan Option
- Packet Data Option for P25 OTAR & GPS
- Text Data
- Radio Authentication
- Tone Paging

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking (except 700MHz)
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming (requires KPG-180AP OTAP Manager Software)
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Optional
- Site Roaming

■ ANALOG MODE

- Conventional Zones
- LTR® Zones
- FleetSync®/II: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
- MDC-1200: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
- QT / DQT
- Two-Tone (Conventional Zones Only)
- DTMF
- Built-in Voice Inversion Scrambler

■ Multi-Deck Compatible Models & Modes

Models	Bands	Power	Operable Modes
NX-5600H	Lowband VHF (39-50)	110 Watts	Analog/NXDN
NX-5700	VHF (136-174)	50 Watts	Analog/NXDN/DMR/P25
NX-5700H	VHF (136-174)	110 Watts	Analog/NXDN/P25
NX-5800H	UHF (380-470, 450-520)	100 Watts	Analog/NXDN/P25
NX-5800	UHF (380-470, 450-520)	50 Watts	Analog/NXDN/DMR/P25
NX-5900	7/800	35 Watts	Analog/NXDN/DMR/P25

OPTIONAL FEATURES & CONFIGURATIONS

■ GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control by Subscriber Units (KWD-5007RC)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR)
- Conventional OTAR (KWD-5103RK)
- Trunking OTAR (KWD-5103RK & 5106DT)
- Conventional Voting Scan (KWD-5105VT)
- Packet Data required for Trunked OTAR/GPS (KWD-5106DT)
- P25 ARC4 Encryption (KWD-5107EE)
- Link Layer Authentication (KWD-5100CV & KWD-5101TR & KWD-AE3x Encryption Board Required)

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Features (KWD-5300CV)
- DMR Tier 3 Trunking Features (KWD-5300CV & KWD-5301TR)

■ MOUNTING & REMOTE CONFIGURATIONS

(See NX-5000 Accessory page for details)

- KCH-20R Featured Control Head
- KCH-21R Handheld Control Head
- Single Remote Control Head (KRK Kit & KCT-71 or KCT-77 Cable required)
- Dual Remote Control Heads (KCH-19/20R/21R & KRK Kit & KCT-71 or KCT-77 Cables required)
- Multiple RF Decks (KRK Kit & KCT-71 or KCT-77 Control Cable + KWD-5004MR License Key Activation required*)



RADIO

LIST NASPO
DISCOUNT 30%



NX-5700/5800/5900

VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios

[Table of Contents](#)

RF Deck Only

LIST

NASPO
DISCOUNT 30%

MUST purchase necessary accessories separately

NX-5700BK	VHF (50W, 136-174 MHz) <u>RF Deck Only</u>	877.00	613.90
NX-5800BK2	UHF (45W, 380-470 MHz) <u>RF Deck Only</u>	877.00	613.90

SOFTWARE LICENSING & RADIO FEATURE OPTIONS

General Radio Features

LIST

NASPO
DISCOUNT 30%

P25 Radio Features

LIST

NASPO
DISCOUNT 30%

KWD-5100CV	License Key for P25 Conventional	621.00	434.70
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DMR Features

LIST

Other Accessories, Software, and Services



NX-5000 Series Mobile Accessories

Table of Contents

MICROPHONES AND SPEAKERS		LIST	NASPO DISCOUNT 30%
KES-8K	External speaker, 10W, 4-Ohm, 3.5mm phone plug	59.30	41.51
DC POWER CABLES		LIST	NASPO DISCOUNT 30%
MOUNTING BRACKETS		LIST	NASPO DISCOUNT 30%
CONTROL HEADS		LIST	NASPO DISCOUNT 30%
CONTROL HEAD REMOTE KIT (for Mid Power Mobiles)		LIST	NASPO DISCOUNT 30%
REMOTE & MULTI RF DECK CABLES		LIST	NASPO DISCOUNT 30%
OTHER ACCESSORIES			NASPO DISCOUNT 30%
RADIO FEATURE LICENSE OPTIONS			
ENCRYPTION MODULES		LIST	NASPO DISCOUNT 30%
REMOTE & MULTI-RF DECK CONFIGURATIONS			
CONVENIENT REMOTE & MULTI-RF DECK ACCESSORY KITS			
MID POWER / Remote Kit - Single Head / Single RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Dual Head / Single RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Single Head / Dual RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Single Head / Dual RF Deck, External Speakers per deck		LIST	NASPO DISCOUNT 30%
5AFMM-MR		1407.60	985.32
	KMC-65M, KCH-20RM, KRK-15BM(x2), KCT-71M2, KCT-71M4, KCT-23M3(x2), KMB-33M(x2), KES-5A(x2), KAP-2(x2)		
MID POWER / Remote Kit - Dual Head / Dual RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Dual Head / Dual RF Deck, External Speakers per deck		LIST	NASPO DISCOUNT 30%



NX-5000 Series Mobile Accessories

Table of Contents

<i>HIGH POWER / Single Head Remote Mount Kit</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>HIGH POWER / Single Remote Mount / Dual High Power RF Deck</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>HIGH POWER / Single Deck Dual Head Remote Mount</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>REMOTE & MULTI-RF DECK ASSEMBLY LABORS</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
L-5032	Factory Assembly & Factory Packing for Single Head / Dual Deck / Ext. Speakers	150.00	
<i>INSTALLATION / TUNING SERVICES</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>SOFTWARE LICENSING & RADIO FEATURE OPTIONS</i>			
<i>SERVICE RELATED ACCESSORIES</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>FleetSync® & NEXEDGE® AVL & MESSAGING</i>		<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>



Communications Northwest
624 McLoughlin Blvd.
Oregon City OR 97045
United States

www.commnw.com

M&O Vehicles

WSC Due diligence review; OK SW 05/02/2025

Quote

Quote #QU13103

Date:4/21/2025

This Quote Expires On: 6/21/2025

Bill To	Ship To
WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States	WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States

Sales Rep	Terms	PO Number
Steve E Watson	Net 30	

Item	Description	Quantity	Price	Total
Notes	***** WCPW M & O Radios *****			
NX-3720HGK	VHF (136-174MHz), 50 Watts, 512 CH, 128 Zones	1	\$831.20	\$831.20
Discount - NASPO	NASPO - 00318		-30%	(\$249.36)
AVWB-SM-39-68	ANT WIDEBAND/SPRING 139-168MHz	1	\$76.07	\$76.07
SAB-181	NMO LOW FREQUENCY ADAPTOR ASSY	1	\$11.16	\$11.16
MNMOM-5F	MNMO BASE 5.25m(17') COAX FME(f)	1	\$23.71	\$23.71
CA-PLP-FP	PL259(m)-FME(m) ADAPTOR	1	\$7.57	\$7.57
313 - INITIAL RADIO PROGRAMMING	CUSTOMER FILE: Y / N NEW CODE PLUG NEEDED: Y / N CUSTOMER TO PROGRAM: Y / N FEATURE/LICENSE/KEY/ENTITLEMENT ENTERED BY: PROGRAMMING LOCATION: FILE USED: FIRMWARE FILE USED: DATE PROGRAMMED: PROGRAMMERS INITIALS: MOU NEEDED: Y / N (ATTACH PROOF AS A FILE)	1	\$35.00	\$35.00
Shipping	Shipping and Handling - This is per unit pricing for shipping and will be adjusted accordingly with quantity of items purchased.	1	\$35.00	\$35.00
Tariff Note	This order may be subject to applicable tariffs. Tariff rates are determined by current international trade regulations and are subject to change, which may affect final pricing.			

✓SW



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624 McLoughlin Blvd.
Oregon City OR 97045
United States

www.commnw.com

Quote

Quote #QU13103

Date:4/21/2025

This Quote Expires On: 6/21/2025

Subtotal	\$770.35
Tax Total (%)	\$67.81
Total	\$838.16

<https://www.commnw.com/wp-content/uploads/2021/11/Terms-and-Conditions.pdf>

A 3% credit card fee will be applied to all credit card transactions.



NX-3720HG/3820HG

VHF/UHF Digital & FM Analog Mobile Radios

Table of Contents



All NX-3000 Series Mobiles include:

- Standard Microphone (KMC-65M)
- Mounting Bracket
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

Because of spurious signal (birdie), the following frequencies (and $\pm 7.5\text{kHz}$ ranges) are not allowed ;

- | | | |
|------------|------------|------------|
| • 139.2000 | • 403.2000 | • 460.8000 |
| • 144.0000 | • 408.0000 | • 465.6000 |
| • 148.8000 | • 412.8000 | • 470.4000 |
| • 153.6000 | • 417.6000 | • 475.2000 |
| • 158.4000 | • 422.4000 | • 480.0000 |
| • 163.2000 | • 427.2000 | • 484.8000 |
| • 166.4000 | • 432.0000 | • 489.6000 |
| • 168.0000 | • 436.8000 | • 494.4000 |
| • 172.8000 | • 441.6000 | • 499.2000 |
| | • 446.4000 | • 504.0000 |
| | • 451.2000 | • 508.8000 |
| | • 456.0000 | • 513.6000 |
| | | • 518.4000 |

1. Designed to operate digital, DMR OR NXDN, along with analog FM; a single digital protocol selected with programming software.

STANDARD

GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (400-470, 450-520 MHz) Models
- 512 CH / 128 Zones
- 4-Line Basic Frame (2-Line Main/Sub-LCD, icon & key guide) / 14 characters
- 4-Line Text Message Frame (2 Lines of Text, icon & key guide)
- Function/Status LCD Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- 7-color LED Indicator
- Transmit/Busy/Call Alert/Warn LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-15 Accessory Connector
- Dual Digital Protocol¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Active Noise Reduction (ANR)
- KPG-D3N Windows® FPU
- Flash Firmware Upgrading
- Optional Software-based DES and AES Encryptions (Digital Only)
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- Digital Encode/Decode Format

ANALOG MODE

- Conventional Zones
- LTR® Zones
- FleetSync®/II: PTT ID ANI, Caller ID Display, Selective/Group Call, Emergency Status, Text Messages
- MDC-1200: PTT ID ANI, Caller ID Display, Emergency, Radio Check & Inhibit
- QT / DQT
- Two-Tone (Conventional Zones Only)
- DTMF
- Built-in Voice Inversion Scrambler

DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking Option
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming (requires KPG-180AP OTAP Manager Software)
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

DIGITAL – DMR MODE

- DMR Tier 2 Conventional
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Site Roaming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Option

OPTIONAL FEATURES

- 1000 Channel (**KWD-3000CH**)
- Front Panel Programming (**KWD-3001FP**)
- Built-in Bluetooth® Module for Data (**KWD-3002BT**)
- Digital NXDN Trunking (**KWD-3501TR**)
- DMR Tier 2 Conventional (**Factory Installed**)
- DMR Tier 3 Trunking (**KWD-3302TR**)
- DMR ARC4 Enhanced Encryption (**KWD-3502EE**)
- AES/DES Encryption (**KWD-3503AE**)
- Remote Control by Subscriber Units (**KWD-3504RC**)

RADIO

NX-3720HGK VHF (136-174MHz), 50 Watts, 512 CH, 128 Zones

NASPO
LIST DISCOUNT
30%

831.20 581.84

RADIO TRUNKING PACKAGE

NASPO
LIST DISCOUNT
30%



NX-3720HG/3820HG

VHF/UHF Digital & FM Analog Mobile Radios

Table of Contents

SOFTWARE LICENSING & RADIO FEATURE OPTIONS

<i>Radio Features</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>CONTROL HEAD REMOTE KIT</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>REMOTE CONTROL CABLES</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>MOBILE INSTALLATION ACCESSORIES</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>CONTROL STATION INSTALLATION ACCESSORIES</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>MICROPHONES AND SPEAKERS</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>SERVICE RELATED ACCESSORIES</i>	<i>LIST</i>	<i>NASPO DISCOUNT 30%</i>
<i>INSTALLATION / TUNING CHARGES</i>	<i>LIST</i>	
<i>INSTALLATION / TUNING CHARGES, CON'T</i>		



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Oregon City OR 97045
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Quote

Quote #QU13105

Date:4/21/2025

This Quote Expires On: 6/21/2025

WCSO Vehicles - if 800 Mhz add ons are requested to
be added by WCSO
WSC Due diligence review; OK SW 05/02/2025

Bill To	Ship To
WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States	WHATCOM COUNTY PUBLIC WORKS 901 W Smith Rd Bellingham WA 98226-9610 United States

Sales Rep	Terms	PO Number
Steve E Watson	Net 30	

Item	Description	Quantity	Price	Total	
Notes	800 Mhz Add on package for Patrol radios. This equipment would be needed to add the 3rd RF deck in 800 Mhz				
NX-5900BK	35W, 700/800 MHz RF Deck Only	1	\$1,205.20	\$1,205.20	✓SW
KRK-15BM	Control Head Remote Kit Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	1	\$60.80	\$60.80	✓SW
KCT-71M4	Remote Control Cable (1.6 feet)	1	\$54.70	\$54.70	✓SW
KCT-23M3	DC Cable, 35-50W, 23 feet Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	1	\$65.70	\$65.70	✓SW
KMB-33M	Mounting Bracket Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	1	\$17.20	\$17.20	✓SW
KAP-2	Horn Alert/P.A. Relay Option Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	1	\$76.70	\$76.70	✓SW
KES-8K	External speaker, 10W, 4-Ohm, 3.5mm phone plug	1	\$59.30	\$59.30	✓SW
Subtotal				\$1,539.60	
Discount - NASPO	NASPO - 00318		-30%	(\$461.88)	
TPX-VH-UHF-BA-TNC	VHF/UHF/7/800MHz Triplexer	1	\$708.75	\$708.75	
CA-TP-FP	TNC(M)-FME(M) ADAPTOR	4	\$3.48	\$13.92	
CA-NP-FP	N(m) - FME(m) ADAPTOR	1	\$14.08	\$14.08	
C23F-1F	FME(ftd) FME(ftd) 1m CS23 CABLE - Interface Cable for radios to diplexer	1	\$16.98	\$16.98	



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Quote

Quote #QU13105

Date:4/21/2025

This Quote Expires On: 6/21/2025

Item	Description	Quantity	Price	Total
313 - INITIAL RADIO PROGRAMMING	CUSTOMER FILE: Y / N NEW CODE PLUG NEEDED: Y / N CUSTOMER TO PROGRAM: Y / N FEATURE/LICENSE/KEY/ENTITLEMENT ENTERED BY: PROGRAMMING LOCATION: FILE USED: FIRMWARE FILE USED: DATE PROGRAMMED: PROGRAMMERS INITIALS: MOU NEEDED: Y / N (ATTACH PROOF AS A FILE)	1	\$35.00	\$35.00
Shipping	Shipping and Handling - This is per unit shipping and will be adjusted based on amount of equipment purchased.	1	\$45.00	\$45.00
Tariff Note	This order may be subject to applicable tariffs. Tariff rates are determined by current international trade regulations and are subject to change, which may affect final pricing.			

Subtotal \$1,911.45

Tax Total (%) \$168.22

Total \$2,079.67

<https://www.commnw.com/wp-content/uploads/2021/11/Terms-and-Conditions.pdf>

A 3% credit card fee will be applied to all credit card transactions.



NX-5700/5800/5900

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VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios



NX-5000(K-version*) Mobiles include:

- Basic Control Head (KCH-19M)
- Standard Microphone (KMC-65M)
- Mounting Bracket (KMB-33M)
- DC Cable
- Blade Fuse
- User Guide
- Premium Warranty: 3 Years

All Accessories / options: 1 Year

*K-version comes with a RF deck only
1. Multi-Digital Protocol can be used for two(2)
of the three(3) Digital Protocols set by
programming software. P25/DMR Digital
Protocols are options.

2. Requires L-5023 DB25 Cable between
Decks.

STANDARD

■ GENERAL FEATURES

- 50 W (136-174 MHz) Models
- 45 W (380-470, 450-520 MHz) Models
- 35 W (700/800 MHz) Models
- 1024 CH-GID / 128 Zones
- Full Color 2.55" (154 x 422 pixels) TFT Display
- Multi-line Text Display
- Function/Status Icons
- Multi-Language Display
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warm LED
- Emergency/AUX Key
- 4W Speaker Audio
- DB-25 Accessory Connector
- Multi Digital Protocol ¹
- Emergency Call Features
- Built-in GPS Receiver
- Built-in Bluetooth® Module
- Built-in 56-bit DES Encryption
(4 keys programmable by KPG-D1(N)K)
- Mobile Relay Station² (DMR Mode³)
- Cross Band Repeater (Only)
- Active Noise Reduction (ANR)
- KPG-D1N Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP54/55

■ DIGITAL – P25 MODE

- P25 Conventional Option
- P25 Phase 1 Trunking Option
- P25 Phase 2 Trunking Option
- Conv/Trunking OTAR Option
- Conventional Voting Scan Option
- Packet Data Option for P25 OTAR & GPS
- Text Data
- Radio Authentication
- Tone Paging

■ DIGITAL – NXDN® MODE

- NXDN® Conventional
- NXDN® TYPE-C (Gen1/Gen2) Trunking (except 700MHz)
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
(requires KPG-180AP OTAP Manager Software)
- Paging Call
- Emergency Call
- All Group Call
- Digital Two-Tone
- Status Messaging
- Remote Stun/Kill/Check
- Short & Long Data Messages
- GPS Location
- NXDN® Scrambler

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Option
- DMR Tier 3 Trunking Option
- DMR Auto Slot Select (DASS)
- AMBE+2™ VOCODER
- 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming
- Call Interrupt (Direct & Repeater Mode)
- Paging Call
- Emergency Call
- All Group Call
- Late Entry
- Status Messaging
- Remote Control by Subscriber Units
- ARC4 Encryption Optional
- Site Roaming

■ ANALOG MODE

- Conventional Zones
- LTR® Zones
- FleetSync®/II: PTT ID ANI, Caller ID Display,
Selective/Group Call, Emergency Status,
Text Messages
- MDC-1200: PTT ID ANI, Caller ID Display,
Emergency, Radio Check & Inhibit
- QT / DQT
- Two-Tone (Conventional Zones Only)
- DTMF
- Built-in Voice Inversion Scrambler

■ Multi-Deck Compatible Models & Modes

Models	Bands	Power	Operable Modes
NX-5600H	Lowband VHF (39-50)	110 Watts	Analog/NXDN
NX-5700	VHF (136-174)	50 Watts	Analog/NXDN/DMR/P25
NX-5700H	VHF (136-174)	110 Watts	Analog/NXDN/P25
NX-5800H	UHF (380-470, 450-520)	100 Watts	Analog/NXDN/P25
NX-5800	UHF (380-470, 450-520)	50 Watts	Analog/NXDN/DMR/P25
NX-5900	7/800	35 Watts	Analog/NXDN/DMR/P25

OPTIONAL FEATURES & CONFIGURATIONS

■ GENERAL FEATURES

- 4000 Channel (KWD-5000CH)
- Front Panel Programming (KWD-5001FP)
- microSD/microSDHC Memory Card Slot (KWD-5002SD)
- Built-in Bluetooth® Module for Data (KWD-5003BT)
- Remote Control by Subscriber Units (KWD-5007RC)
- 256-bit AES Encryption (KWD-AE30K/31K Encryption Module required)

■ DIGITAL – P25 MODE

- Conventional Features (KWD-5100CV)
- Phase 1 Trunking Features (KWD-5100CV & 5101TR)
- Phase 2 Trunking Features (KWD-5100CV & 5101TR & 5102TR)
- Conventional OTAR (KWD-5103RK)
- Trunking OTAR (KWD-5103RK & 5106DT)
- Conventional Voting Scan (KWD-5105VT)
- Packet Data required for Trunked OTAR/GPS (KWD-5106DT)
- P25 ARC4 Encryption (KWD-5107EE)
- Link Layer Authentication (KWD-5100CV & KWD-5101TR & KWD-AE3x Encryption Board Required)

■ DIGITAL – DMR MODE

- DMR Tier 2 Conventional Features (KWD-5300CV)
- DMR Tier 3 Trunking Features (KWD-5300CV & KWD-5301TR)

■ MOUNTING & REMOTE CONFIGURATIONS

(See NX-5000 Accessory page for details)

- KCH-20R Featured Control Head
- KCH-21R Handheld Control Head
- Single Remote Control Head
(KRK Kit & KCT-71 or KCT-77 Cable required)
- Dual Remote Control Heads
(KCH-19/20R/21R & KRK Kit & KCT-71 or KCT-77 Cables required)
- Multiple RF Decks
(KRK Kit & KCT-71 or KCT-77 Control Cable + KWD-5004MR License Key Activation required*)



RADIO

NASPO
LIST DISCOUNT 30%



NX-5700/5800/5900

VHF/UHF/700/800MHz Digital & FM Analog Mobile Radios

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RF Deck Only

*LIST NASPO
DISCOUNT 30%*

MUST purchase necessary accessories separately

NX-5900BK	35W, 700/800 MHz <u>RF Deck Only</u>	1205.20	843.64
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SOFTWARE LICENSING & RADIO FEATURE OPTIONS

General Radio Features

*LIST NASPO
DISCOUNT 30%*

P25 Radio Features

*LIST NASPO
DISCOUNT 30%*

DMR Features

LIST

Other Accessories, Software, and Services



NX-5000 Series Mobile Accessories

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MICROPHONES AND SPEAKERS		LIST	NASPO DISCOUNT 30%
KES-8K	External speaker, 10W, 4-Ohm, 3.5mm phone plug	59.30	41.51
KCT-23M3	DC Cable, 35-50W, 23 feet Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	65.70	45.99
MOUNTING BRACKETS		LIST	NASPO DISCOUNT 30%
KMB-33M	Mounting Bracket Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	17.20	12.04
KRK-15BM	Control Head Remote Kit Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	60.80	42.56
KCT-71M4	Remote Control Cable (1.6 feet)	54.70	38.29
KAP-2	Horn Alert/P.A. Relay Option Note: For mid power mobiles (NX-5700/5700B/5800/5800B/5900/5900B) only.	76.70	53.69
RADIO FEATURE LICENSE OPTIONS		LIST	NASPO DISCOUNT 30%
ENCRIPTION MODULES			
REMOTE & MULTI-RF DECK CONFIGURATIONS			
CONVENIENT REMOTE & MULTI-RF DECK ACCESSORY KITS			
MID POWER / Remote Kit - Single Head / Single RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Dual Head / Single RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Single Head / Dual RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Single Head / Dual RF Deck, External Speakers per deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Dual Head / Dual RF Deck		LIST	NASPO DISCOUNT 30%
MID POWER / Remote Kit - Dual Head / Dual RF Deck, External Speakers per deck		LIST	NASPO DISCOUNT 30%
HIGH POWER / Single Head Remote Mount Kit		LIST	NASPO DISCOUNT 30%
HIGH POWER / Single Remote Mount / Dual High Power RF Deck		LIST	NASPO DISCOUNT 30%
HIGH POWER / Single Deck Dual Head Remote Mount		LIST	NASPO DISCOUNT 30%
REMOTE & MULTI-RF DECK ASSEMBLY LABORS		LIST	NASPO DISCOUNT 30%



NX-5000 Series Mobile Accessories

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INSTALLATION / TUNING SERVICES	LIST	NASPO DISCOUNT 30%
SOFTWARE LICENSING & RADIO FEATURE OPTIONS		
SERVICE RELATED ACCESSORIES	LIST	NASPO DISCOUNT 30%
FleetSync® & NEXEDGE® AVL & MESSAGING	LIST	NASPO DISCOUNT 30%