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## Header

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## General Information

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Procurement Folder: 12406

SO Doc Code: CRFQ

Procurement Type: Central Master Agreement

SO Dept: 0621

Vendor ID: 

SO Doc ID: DJS1500000004

Legal Name: ELECTRONIC COMMUNICATIONS OF WV INC

Published Date: 8/8/14

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Close Date: 8/12/14

Total Bid: \$259,422.72

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Solicitation Description: 

Total of Header Attachments: 0

Total of All Attachments: 0



Purchasing Division  
2019 Washinton Street East  
Post Office Box 50130  
Charleston, WV 25305-0130

State Of West Virginia  
Solicitation Response

Proc Folder : 12406

Solicitation Description : DJS1500000004 Addendum No. 1

Proc Type : Central Master Agreement

| Date issued | Solicitation Closes    | Solicitation No              | Version |
|-------------|------------------------|------------------------------|---------|
|             | 2014-08-12<br>13:30:00 | SR 0621 ESR08121400000000047 | 1       |

**VENDOR**

000000201873

ELECTRONIC COMMUNICATIONS OF WV INC

**FOR INFORMATION CONTACT THE BUYER**

Dean Wingerd  
3045580468  
dean.c.wingerd@wv.gov

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    | two way radios | 5.00000 | EA         | \$478.00   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43191510  |              |               |         |

Extended Description : Kenwood NX-300K2 UHF Portable radios or equal.

| Line | Comm Ln Desc  | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|---------------|-----------|------------|------------|-----------------------------|
| 2    | radio antenna | 205.00000 | EA         | \$9.80     |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221729  |              |               |         |

Extended Description : kenwood model KRA-27M or equal

| Line | Comm Ln Desc   | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|----------------|-----------|------------|------------|-----------------------------|
| 3    | two way radios | 200.00000 | EA         | \$805.00   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43191510  |              |               |         |

Extended Description : kenwood TK 5320K2 UHF Portable Radio or equal includes trunking KWD TR30

| Line | Comm Ln Desc         | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|----------------------|---------|------------|------------|-----------------------------|
| 4    | two way mobile radio | 1.00000 | EA         | \$1,354.00 |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43191510  |              |               |         |

Extended Description : Kenwood TK 5810BGK2 mobile radio or equal. includes trunking.

| Line | Comm Ln Desc  | Qty      | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|---------------|----------|------------|------------|-----------------------------|
| 5    | radio antenna | 10.00000 | EA         | \$9.59     |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221729  |              |               |         |

Extended Description : Kenwood model KRA23M or equal.

| Line | Comm Ln Desc      | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------|-----------|------------|------------|-----------------------------|
| 6    | battery for Radio | 405.00000 | EA         | \$85.75    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 26111700  |              |               |         |

Extended Description : battery for Radio. Kenwood model KNB-48L or equal

| Line | Comm Ln Desc    | Qty      | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-----------------|----------|------------|------------|-----------------------------|
| 7    | battery Charger | 55.00000 | EA         | \$49.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 26111700  |              |               |         |

Extended Description : Charger Kenwood model KSC-32 or equal

| Line | Comm Ln Desc       | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------|-----------|------------|------------|-----------------------------|
| 8    | speaker microphone | 205.00000 | EA         | \$67.55    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

Extended Description : speaker microphone Kenwood model KMC-41 or equal

| Line | Comm Ln Desc                                                 | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------------------------------------------------|---------|------------|------------|-----------------------------|
| 9    | Radio Programming Software for Portables,Mobiles & Repeaters | 2.00000 | EA         | \$695.11   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43230000  |              |               |         |

Extended Description : radio Programming Software for Portables, Mobiles & Repeaters

| Line | Comm Ln Desc                                              | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-----------------------------------------------------------|---------|------------|------------|-----------------------------|
| 10   | Radio Programming Cable for Portables,Mobiles & Repeaters | 2.00000 | EA         | \$332.85   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 26121600  |              |               |         |

Extended Description : Radio Programming Cable for Portables,Mobiles & Repeaters

| Line | Comm Ln Desc   | Qty      | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|----------------|----------|------------|------------|-----------------------------|
| 11   | 6 Unit Charger | 30.00000 | EA         | \$441.00   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 26111704  |              |               |         |

Extended Description : 6 Unit Charger Model Kenwood KSC-326K or equal

| Line | Comm Ln Desc            | Qty       | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------------|-----------|------------|------------|-----------------------------|
| 12   | Spring Action Belt Clip | 400.00000 | EA         | \$10.29    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 32131023  |              |               |         |

Extended Description : Spring action Belt Clip Kenwood KBH-11 or equal

| Line | Comm Ln Desc      | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------|---------|------------|------------|-----------------------------|
| 13   | 3.5" Earphone Kit | 8.00000 | EA         | \$36.75    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 52161554  |              |               |         |

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Extended Description : | 3.5" Earphone kit Kenwood Model KEP-1 or equal. |
|------------------------|-------------------------------------------------|

| Line | Comm Ln Desc       | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------|---------|------------|------------|-----------------------------|
| 14   | yellow housing kit | 1.00000 | EA         | \$28.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

|                        |                                          |
|------------------------|------------------------------------------|
| Extended Description : | Yellow Housing kit KWD-YH20-NX2 or equal |
|------------------------|------------------------------------------|

| Line | Comm Ln Desc       | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------|---------|------------|------------|-----------------------------|
| 15   | Orange Housing Kit | 1.00000 | EA         | \$28.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

|                        |                                          |
|------------------------|------------------------------------------|
| Extended Description : | Orange Hoousing Kit KWD-OH20-NX or equal |
|------------------------|------------------------------------------|

| Line | Comm Ln Desc   | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|----------------|---------|------------|------------|-----------------------------|
| 16   | AES Encryption | 3.00000 | EA         | \$698.60   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43230000  |              |               |         |

|                        |                                          |
|------------------------|------------------------------------------|
| Extended Description : | AES Encryption Module KWD-AE20K or equal |
|------------------------|------------------------------------------|

| Line | Comm Ln Desc      | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------|---------|------------|------------|-----------------------------|
| 17   | P25 Flash Upgrade | 2.00000 | EA         | \$554.40   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43230000  |              |               |         |

Extended Description : P25 Flash upgrade NX-300 or equal

| Line | Comm Ln Desc                             | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|------------------------------------------|---------|------------|------------|-----------------------------|
| 18   | KCH-15M Full Feature Remote Control head | 1.00000 | EA         | \$664.00   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

Extended Description : Kenwood KCH-15M Full Feature Remote Control Head or Equal

| Line | Comm Ln Desc                   | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|--------------------------------|---------|------------|------------|-----------------------------|
| 19   | Kenwood KES-5 External speaker | 1.00000 | EA         | \$42.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

Extended Description : Kenwood KES-5 External Speaker or Equal

| Line | Comm Ln Desc                                    | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------------------------------------|---------|------------|------------|-----------------------------|
| 20   | Kenwood KMC-27 Noise Cancelling hand microphone | 1.00000 | EA         | \$72.80    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

Extended Description : Kenwood KMC-27 Noise cancelling device or equal

| Line | Comm Ln Desc                                              | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-----------------------------------------------------------|---------|------------|------------|-----------------------------|
| 21   | PCTEL ASPR 7495,150-512 Mosaic Antenna/Spring & NMO mount | 1.00000 | EA         | \$55.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221706  |              |               |         |

Extended Description : PCTEL ASPR 7495, 150-512 Mosaic Antenna/Spring & NMO mount or Equal

| Line | Comm Ln Desc                                            | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|---------------------------------------------------------|---------|------------|------------|-----------------------------|
| 22   | Cabling needed to install complete mobile unit or equal | 1.00000 | EA         | \$80.00    |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 26121600  |              |               |         |

Extended Description : Cabling needed to install complete mobile unit or equal

| Line | Comm Ln Desc                                    | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------------------------------------|---------|------------|------------|-----------------------------|
| 23   | HAND HELD CONTROL HEAD REMOTE, KCH-16M OR EQUAL | 1.00000 | EA         | \$732.00   |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43190000  |              |               |         |

Extended Description : HAND HELD CONTROL HEAD REMOTE KCH-16M OR EQUAL

| Line | Comm Ln Desc                              | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------------------------------|---------|------------|------------|-----------------------------|
| 24   | KENWOOD NXR-810 UHF 450 520 MHz, OR EQUAL | 4.00000 | EA         | \$1,505.00 |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221721  |              |               |         |

Extended Description : KENWOOD NXR-810 UHF 450 520 MHz, OR EQUAL

| Line | Comm Ln Desc                                  | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-----------------------------------------------|---------|------------|------------|-----------------------------|
| 25   | KENWOOD NXR-810K2 UHF<br>400-470 MHz OR EQUAL | 4.00000 | EA         | \$1,505.00 |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221721  |              |               |         |

|                        |                                            |
|------------------------|--------------------------------------------|
| Extended Description : | KENWOOD NXR-810K2 UHF 400-470 MHz OR EQUAL |
|                        |                                            |

| Line | Comm Ln Desc                                                | Qty     | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|------|-------------------------------------------------------------|---------|------------|------------|-----------------------------|
| 26   | 40 Watt continuous duty RF Amplifier<br>KSGPA23401 or Equal | 4.00000 | EA         | \$1,165.00 |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 43221721  |              |               |         |

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| Extended Description : | 40 Watt continuous duty RF Amplifier KSGPA23401 or equal |
|                        |                                                          |

# KENWOOD

Listen to the Future

## NEXEDGE®

# NX-200/300

NEXEDGE® VHF/UHF Digital & FM Portable Radios

**NXDN®**

**FleetSync®**  
by KENWOOD

### ● GENERAL FEATURES

- 5 W (136-174 MHz) Models
- 5 W (400-470, 450-520 MHz) Models
- 512 CH-GID / 128 Zones
- 12-Key Keypad Models
- 14 Character Alphanumeric Aliases
- Backlit Dot Matrix LCD
- 3-Digit Sub-Display
- Function/Status LCD Icons
- RSSI Indicator
- Date & 12/24 Hour Time Clock
- Transmit/Busy/Call Alert/Warn LED
- On/Off Volume Knob
- 16-Position Mechanical Selector
- 6 Front PF & Menu Keys
- 2 Side PF Keys
- Emergency/AUX Key
- 500 mW Speaker Audio
- VOX Ready
- Emergency Call Features
- Emergency Man-Down Option
- Lone Worker
- Multi-Language Display
- Programmable TX/RX Indication (On/Off)
- Special Alert Tone Patterns
- Time Out Timer
- Busy Channel Lockout
- LCD Battery Status Indicator
- Low Battery Alert
- Battery Saver
- Weather-sealed ACC Connector
- MIL-Spec Speaker Mic Options
- KMC-38GPS Speaker Mic Option
- KPG-111D Windows® FPU
- Flash Firmware Upgrading
- Front Panel Test & Tune
- Cloning
- MIL-STD-810 C/D/E/F
- MIL-STD "Driven-Rain"
- IP-54/55 Water & Dust Intrusion
- Easy Option Port
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- Intrinsically Safe Option
- VGS-1 Voice Guide/ Voice & GPS Data Storage Option

### ● DIGITAL – COMMON

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging¹
- Remote Stun/Kill¹
- Remote Check¹

- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN® Scrambler Included (Conventional: per CH)

### ● DIGITAL – CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- DTMF (Encode/Decode)
- Individual & Group Selective Call
- Mixed FM/Digital Operation

### ● DIGITAL – TRUNKING MODE

- Individual Private Call
- Group Call
- Broadcast Call
- Transmission Trunked Mode²
- Message Trunked Mode²
- Call Queuing with Priority²
- Call Queue Pre-emption²
- Late Entry (UID & GID)²
- 4 Priority Monitor ID's²
- Remote Group Add¹
- Failsoft Mode
- Multi-Site IP Network Compatible

### ● SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

### ● FM MODES – GENERAL

- 25 & 12.5 kHz Channels
- FleetSync®/II
- DTMF Encode / Decode
- Companded Audio
- Voice Inversion Scrambler
- Encryption/ANI Board Control

### ● FM CONVENTIONAL ZONES

- QT / DQT
- Two-Tone Decode
- Single/Two-Tone Encode
- Call Key 1-6
- Operator Selectable Tone

### ● FM LTR® TRUNKED ZONES

- Kenwood LTR® Features

### ● FleetSync®/II (FM)

- PTT ID Digital ANI
- Selective Call & Group Call
- Status Messaging¹
- Emergency Status
- Caller ID Display
- Short Text Messages¹
- Power On/Off Status Messages¹
- Send/Display GPS (KMC-38GPS)¹
- PTT ID & Emergency GPS Reporting¹
- Status Message Block GPS Reporting¹



## Options

### ■ KNB-47L

Li-Ion Battery  
(1950mAh)



### ■ KNB-48L

Li-Ion Battery  
(2550mAh)

### ■ KNB-50NC

Ni-MH Battery  
(2000mAh) Intrinsically Safe

### ■ KSC-32

Tri-Chemistry Rapid  
Rate Charger



### ■ KSC-326

Rapid Rate Six Unit Charger  
for Ni-Cd/Ni-MH/Li-Ion



### ■ KMC-41M

MIL-STD & IP 54/55  
Speaker Microphone



### ■ KMC-38GPS

GPS Speaker  
Microphone



### ■ KHS-11

Heavy Duty Earphone



### ■ KEP-1

Heavy Duty Earphone



### ■ KRA-22/23

VHF/UHF Helical Antenna



### ■ KRA-26/27

VHF/UHF Whip Antenna



### ■ KRA-16/17

VHF/UHF Stubby Antenna



### ■ KRA-25

VHF High Gain Antenna



### ■ KRA-28

VHF Broad  
Band Antenna



### ■ VGS-1

Voice Guide  
& Storage Unit



### ■ KBH-11

Belt Clip (2.5")



All accessories and options may not be available in all markets.  
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

## Main Specifications

|                                                        |                     | NX-200                                       | NX-300          |
|--------------------------------------------------------|---------------------|----------------------------------------------|-----------------|
| <b>GENERAL</b>                                         |                     |                                              |                 |
| <b>Frequency Range</b>                                 | Type 1              | 136-174 MHz                                  | 450-520 MHz     |
|                                                        | Type 2              |                                              | 400-470 MHz     |
| <b>Number of Channels</b>                              |                     |                                              | 512             |
| <b>Zones</b>                                           |                     |                                              | 128             |
| <b>Max. Channels per Zone</b>                          |                     |                                              | 250             |
| <b>Channel Spacing</b>                                 | <b>Analog</b>       | 12.5 / 15 / 25 / 30 kHz                      | 12.5 / 25 kHz   |
|                                                        | <b>Digital</b>      | 6.25 / 12.5 kHz                              | 6.25 / 12.5 kHz |
| <b>Operating Voltage</b>                               |                     | 7.5V DC $\pm$ 20%                            |                 |
| <b>Battery Life (with KNB-48L)</b>                     | 5-5-90              | Approx. 14.5 hours                           |                 |
|                                                        | 10-10-80            | Approx. 9.0 hours                            |                 |
| <b>Operating Temperature Range</b>                     |                     | -22° F to +140° F (-30° C to +60° C)         |                 |
| <b>Frequency Stability</b>                             |                     | $\pm$ 2.0 ppm                                | $\pm$ 1.0 ppm   |
| <b>Antenna Impedance</b>                               |                     | 50 $\Omega$                                  |                 |
| <b>Dimensions (W x H x D)</b> Projections not included | <b>Radio only</b>   | 2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) |                 |
|                                                        | <b>with KNB-47L</b> | 2.28 x 5.02 x 1.63 in (58 x 127.5 x 41.3 mm) |                 |
|                                                        | <b>with KNB-48L</b> | 2.28 x 5.02 x 1.91 in (58 x 127.5 x 48.5 mm) |                 |
|                                                        | <b>Weight (net)</b> | 8.82 oz (250 g)                              |                 |
| <b>FCC ID</b>                                          | Type 1              | ALH378400                                    | ALH378500       |
|                                                        | Type 2              |                                              | ALH378501       |
|                                                        |                     |                                              |                 |
| <b>IC Certification</b>                                | Type 1              | 282D-378400                                  | 282D-378500     |
|                                                        | Type 2              |                                              | 282D-378501     |

|                                   |                                   | NX-200                                                                          | NX-300 |
|-----------------------------------|-----------------------------------|---------------------------------------------------------------------------------|--------|
| <b>RECEIVER</b>                   |                                   |                                                                                 |        |
| <b>Sensitivity</b>                | <b>Digital @ 6.25kHz (3% BER)</b> | 0.20 $\mu$ V                                                                    |        |
|                                   | <b>Digital @ 12.5kHz (3% BER)</b> | 0.25 $\mu$ V                                                                    |        |
|                                   | <b>Analog (12 dB SINAD)</b>       | 0.25 $\mu$ V                                                                    |        |
| <b>Selectivity</b>                | <b>Analog @ 25 kHz</b>            | 72 dB                                                                           |        |
|                                   | <b>Analog @ 12.5 kHz</b>          | 65 dB                                                                           |        |
| <b>Intermodulation Distortion</b> | <b>Analog</b>                     | 70 dB ( $\pm$ 50,100 kHz)                                                       |        |
| <b>Spurious Response</b>          | <b>Analog</b>                     | 70 dB                                                                           |        |
| <b>Audio Distortion</b>           |                                   | Less than 3%                                                                    |        |
| <b>Audio Output</b>               |                                   | 500 mW / 8 $\Omega$                                                             |        |
| <b>TRANSMITTER</b>                |                                   |                                                                                 |        |
| <b>RF Power Output</b>            |                                   | 5 W / 1 W                                                                       |        |
| <b>Spurious Response</b>          |                                   | 70 dB                                                                           |        |
| <b>FM Hum &amp; Noise</b>         | <b>Analog @ 25 kHz</b>            | 45 dB                                                                           |        |
|                                   | <b>Analog @ 12.5 kHz</b>          | 40 dB                                                                           |        |
| <b>Audio Distortion</b>           |                                   | Less than 3%                                                                    |        |
| <b>Modulation</b>                 |                                   | 16K0F3E, 11K0F3E, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D |        |

Analog measurements made per TIA/EIA 603 and specifications shown are typical.  
Kenwood reserves the right to change specifications without prior notice or obligation.

FleetSync® is a registered trademark of Kenwood Corporation.  
LTR® is a registered trademark of Transcrypt International.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
Windows® is a registered trademark of Microsoft Corporation.  
NXDN® is a registered trademark of Kenwood Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of Kenwood Corporation.

## Applicable MIL-STD & IP

| MIL Standard                             | MIL 810C<br>Methods/Procedures | MIL 810D<br>Methods/Procedures | MIL 810E<br>Methods/Procedures | MIL 810F<br>Methods/Procedures |
|------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <b>Low Pressure</b>                      | 500.1/Procedure I              | 500.2/Procedure I, II          | 500.3/Procedure I, II          | 500.4/Procedure I, II          |
| <b>High Temperature</b>                  | 501.1/Procedure I, II          | 501.2/Procedure I, II          | 501.3/Procedure I, II          | 501.4/Procedure I, II          |
| <b>Low Temperature</b>                   | 502.1/Procedure I              | 502.2/Procedure I, II          | 502.3/Procedure I, II          | 502.4/Procedure I, II          |
| <b>Temperature Shock</b>                 | 503.1/Procedure I              | 503.2/Procedure I              | 503.3/Procedure I              | 503.4/Procedure I, II          |
| <b>Solar Radiation</b>                   | 505.1/Procedure I              | 505.2/Procedure I              | 505.3/Procedure I              | 505.4/Procedure I              |
| <b>Rain</b>                              | 506.1/Procedure I, II          | 506.2/Procedure I, II          | 506.3/Procedure I, II          | 506.4/Procedure I, III         |
| <b>Humidity</b>                          | 507.1/Procedure I, II          | 507.2/Procedure II, III        | 507.3/Procedure II, III        | 507.4                          |
| <b>Salt Fog</b>                          | 509.1/Procedure I              | 509.2/Procedure I              | 509.3/Procedure I              | 509.4                          |
| <b>Dust</b>                              | 510.1/Procedure I              | 510.2/Procedure I              | 510.3/Procedure I              | 510.4/Procedure I, III         |
| <b>Vibration</b>                         | 514.2/Procedure VIII, X        | 514.3/Procedure I              | 514.4/Procedure I              | 514.5/Procedure I              |
| <b>Shock</b>                             | 516.2/Procedure I, II, V       | 516.3/Procedure I, IV          | 516.4/Procedure I, IV          | 516.5/Procedure I, IV          |
| <b>International Protection Standard</b> |                                |                                |                                |                                |
| <b>Dust &amp; Water Protection</b>       | IP54/55                        |                                |                                |                                |

footnotes from Front:

<sup>1</sup> Requires NX subscriber unit PC Serial Interface compatible software application (e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>2</sup> These trunked features are primarily system programming and operational dependent. Priority Monitor also requires NX subscriber settings.

## Listen to the Future

Kenwood has always connected with people through sound. Now we want to expand the world of sound in ways that only Kenwood can, listening to our customers and to the pulse of the coming age as we head toward a future of shared discovery, inspiration and enjoyment.

**Kenwood U.S.A. Corporation**  
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# KENWOOD

Listen to the Future

## NEXEDGE®

# NXR-710/810

NEXEDGE® VHF/UHF Digital & FM Base Units

**NXDN®**

### ● GENERAL FEATURES

- 136 - 174 MHz, 50W
- 400 - 470, 450 - 520 MHz, 40W
- 50 / 40W @ 50% Duty
- 25 / 25W @ 100% Duty
- 40, 100 & 150W 100% Duty UHF Rack/ Cabinet Systems
- 50, 110 & 150W 100% Duty VHF Rack/Cabinet Systems
- Repeater Operation
- Duplex / Simplex Base Operation
- 30 CH Scanning Base
- Two-Digit LED Display
- 6 Lighted Programmable Function keys
- Front Panel Speaker
- 4W External Speaker Audio
- Volume Control
- Microphone Jack
- Program Interface
- Remote Terminal Interface
- Programmable AUX I/O's
- DTMF Front Panel PF key Control
- DTMF AUX Output Control
- DTMF AUX Input Monitoring
- Windows® PC programming
- Flash Firmware Upgrading

### ● DIGITAL – CONVENTIONAL MODE

- NXDN® Digital Air Interface
- Conventional IP Network
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Mixed FM/Digital Operation
- NXDN® Scrambler Built-in
- 16 RAN Repeater Control Built-in
- 1,000 GIDs Per Site
- 1,000 UIDs Per Site
- Individual & Group Selective Call
- All Group Call
- NXR Over-the-Air Alias

### ● FM MODES – GENERAL

- VHF: 25 & 12.5 kHz Channels
- UHF: 25 & 12.5 kHz Channels
- Built-in Scrambler

### ● FM CONVENTIONAL MODE

- 16 QT/DQT Repeater Control Built-in
- Hang Timer / Time Out Timer / CW ID
- External FM Controller Interface

### ● FM TRUNKED MODE

- External LTR® Controller Interface
- External MPT Controller Interface



## Options

■ **KMC-27A**  
Microphone  
(MIL-SPEC noise-canceling)

■ **KMC-27B**  
Microphone

■ **KMC-35**  
Microphone

■ **KMC-9C**  
Desktop Microphone

■ **KES-5**  
External Speaker

■ **KTI-3M**  
Network Interface  
Unit



## Main Specifications

All accessories and options may not be available in all markets.  
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

|                             |                                                                                  | NXR-710                                                                               | NXR-810                          |
|-----------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------|
| GENERAL                     |                                                                                  |                                                                                       |                                  |
| Frequency Range             | K<br>K2                                                                          | 136-174 MHz<br>-                                                                      | 450-520 MHz<br>400-470 MHz       |
| Number of Channels          |                                                                                  | 30                                                                                    |                                  |
| Channel Spacing             | Analog<br>Digital                                                                | 12.5 / 15 / 25 / 30 kHz<br>6.25 / 7.5 / 12.5 / 15 kHz                                 | 12.5 / 25 kHz<br>6.25 / 12.5 kHz |
| PLL Channel Step            |                                                                                  | 2.5 / 3.125 kHz                                                                       |                                  |
| Current Drain               | Standby<br>Receive<br>Transmit                                                   | 0.5A<br>1.0A<br>11.0A                                                                 |                                  |
| TX Power                    | 50% Duty<br>100% Duty                                                            | 50 W<br>25 W                                                                          | 40 W<br>25 W                     |
| Frequency Stability         |                                                                                  | ± 1.0 ppm                                                                             | ± 0.5 ppm                        |
| Operating Voltage           |                                                                                  | 10.8 -15.6 V DC                                                                       |                                  |
| Operating Temperature Range |                                                                                  | -22° F to +140° F (-30° C to +60° C)                                                  |                                  |
| Antenna Impedance           |                                                                                  | 50                                                                                    |                                  |
| Dimensions (W x H x D)      | Projections not included                                                         | 19 x 3-1/2 x 13-1/3 inch (483 x 88 x 340 mm)                                          |                                  |
| Weight (net)                |                                                                                  | 21.4 lbs (9.7 kg)                                                                     |                                  |
| FCC ID                      | K<br>K2                                                                          | K44422300<br>-                                                                        | K44422400<br>K44422401           |
| IC Certification            | K<br>K2                                                                          | 282F-422300<br>-                                                                      | -<br>282F-422401                 |
| RECEIVER                    |                                                                                  |                                                                                       |                                  |
| Sensitivity                 | Digital @ 6.25kHz (3% BER)<br>Digital @ 12.5kHz (3% BER)<br>Analog (12 dB SINAD) | 0.22 µV<br>0.28 µV<br>0.28 µV                                                         |                                  |
| Selectivity                 | Analog @ 25 kHz<br>Analog @ 12.5 kHz                                             | 83 dB<br>77 dB                                                                        | 80 dB<br>74 dB                   |
| FM Hum & Noise              | Analog @ 25 kHz<br>Analog @ 12.5 kHz                                             | 55 dB<br>50 dB                                                                        |                                  |
| Intermodulation Distortion  |                                                                                  | 80 dB                                                                                 |                                  |
| Spurious Response           |                                                                                  | 90 dB                                                                                 |                                  |
| Audio Distortion (Ext. SP)  |                                                                                  | Less than 2.5% at 1000 Hz                                                             |                                  |
| Audio Output (Ext. SP)      |                                                                                  | 4 W (at 4   , less than 5% distortion)                                                |                                  |
| TRANSMITTER                 |                                                                                  |                                                                                       |                                  |
| RF Power Output             |                                                                                  | 25 W to 50 W                                                                          | 25 W to 40 W                     |
| Spurious & Harmonics        |                                                                                  | 80 dB                                                                                 |                                  |
| FM Hum & Noise              | Analog @ 25 kHz<br>Analog @ 12.5 kHz                                             | 55 dB<br>50 dB                                                                        |                                  |
| Audio Distortion            |                                                                                  | Less than 1% at 1000 Hz                                                               |                                  |
| Modulation                  |                                                                                  | 16K0F3E, 11K0F3E, 8K30F1E,<br>8K30F1D, 8K30F7W, 4K00F1E,<br>4K00F1D, 4K00F7W, 4K00F2D |                                  |

Analog measurements made per TIA/EIA 603 and specifications shown are typical.  
Kenwood reserves the right to change specifications without prior notice or obligation.

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