

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

#1 COURT SQUARE, SUITE 203  
PARKERSBURG, WV 26101

IN RE: MINUTES OF MEETING HELD  
MONDAY, DECEMBER 21, 2015

PRESENT: STEPHEN GAINER, ABSENT  
DAVID BLAIR COUCH, COMMISSIONER  
ROBERT K. TEBAY, COMMISSIONER

At 9:30 A.M., the County Commission of Wood County met in regular session. They signed purchase orders, invoices, orders and other correspondence.

**AGENDA AND DISCUSSION ITEMS**

At 9:30 A.M., the County Commission met with Rich Shaffer, Wood County Assessor, and Rick Woodyard, E-911 Director, to discuss the need for a new mapping program in Wood County. Rich Shaffer stated that the cities of Parkersburg, Vienna and Williamstown have agreed to contribute and will be going out to bid in January.

At 9:43 A.M., the County Commission met with Kelleyn McClain with the Wood County Senior Citizens Association to discuss long term plans and funding for the center. Ms. McClain requested funding assistance to help pay the offset on a West Virginia Department of Transportation grant to purchase a new van for the facility.

At 10:09 A.M., the County Commission opened a bid from Miller Communications for radio equipment. (Order M/

At 10:10 A.M., the County Commission approved the request to hire Kevin Townsend, Jr. as a General Office Support worker for Wood County Day Report Center.

**ORDERS APPROVED AND ATTACHED TO THESE MINUTES**

M/3265, M/3266, M/3267, M/3268, M/3269, M/3270, M/3271, M/3272, M/3273,  
M/3274, M/3275

Having no further scheduled appointments or business to attend to, the County  
Commission adjourned at 10:31 A.M.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
Stephen Gainer, President

  
\_\_\_\_\_  
David Blair Couch, Commissioner

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

To listen to this meeting, please refer to DVD labeled December 21, 2015.

Wood County Commission Meeting  
Held December 21, 2015

Please Print

1.	Rich Shaffer, Assessor
2.	RICK WOODYARD 911
3.	ED HUPP OEM
4.	Kelley McClain - WCSA (Senior Center)
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**Exhibit 1**

Discussion, Review and Approval of the following items may be included during this meeting and are available for public inspection in the Office of the County Administrator two days prior to this meeting.

Budget revisions

Purchase orders and requisitions

Revisions, reimbursement requests, resolutions and correspondence for grants

Grant disbursements to other entities

Invoices for expenditures to be paid

Reimbursements for travel expenses

Bid specifications and procedures for bids previously authorized by the Commission

Monthly Hotel Occupancy Tax Collection disbursements

Disbursements for previously approved Innovative Programming Grants

Tax refunds, exonerations, improprieties and consolidations

Probate items, including settlements, petitions and Fiduciary Commissioner reports

General Fund disbursements to entities

Funding requests from local organizations by written form

Payroll modification as submitted by elected officials



Wood County Commission  
Agenda

12/21/2015

1 Court Square, Suite 203  
Parkersburg, WV 26101

9:30 A.M.	Discuss aerial photography in Wood County	Rich Shaffer, Assessor and Rick Woodyard, E-911 Director
	Discuss long term plans and funding for Wood County Senior Citizens Association	Kelley McClain
	Consider request to hire Kevin Townsend, Jr. as General Office Support Worker for Wood County Day Report Center - \$11.50/hr	
10:00 A.M.	Open sealed bids for radio equipment for E-911 Center	
	Administrator's Report	Marty Seufer, County Administrator
	County Commission Reports	

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**Discussion, Review and Approval of expenditures and disbursements identified on Exhibit 1, hereto attached**

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**Correspondence for this meeting will be available for public review during regular office hours in Room 205 of the Wood County Courthouse two (2) days prior to the meeting**

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**Exhibit 1**

Discussion, Review and Approval of the following items may be included during this meeting and are available for public inspection in the Office of the County Administrator two days prior to this meeting.

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General Fund disbursements to entities

Funding requests from local organizations by written form

Payroll modification as submitted by elected officials

DECEMBER 21, 2015

12/21/15  
76/150

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION AWARDED THE BID FOR RADIO  
EQUIPMENT TO BE USED BY WOOD COUNTY EMERGENCY  
SERVICES

**ORDER**


On this date, upon a motion made by David Blair Couch, seconded by Robert K. Tebay and passed, did hereby OPEN SEALED BIDS and AWARD the bid for the Wood County Radio Equipment Project. Said award was upon the recommendation of Wood County Emergency Services Director, Rick Woodyard. Such sealed bid was received for review on October, 2015. The sole bid was awarded to:

Miller Communications  
One Wirless Way, Suite 100  
Parkersburg, WV 26101  
Bid Price - \$3,425.00

A copy of said bid is attached to this order and should be made a part thereof.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3265

# millier COMMUNICATIONS

WV CONTRACTORS LICENSE #WVO14483  
One Wireless Way Suite 100 Parkersburg, WV 26101  
VOICE 304.863.8595 FAX 304.863.3786  
www.millercomm.com

12/21/15  
7/1/15d

E-911  
DISPATCH  
CENTERS

TELEPHONE  
SYSTEMS

COMPUTER  
INTEGRATION

ACCESS  
CONTROL  
SYSTEMS

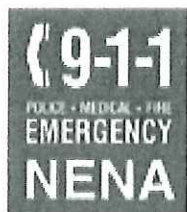
PROFESSIONAL  
TWO WAY RADIO  
SYSTEMS

CLOSED  
CIRCUIT  
TELEVISION

OUTDOOR  
WARNING  
SYSTEMS

SUPERVISORY  
CONTROL  
AND  
DATA  
ACQUISITION

RADIO  
TELEMETRY  
SYSTEMS



**BID  
PRESENTED  
TO**

**Wood County Commission**

**FOR**

**Radio Systems for Fire  
and law enforcement**

Presented by:  
Randolph Scott Kinsolving  
A.E.E.T. / B.E.E.T.  
FCC General Radiotelephone License # PG-1-11824  
Vice President  
Systems Integration Engineer  
Nena Member  
WV SORN Programmer RP-0070

Your "Turn Key Project" Source



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Miller Communications Incorporated  
One Wireless Way Suite 100  
Parkersburg, West Virginia 26101  
304-863-8595(Voice)  
304-863-3786(Fax)

# Miller Communications Incorporated

December 18, 2015

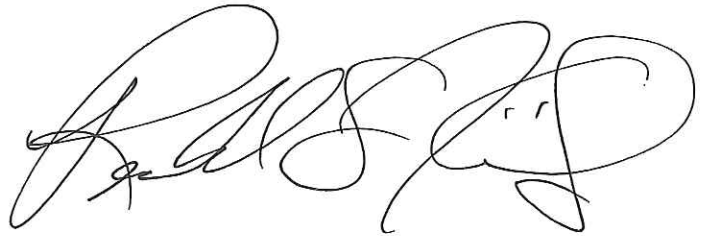
Wood County 911  
RFP for Radios for Fire and Law Enforcement  
Parkersburg, W.V. 26101

Miller Communications Incorporated is pleased to present this response to Wood County 911s' RFP for radio equipment for fire and law enforcement. Miller Communications has been actively involved in the engineering and development of systems since our founding in 1976. If chosen to provide the solution, authorized personnel at Miller Communications to make decisions or provide change orders are Randy Kinsolving (Vice president), Tim Miller (President), or Scott Miller (Sales Manager).

The radios quoted in this bid are manufactured by JVC/Kenwood, and are dual band radios incorporated into one control head. The operational difference between these and other dual band products on the market is that both radios can appear on the same screen at once, supporting actually two separate radios rather than one frame with both bands sharing resources within that frame.

Once again we would like to thank you for the invitation to submit a proposed radio tower and simulcast solution for Wood County 911. If there are questions concerning this or any other proposal, please feel free to contact me at 304-863-8595(Voice), 304-863-3786(Fax), or email : [randykin@millercomm.com](mailto:randykin@millercomm.com)

Sincerely,



Randy Kinsolving

Vice President/ Systems Integration Engineer

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**Your "turn key project" Source.**

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Miller Communications Incorporated  
One Wireless Way Suite 100  
Parkersburg, West Virginia 26101  
304-863-8595(Voice)  
304-863-3786(Fax)

# Miller Communications Incorporated

December 18, 2015

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**Page 5** (Each) Itemized pricing of Law Enforcement radios

**Page 6** (10 unit) Itemized pricing of Law Enforcement radios

**Page 7-8** General specification of radio equipment

Page 2

Your "turn key project" Source.

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Your "Turn Key Project" Source

**One Wireless Way Suite 100**

**Parkersburg, WV 26101**

**Tel: (304) 863-8595**

**Fax: (304) 863-3786**

To: Wood County Commission  
 Attn: Radios for 911 center  
 Email: [ehupp@woodcounty911.com](mailto:ehupp@woodcounty911.com)  
 Phone: 304-485-3828  
 Date: 12/18/2015

**Radios (Each price) for Fire Service**

Kenwood dual band Mobile Radio (VHF P25, UHF P25/P25 trunking (WV SIRN))				
1	TK-5730BF	150mHz mobile radio deck	920.00	920.00
1	TK-5830BF2	450mHz mobile radio deck	920.00	920.00
2	KWD-5100CV	P25 Conv (for VHF and UHF radios)	-	-
2	KWD-5101TR	P25 Trunking (for UHF radio only)	-	-
1	KCH-20RM	Full feature control head	425.00	425.00
2	KRK-15BM	End Cap for remote RF deck	40.00	80.00
1	KCT-M71M4	1.6 m cable	35.00	35.00
1	KCT-71M2	17 foot control cable	50.00	50.00
1	KCT-72M	Accessory cable for KCH20	30.00	30.00
3	KES-5	Speakers	45.00	135.00
2	KCT-23M	Power cable assemblies	25.00	50.00
2	KMB33	Mounting brackets	15.00	30.00
1	KMC-27B	Microphone	40.00	40.00
1	L-5032	Package dual deck, single head, tri speaker	110.00	110.00
1	RAPT	Labor for assembly, programming , and testing (first radio only)*	200.00	200.00
1	VHFWBANT	VHF antenna	75.00	75.00
1	UHFWBANT	UHF antenna	75.00	75.00
1	INST	Installation of radios and antennas	250.00	250.00
			<b>Total</b>	<b>3,425.00</b>

\*Labor for every radio after first is \$125.00

Sincerely,

Randy Kinsolving



Your "Turn Key Project" Source  
 One Wireless Way Suite 100  
 Parkersburg, WV 26101  
 Tel: (304) 863-8595  
 Fax: (304) 863-3786

To: Wood County Commission  
 Attn: Radios for 911 center  
 Email: [ehupp@woodcounty911.com](mailto:ehupp@woodcounty911.com)  
 Phone: 304-485-3828  
 Date: 12/18/2015

**Radios (10 lot price) for Fire Service**

Kenwood dual band Mobile Radio (VHF P25, UHF P25/P25 trunking (WV SIRN))				
10	TK-5730BF	150mHz mobile radio deck	920.00	9,200.00
10	TK-5830BF2	450mHz mobile radio deck	920.00	9,200.00
20	KWD-5100CV	P25 Conv (for VHF and UHF radios)	-	-
20	KWD-5101TR	P25 Trunking (for UHF radio only)	-	-
10	KCH-20RM	Full feature control head	425.00	4,250.00
20	KRK-15BM	End Cap for remote RF deck	40.00	800.00
10	KCT-M71M4	1.6 m cable	35.00	350.00
10	KCT-71M2	17 foot control cable	50.00	500.00
10	KCT-72M	Speaker and accessory cable for KCH20RM	30.00	300.00
30	KES-5	Speakers	45.00	1,350.00
20	KCT-23M	Power cable assemblies	25.00	500.00
20	KMB33	Mounting brackets	15.00	300.00
10	KMC-27B	Microphone	40.00	400.00
10	L-5032	Package dual deck, single head, tri speaker	110.00	1,100.00
1	RAPT	Labor for assembly, programming, and testing (first radio only)	200.00	200.00
9	RAPT230	Labor for assembly, programming, and testing (radio 2-10)	125.00	1,125.00
10	VHFWBANT	VHF antenna	75.00	750.00
10	UHFWBANT	UHF antenna	75.00	750.00
10	INST	Installation of radios and antennas	250.00	2,500.00
			<b>Total</b>	<b>33,575.00</b>

Sincerely,

Randy Kinsolving



Your "Turn Key Project" Source  
**One Wireless Way Suite 100**  
**Parkersburg, WV 26101**  
**Tel: (304) 863-8595**  
**Fax: (304) 863-3786**

To: Wood County Commission  
 Attn: Radios for 911 center  
 Email: [ehupp@woodcounty911.com](mailto:ehupp@woodcounty911.com)  
 Phone: 304-485-3828  
 Date: 12/18/2015

**Radios (Each price) for Law Enforcement with AES(UHF) and DES(VHF) encryption**

Kenwood dual band Mobile Radio (VHF P25, UHF P25/P25 trunking (WV SIRN))				
1	TK-5730BF	150mHz mobile radio deck	920.00	920.00
1	TK-5830BF2	450mHz mobile radio deck	920.00	920.00
1	KWD-AE30K	AES encryption with multikey operation FIPS140-2(UHF Deck)*	595.00	595.00
2	KWD-5100CV	P25 Conv (for VHF and UHF radios)	-	-
2	KWD-5101TR	P25 Trunking (for UHF radio only)	-	-
1	KCH-20RM	Full feature control head	425.00	425.00
2	KRK-15BM	End Cap for remote RF deck	40.00	80.00
1	KCT-M71M4	1.6 m cable	35.00	35.00
1	KCT-71M2	17 foot control cable	50.00	50.00
1	KCT-72M	Accessory cable for KCH20	30.00	30.00
3	KES-5	Speakers	45.00	135.00
2	KCT-23M	Power cable assemblies	25.00	50.00
2	KMB33	Mounting brackets	15.00	30.00
1	KMC-27B	Microphone	40.00	40.00
1	L-5032	Package dual deck, single head, tri speaker	110.00	110.00
1	L-5007	Factory install KWD-AE30	55.00	55.00
1	RAPT	Labor for assembly, programming , and testing (first radio only)**	200.00	200.00
1	VHFWBANT	VHF antenna	75.00	75.00
1	UHFWBANT	UHF antenna	75.00	75.00
1	INST	Installation of radios and antennas	250.00	250.00
			<b>Total</b>	<b>4,075.00</b>

\* Encryption keys to be loaded by Wood County's KVL-3000 keyloader

\*\*Labor for every radio after first is \$125.00

Sincerely,

Randy Kinsolving



Your "Turn Key Project" Source  
**One Wireless Way Suite 100**  
**Parkersburg, WV 26101**  
**Tel: (304) 863-8595**  
**Fax: (304) 863-3786**

**To:** Wood County Commission  
**Attn:** Radios for 911 center  
**Email:** [ehupp@woodcounty911.com](mailto:ehupp@woodcounty911.com)  
**Phone:** 304-485-3828  
**Date:** 12/18/2015

**Radios (10 lot price) for Law Enforcement with AES(UHF) and DES(VHF) encryption**

Kenwood dual band Mobile Radio (VHF P25, UHF P25/P25 trunking (WV SIRN))				
10	TK-5730BF	150mHz mobile radio deck	920.00	9,200.00
10	TK-5830BF2	450mHz mobile radio deck	920.00	9,200.00
10	KWD-AE30K	AES encryption with multikey operation FIPS140-2(UHF Deck)*	595.00	5,950.00
20	KWD-5100CV	P25 Conv (for VHF and UHF radios)	-	-
20	KWD-5101TR	P25 Trunking (for UHF radio only)	-	-
10	KCH-20RM	Full feature control head	425.00	4,250.00
20	KRK-15BM	End Cap for remote RF deck	40.00	800.00
10	KCT-M71M4	1.6 m cable	35.00	350.00
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30	KES-5	Speakers	45.00	1,350.00
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20	KMB33	Mounting brackets	15.00	300.00
10	KMC-27B	Microphone	40.00	400.00
10	L-5032	Package dual deck, single head, tri speaker	110.00	1,100.00
10	L-5007	Factory install KWD-AE30	55.00	550.00
1	RAPT	Labor for assembly, programming , and testing (first radio only)	200.00	200.00
9	RAPT230	Labor for assembly, programming , and testing (radio 2-10)	125.00	1,125.00
10	VHFWBANT	VHF antenna	75.00	750.00
10	UHFWBANT	UHF antenna	75.00	750.00
10	INST	Installation of radios and antennas	250.00	2,500.00
			<b>Total</b>	<b>40,075.00</b>

\* Encryption keys to be loaded by Wood County's KVL-3000 keyloader

Sincerely,

Randy Kinsolving

# KENWOOD

## NX-5700(B)/5800(B)



### NXDN®

VHF/UHF DIGITAL TRANSCEIVER  
MULTI-PROTOCOL DIGITAL & ANALOG Mobile RADIOS

NEXEDGE®  Bluetooth®  GPS  FleetSync®

### ● FEATURE HIGHLIGHTS

- Multi-Protocol operation in P25 (Phase I&II), NXDN® protocols
- Mixed Digital & FM Analog Operation allows intelligent migration in mixed sites and easy migration with digital radios in other sites
- Large, Color 2.55" (154 x 422 pixels) TFT Display for at-a-glance operational status checking
- Easy to follow GUI and Multi-line Text to convey more information
- Dual Remote Control Head Option and Multi-Band (Multi RF Deck) Control Option providing scalable configurations for various operations and applications
- Built-In GPS Receiver/Antenna for effective fleet management
- Bluetooth® Module built-in for hands-free operation
- Active Noise Reduction (ANR) utilizing built-in DSP for suppression of ambient noise
- Renowned KENWOOD Digital Audio Quality
- Built-in 56-bit DES Encryption
- Optional 256-bit AES Encryption
- microSD/microSDHC Memory Card Slot for increased memory capacity for "Voice & Data"
- IP54/55 and MIL-STD-810 C/D/E/F/G

### ● GENERAL FEATURES

- 5 W – 50 W (136-174 MHz) Models
- 5 W – 45 W (380-470, 450-520 MHz) Models
- Maximum of 4,000 CH/Radio capacity, 512 CH/Zone, 128 Zones
- DB-25 Accessory Connector
- 4 W Speaker Audio

### ● DIGITAL – P25 MODE

- P25 Conventional Trunking (Phase 1/Phase 2) Protocol
- AMBE+2™ Enhanced Vocoder
- Talk Group ID Lists
- Individual ID Lists
- Caller ID Display
- Remote Monitor/Remote Check
- Radio Inhibit
- Encryption Key Zeroize & Retention
- P25 GPS Location
- P25 Over-the-Air Re-keying
- Over-the-Air Programming<sup>2</sup>

### ● DIGITAL – NXDN® MODE

- NXDN® Conventional/Trunking Protocol<sup>1</sup>
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming<sup>2</sup>
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging<sup>3</sup>
- Remote Stun/Kill<sup>3</sup>
- Remote Check<sup>3</sup>
- Short & Long Data Messages<sup>3</sup>
- GPS Location
- NXDN® Digital Scrambler Included

<sup>1</sup> Only supports TYPE-C Protocol

<sup>2</sup> Requires KENWOOD OTAP Management software.

<sup>3</sup> Requires NX subscriber unit PC serial interface compatible software application (e.g. KENWOOD AVL & Dispatch Messaging software) or hardware (e.g. console).

### ● FM MODES – GENERAL

- Conventional & 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
- Built-in Voice Inversion Scrambler

### ● MULTIPLE CONFIGURATIONS (Option)

The NX-5700(B)/5800(B) allows users to create a variety of configurations to suit different requirements by combining different options.

- Single RF Deck/Single Remote Control Head: The simplest configuration can be achieved by turning the front control panel of the NX-5700/5800 into a Remote Control Head.
- Single RF Deck/Dual Remote Control Heads\*: One controller can be mounted on the dashboard, with the other at the rear.
- Dual RF Decks/Single Remote Control Head\*: You can operate two radios (e.g. VHF and UHF bands) as if they were one by adding an NX-5700B/5800B RF Deck.
- Dual RF Decks/Dual Remote Control Heads\*: This adds the convenience of a dual control head to the above configuration. Advantage: 2 operators can control 2 radios (e.g. VHF and UHF bands) from separate control heads.

\*Available later



<http://jvckenwood.com>

## Options

### ■ NX-5700B/5800B

RF Deck

### ■ KCH-19

Basic Control Head Kit

### ■ KCH-20R\*

Featured Control Head

### ■ KRK-14H

Control Head Interface Kit  
(adapter for the Head)

### ■ KRK-15B

Control Head Remote Kit  
(adapter for the RF Deck)

### ■ KCT-71

Remote Control Cable  
(available in 3 lengths of  
17ft (5.2m), 25ft (7.6m),  
1.6ft (0.5m)\*)

### ■ KWD-AE30/AE31

Secure Cryptographic Module

### ■ KPG-180AP

OTAP Manager

### ■ KMC-35

Microphone

### ■ KMC-36

Keypad Microphone

### ■ KES-3

External Speaker  
(compact low profile;  
3.5 mm plug)

### ■ KES-5

External Speaker  
(40 W max input,  
requires KAP-2)

### ■ KCT-23

DC Power Cable

### ■ KCT-46

Ignition Sense Cable

### ■ KLF-2

Line Filter

### ■ KMB-10

Key Lock Adapter

### ■ KAP-2

Horn Alert/P.A.  
Relay Unit

### ■ KRA-40G

GPS Active Antenna

### ■ KPS-15

DC Power Supply  
(23A max)

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-5700(B)	NX-5800(B)		NX-5700(B)	NX-5800(B)
<b>GENERAL</b>			<b>RECEIVER</b>		
Frequency Range			Sensitivity		
Type 1	136-174 MHz	450-520 MHz	NXDN* 6.25 kHz Digital (3% BER)		0.20 µV
Type 2		380-470 MHz	NXDN* 12.5 kHz Digital (3% BER)		0.25 µV
Max. Channels Per Radio	1024 (Up to 4000 CH with option)		P25 Digital (5% BER)		0.25 µV
Number of Zones	128		P25 Digital (1% BER)		0.40 µV
Max. Channels per Zone	512		Analog (12dB SINAD)		0.25 µV
Channel Spacing			Selectivity		
Analog	12.5/15/25*30* kHz	12.5/25* kHz	P25 Digital		63 dB
Digital	6.25/12.5 kHz	6.25/12.5 kHz	Analog @12.5 kHz		71 dB
Power Supply	13.6 V DC ±15%		Analog @ 25 kHz		81 dB
Current Drain			Intermodulation		80 dB
Standby	0.45 A		Spurious Rejection		85 dB
RX	2.3 A		Audio Distortion		
TX	13 A		Digital		2 %
Operating Temperature	-22°F to +140°F (-30°C to +60°C)		Audio Output Power	4 W/4 Ω (Remote Control Head: 3 W/4 Ω)	
Frequency Stability	±1.0 ppm		<b>TRANSMITTER</b>		
Dimensions (W x H x D)			RF Power Output Power	50 W to 1 W	45 W to 5 W
Projections not included	6.69 x 1.89 x 6.93 in. (170.0 x 48.0 x 176 mm)		Spurious Emission	-73 dB	-75 dB
Weight (net)	3.53 lbs (1.6 kg)		FM Hum & Noise		
FCC ID			Analog @ 25 kHz	45 dB	
Type 1	Pending	K44471200	Analog @ 12.5 kHz	50 dB	
Type 2		K44471201	Audio Distortion	2%	
			Modulation	16K0F3E, 11K0F3E, 8K10F1E, 8K10F1D, 8K10F1W, 8K30F1E, 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D	

\*25 and 30 kHz are not included in the models sold in the USA or US territories.  
Analog measurements made per TIA 603 and specifications shown are typical.  
Digital measurements made per TIA 102CAAA and specifications shown are typical.  
Specifications are subject to change without notice, due to advancements in technology.

The Bluetooth word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc.  
SD and microSD are trademarks of SD-3C, LLC in the United States, and/or other countries.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
NXDN® is a trademark of JVCENWOOD Corporation and Icom Inc.  
NEXEDGE® is a registered trademark of JVCENWOOD Corporation.

## Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Low Pressure	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
Low Temperature	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
Temperature Shock	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
Solar Radiation	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
Rain**	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
Humidity	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
Salt Fog	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
Dust	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
Vibration	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
Shock	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
<b>International Protection Standard</b>					
Dust & Water	IP54/55**				

\*1: Blowing rain protection for the Remote Control Head only. \*2: IP54: RF Deck; IP55: Remote Control Head

# KENWOOD

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www.kenwood.ca

  
www.jvckenwood.com



ISO9001 Registered  
Professional Systems Business Group  
JVCENWOOD Corporation

ADS#35014 Printed in USA



DECEMBER 21, 2015

12/21/15  
7/1/150

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$1,117.79 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-402.

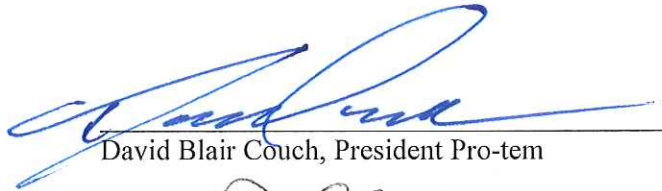
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of one thousand one hundred seventeen dollars and seventy-nine cents (\$1,117.79) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-402. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 127 and bearing the date of August 17, 2015 at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3266

DECEMBER 21, 2015

12/21/15  
21/150

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$7,641.38 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-402.

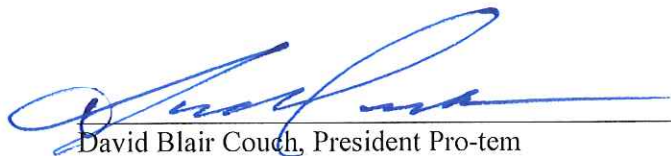
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of seven thousand six hundred forty-one dollars and thirty-eight cents (\$7,641.38) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-402. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 121 and bearing the date of October 19, 2015 at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3267

DECEMBER 21, 2015

12/21/15

71/151

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$5,119.01 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-405B.

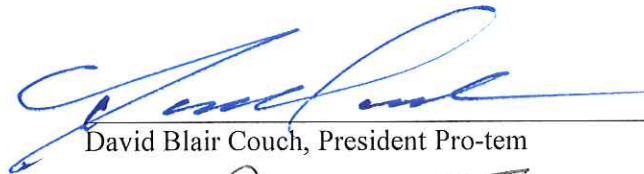
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of five thousand one hundred nineteen dollars and one cent (\$5,119.01) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-405B. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 121 and bearing the date of October 19, 2015 at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3268

12/21/15  
7/1/15

DECEMBER 21, 2015

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$415.48 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-405B.

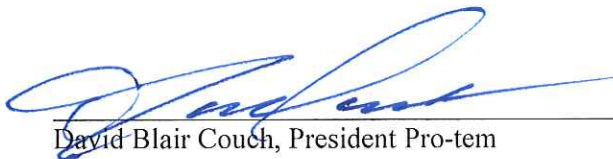
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of four hundred fifteen dollars and forty-eight cents (\$415.48) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-405B. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 128 and bearing the date of November 2, 2015 at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3269

12/21/15  
7/1/15/

DECEMBER 21, 2015

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$2,933.00 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-408.

**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of two thousand nine hundred thirty-three dollars and zero cents (\$2,933.00) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-408. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 119 and bearing the date of October 15, 2015 at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3270

DECEMBER 21, 2015

12/21/15

71/151

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$2,509.16 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-DOHDD.

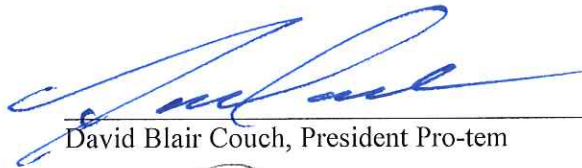
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of two thousand five hundred nine dollars and sixteen cents (\$2,509.16) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-DOHDD. Receipt of the aforementioned check is pursuant to an Order appearing in Order Book 71, at Page 121 and bearing the date of October 19, 2015, at which time Stephen Gainer, in his official capacity as President, and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3271

DECEMBER 21, 2015

12/21/15  
71/152

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$282.70 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-DOHWZ.

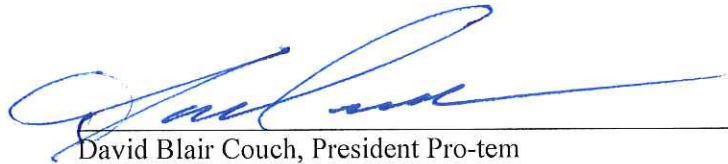
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of two hundred eighty-two dollars and seventy cents (\$282.70) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-DOHWZ. Receipt of the aforementioned check is pursuant to an Order appearing in Order Book 71, at Page 118 and bearing the date of October 15, 2015, at which time Stephen Gainer, in his official capacity as President, and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
David Blair Couch, President Pro-tem

  
Robert K. Tebay, Commissioner

M/3272

12/21/15  
7/1/152

DECEMBER 21, 2015

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$61,115.20 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-154.

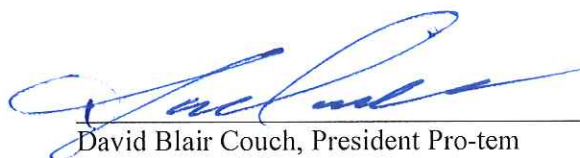
**ORDER**

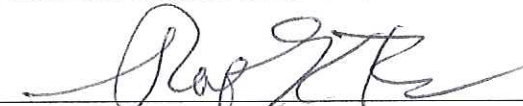
On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of sixty-one thousand one hundred fifteen dollars and twenty cents (\$61,115.20) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-154. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 125 and bearing the date of October 26, 2015, at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3273



DECEMBER 21, 2015

12/21/15

74/152

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$7,291.67 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE GOVERNOR'S HIGHWAY SAFETY PROGRAM GRANT NUMBER F15-HS-03-402.

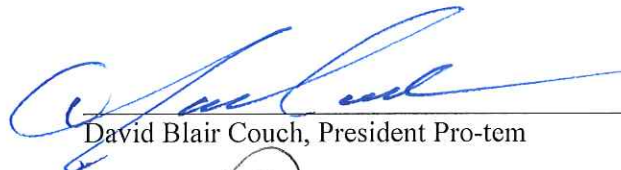
**ORDER**

On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the amount of seven thousand two hundred ninety-one dollars and sixty-seven cents (\$7,291.67) which represents reimbursement to Wood County for expenses incurred during the month of September, 2015, in regard to the Governor's Highway Safety Program Grant Number F15-HS-03-402. Receipt of the aforementioned check is pursuant to an ORDER appearing in Order Book 71, at Page 147 and bearing the date of December 17, 2015 (Nunc Pro Tunc November 5, 2015) at which time Stephen Gainer, in his official capacity as President and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the Governor's Highway Safety Program Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3274

DECEMBER 21, 2015

12/21/15  
71/152

IN THE COUNTY COMMISSION OF WOOD COUNTY, WEST VIRGINIA

IN RE: THE COUNTY COMMISSION WAS IN RECEIPT OF A CHECK FROM THE STATE OF WV IN THE AMOUNT OF \$3,255.00 WHICH REPRESENTS REIMBURSEMENT IN REGARD TO THE VICTIMS OF CRIME ASSISTANCE GRANT NUMBER 14-VA-031.

**ORDER**

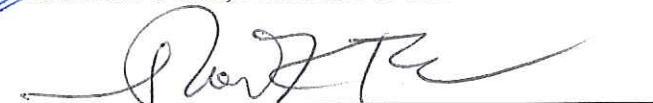
On this date, the County Commission of Wood County was in receipt of a check from the State of West Virginia in the three thousand two hundred fifty-five dollars and zero cents (\$3,255.00) which represents reimbursement to Wood County for expenses incurred during the month of July, 2015, in regard to the Victims of Crime Assistance Grant Number 14-VA-031. Receipt of the aforementioned check is pursuant to an Order appearing in Order Book 71, at Page 118 and bearing the date of October 15, 2015, at which time Stephen Gainer, in his official capacity as President, and on behalf of the County Commission, was AUTHORIZED to EXECUTE the Request for Reimbursement.

Documentation pertaining to the WVDCJS Victims of Crime Advocate Grant is on file in the Office of the County Administrator.

APPROVED:

THE COUNTY COMMISSION OF WOOD COUNTY

  
\_\_\_\_\_  
David Blair Couch, President Pro-tem

  
\_\_\_\_\_  
Robert K. Tebay, Commissioner

M/3275

Mark Roudas  
WOOD County 01:47:50 PM  
Instrument No 8685096  
Date Recorded 12/21/2015  
Document Type 000  
Pages Recorded 1  
Book-Page 71-150

12/21/15

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
6106	UNITED BANK	UNITED BANKCARD CENTER	REGULAR	12/17/2015	1,846.64	
COMM.CRIMINAL JUSTICE FUND Bank Id 172 Totals					<u>1,846.64</u>	
Report Totals					<u>20,385.41</u>	



# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
5829	UNITED BANK	UNITED BANKCARD CENTER	REGULAR	12/17/2015	178.97	
ASSESSOR'S VALUATION Bank Id 156 Totals					<u>178.97</u>	

*APL*

*RTJ*

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
6394	UNITED BANK	UNITED BANKCARD CENTER	REGULAR	12/17/2015	5,735.99	

E-911 FUND Bank Id 107 Totals

5,735.99

Two handwritten signatures in black ink, one above the other, located in the lower right quadrant of the page.

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
159441	UNITED BANK	UNITED BANKCARD CENTER	REGULAR	12/17/2015	12,623.81	

GENERAL FUND Bank Id 101 Totals

12,623.81

Two handwritten signatures in black ink. The top signature is a cursive name, possibly 'A. Paul'. The bottom signature is a cursive name, possibly 'J. Paul'.

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
324	UNITED B	UNITED BANK	REGULAR	12/18/2015	458,518.00	

SPECIAL BLDG FUND Bank Id 244 Totals

458,518.00

*See*  
*PKA*

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
6107	ALCOHOLMONIT	ALCOHOL MONITORING SYSTEMS	REGULAR	12/18/2015	148.75	
6108	FIREEXTIN	FIRE EXTINGUISHER SPECL	REGULAR	12/18/2015	58.00	
6109	WCC	WOOD COUNTY COMMISSION	REGULAR	12/18/2015	1500.00	
6110	CRYSTAL	CRYSTAL SPRING WATER	REGULAR	12/18/2015	46.50	
6111	DOMINIONH	DOMINION HOPE	REGULAR	12/18/2015	43.67	
6112	SUDDENLINKD	SUDDENLINK	REGULAR	12/18/2015	210.10	

**COMM.CRIMINAL JUSTICE FUND Bank Id 172 Totals**

2,007.02

**Report Totals**

2,007.02



# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
1806	DENTAL	RENAISSANCE	REGULAR	12/18/2015	996.54	
159412	LOWES	LOWE'S COMPANIES, INC.	VOID	12/18/2015	(438.98)	X
159442	CARQUEST	CARQUEST	REGULAR	12/18/2015	238.02	
159443	COUNTY CO	COUNTY COMMISSIONERS' ASSOC. OF WV	REGULAR	12/18/2015	225.00	
159444	CWS	CWS	REGULAR	12/18/2015	2,388.10	
159445	GLOBAL	GLOBAL GOV/ED SOLUTIONS INC	REGULAR	12/18/2015	2,271.29	
159446	HAJOCA	HAJOCA CORPORATION	REGULAR	12/18/2015	247.54	
159447	IKE WALKER	IKE WALKER ORGANIZATION	REGULAR	12/18/2015	360.00	
159448	NOLANS	NOLAN'S CLEANING	REGULAR	12/18/2015	7,498.47	
159449	QUALITY	QUALITY SALES & SERVICE	REGULAR	12/18/2015	305.00	
159450	S W RESOU	S W RESOURCES	REGULAR	12/18/2015	1,182.24	
159451	TRI-STATE	TRI-STATE ROOFING & SHEET METAL CO	REGULAR	12/18/2015	552.50	
159452	USBANKEQUIP	US BANK EQUIPMENT FINANCE	REGULAR	12/18/2015	140.00	
159453	WCJDC	WOOD COUNTY JUVENILE DRUG COURT	REGULAR	12/18/2015	5,000.00	
159454	WVVV	WVVV-FM - V96.9	REGULAR	12/18/2015	487.50	
159455	WXCR	SEVEN RANGES RADIO INC	REGULAR	12/18/2015	487.50	
159456	ZMM	ZMM INC	REGULAR	12/18/2015	1,675.51	

**GENERAL FUND Bank Id 101 Totals**

23,611.23

# Check Register Report for Wood County Commission

Check No	Vendor Id	Vendor Name	Type	Check Date	Check Amount	Rec
6395	CHAPMAN	CHAPMAN PRINTING CO. INC	REGULAR	12/18/2015	70.31	
6396	MOVMC	MID OHIO VALLEY MED GROUP	REGULAR	12/18/2015	152.50	
6397	VERIZONW	VERIZON WIRELESS	REGULAR	12/18/2015	343.47	
<b>E-911 FUND Bank Id 107 Totals</b>					566.28	