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*************************
KNG Firmware Releases Notes - Release 5.5.0c
*********************
Release Date May 30, 2017
Release KNG-Pxxx Portables
                                  Ver. 5.5.0c
      KNG2-Pxxx Portables
                                  Ver. 5.5.0c
                                  Ver. 5.5.0c
      KNG-Mxxx Mobiles
      KAA0660 Remote Control Head
                                  Ver. 5.5.0c
      KAA0670 Handheld Control Head
                                  Ver. 5.5.0c
(NOTE: Refer to Service Bulletin BKSB-1051 for
important compatibility details for this update)
Minimum RES Editor KAA0733
                                  Ver. 5.5.0
Bug Fixes
General:
      Fixed cloning of zones and picklist from 5.5.x to older/legacy firmware
      (Refer to Service Bulletin BKSB-1050 for further cloning information)
      Set Bluetooth discoverable to off by default
      Fixed to support AINA BT speaker-mic
**********************
KNG Firmware Releases Notes - Release 5.5.0b
**********************
Release Date March 22, 2017
Release KNG-Pxxx Portables
                                  Ver. 5.5.0b
                                  Ver. 5.5.0b
      KNG2-Pxxx Portables
                                  Ver. 5.5.0b
      KNG-Mxxx Mobiles
      KAA0660 Remote Control Head
                                  Ver. 5.5.0b
      KAA0670 Handheld Control Head
                                  Ver. 5.5.0b
Minimum RES Editor KAA0733
                                  Ver. 5.5.0
Features
General:
      Updated splash screens to BK Technologies
**********************
KNG Firmware Releases Notes - Release 5.5.0a
************************
Release Date January 30, 2017
Release KNG-Pxxx Portables
                                  Ver. 5.5.0a
      KNG2-Pxxx Portables
                                  Ver. 5.5.0a
                                  Ver. 5.5.0a
      KNG-Mxxx Mobiles
                                 Ver. 5.5.0a
      KAA0660 Remote Control Head
```

KAA0670 Handheld Control Head Ver. 5.5.0a

Minimum RES Editor KAA0733 Ver. 5.5.0

*** For major release notes, please see Release 5.5.0 below ***

Bug Fixes

HCH and RCH:

Fixed issue when mobile to control head audio would be muted when receiving a valid RX signal.

Trunking:

Fixed radio not booting when programmed with >255 trunking scan entries

KNG Firmware Releases Notes - Release 5.5.0

Release Date January 26, 2017

Release KNG-Pxxx Portables Ver. 5.5.0

KNG2-Pxxx Portables Ver. 5.5.0

KNG-Mxxx Mobiles Ver. 5.5.0

KAA0660 Remote Control Head Ver. 5.5.0

KAA0670 Handheld Control Head Ver. 5.5.0

Minimum RES Editor KAA0733

Ver. 5.5.0

(Note: RES is a new radio editor that is replacing NeoVision. RES Ver. 5.5.0 will read "code plugs" that were generated with firmware version 5.0.0 or later.

If a code plug was generated with firmware Ver. 5.0.0 or later, then the code plug will be updated to Ver. 5.5.0 format when read.)

Features

General:

KNG2: Added the ability to set local time zone by adding UTC offset to the GPS UTC time

Added "Speaker Stress Test" capabilities located in the System Test Menu

Portable:

Provided support for 3-way toggle switch

Mobile:

Added MSAT activation/deactivation function to a function key Added Public Address (PA) support

HCH and RCH:

Added Public Address (PA) support in RCH KAA0660 When querying version, proper device type is reported

Conventional:

Added talkback encryption based on the collar switch setting and not just by the talkback scan setting

Set as default the talkback encryption based on the collar switch setting Re-implemented Global Squelch Adjust

Added the ability to switch "on/off" the Vote Scan function

Re-implemented Vote Scan as an option

Set "Global Conv. Keypad Editing Lockout" to "on" for default

Trunking:

Added support to handle UTC offset for Date and Time packets that don't have the local time offset

Added support not to display duplicate messages with message updates Added multiple attempts to obtain and IP address for trunked data

Added PTT priority over messages

Added the ability of RX Voice not to be interrupted by various alert tones Added the ability to have encryption settings for unit calls

Bug Fixes

General:

Fixed "garbled" encrypted audio at the beginning/end of RX
Fixed no error tone or message while changing secure TX mode on a non-selectable channel

Fixed Voice Encoding Ignored while on a Trunking Channel

Added "Vote Scan" enable to the persistent setting length

Fixed transmit clear when radio is set to secure transmit mode

Fixed condition where the RX audio is not coming from the speaker when a qualified signal is received

Fixed file system error on power-up

Fixed the ability to toggle surveillance via the menu when surveillance mode is strapped to a channel

Fixed "audio squawk" when using button combination when zeroizing keys
Fixed timeout occurrence when RES write and "Configuring Radio" is being displayed

Fixed unit call secure setting to not be selectable if strapped to "clear" or "secure" setting

Fixed NAC code programming while in the keypad programming menu

Portable:

Fixed loud open mic. sound when "Battery Life" menu is programmed to a button and it is selected

KNG2: Fixed backlight setting related to permanently off

Mobile:

Fixed soft lockup on RX-only trunking system when pressing PTT rapidly Eliminated the failure to update the control head screen after plugging remote in after power-up

HCH and RCH:

Fixed display freezing when alternating legends are being used

Conventional:

Fixed the display of "Emergency" in place of displaying RX/TX pick list

Fixed Zone Cloning Failure with specific code plug

Fixed talkback encryption with talkback channel and not to channel knob setting

Fixed TX/RX key display line not correctly updating when scanning is enabled

Fixed to display "Emergency" message and senders ID when receiving an RX alert tone

Fixed not to select voted channel that is not in the selected group

Fixed blank display on Channel Scan List after Vote Scan disable

Added notification to user when Vote Scan is disabled

Fixed displaying wrong transmit key during Emergency revert channel

Fixed Emergency Alarm to not work with incorrect NAC

Fixed cloning issues when cloning to legacy units

Fixed the microphone "offhook monitor" state when mic. is connected to RCH or Main RF deck when a HCH or RCH is attached

Eliminated the KNG's to lockup when cloning from a KNG-PxxxS

Trunking:

Fixed PTT bounce causing no TX

Fixed lock-up due to quickly attempting to transmit while "System Resources" are not available

Fixed Site Affiliation Alias Display line with correct site

Fixed the ability to still display the GPS coordinates even though the trunking site does not support GPS

Fixed "Failsoft" failure between firmware versions 5.4.15 and 5.4.16

DFSI:

Fixed LED consistency while in DFSI mode

GPS:

Save the time after a manual entry through the power cycle

Bluetooth:

Fixed OTAR messages not passed off to the proper class when sent over Bluetooth

KNG Firmware Releases

Release Date June 23, 2016

Release KNG-Pxxx Portables Ver. 5.4.0c

KNG-Mxxx Mobiles Ver. 5.4.0c
KAA0660 Remote Control Head Ver. 5.4.0c
KAA0670 Handheld Control Head Ver. 5.4.0c

Minimum Neovision Editor KAA0732 Ver. 2.4.0 Neovision ASK Editor KAA0735 Ver. 2.4.0

Bug Fixes

General:

Modified old vs new FIPSCOM version check to prevent attempting to export DES/DES-XL/ADP keys when not supported

RCH/HCH:

 $\label{lem:fixed RCH/HCH regression where control heads couldn't enter the configuration menu$

Fixed HCH volume control bugs: HCH couldn't control own volume & HCH was not correctly adjusting RCH volume control

Change HCH rocker description text color from black to white

Conventional:

"Emergency" displayed in place of RX/TX pick list

KNG Firmware Releases

Release Date June 3, 2016

Release KNG-Pxxx Portables Ver. 5.4.0b
KNG-Mxxx Mobiles Ver. 5.4.0b
KAA0660 Remote Control Head Ver. 5.4.0b
KAA0670 Handheld Control Head Ver. 5.4.0b

Minimum Neovision Editor KAA0732 Ver. 2.4.0 Neovision ASK Editor KAA0735 Ver. 2.4.0

Features

General:

Encrypt low speed data bytes with ADP Moved menu button on unprogrammed channel screen Zeroize keys with softkey combination Miscellaneous trunking feature additions

Mobile/Base:

Reverse color scheme on display. Background from white to black, and characters from black to white

ACC mic and OPT x input support hi PTT

Zeroize Keys should not prompt user

KNG2:

Added temperature to system test Bluetooth UI improvements Added notification when saving date and time

Conventional:

Added triple beep clear and secure talk permit tone Increase Code Guard Picklist Length to 256 entries

GPS:

Acquisition tweaks Peer-to-peer tweaks UID via P25 string

Bug Fixes

General:

Data registration hold-off fails Disable BT menu when un-optioned DSP lockup on transmit Emergency Button does not appear to disable FIPSCOM error message missing

For a P25 trunking system, when the site alias list contains >255 entries, radio display is blank.

Inverted picklist code guards don't work Squelch tail on powerup tone Zone select toggle switch stops working on unprogrammed channel

Mobile:

Accessory I/O enable bugs Emergency accessory input can get out of sync Master Volume control of RCH Menu problem

KNG2:

Audio Pops
DSP crash when C-ACE is loaded with more than 64 keys
Programmable button press and hold times not implemented

Conventional:

KNG to KNG cloning broken
ANI Index of 512 is invalid
Correct NAC Busy Channel failure
Destination clone error

DPH/GPH CMD cloning picklist to KNG
Emergency polite tries failure
Failure to resume scanning after emergency canceled
Global squelch adjustment reset
GPH > KNG cloning hands on ANI/DTMF
MDC list indexing is off
Reference channel cloning
RX emergency notification with incorrect NAC
Unqualified DTMF decoder display

Trunking:

AHS Registration issue
Dual mode scan issues
Emergency call alert tone problem
Out-of-range tone not sounding
Priority scan edit priority channel 1
Priority scan talkback
Registration/affiliation error tones
RX-only invalid menu entry
Unit call failures

DFSI:

AMBE audio issues

OTAR:

No zeroize response

User Interface:

RSSI display during data registration attempts

KNG Firmware Releases

Release Date Oct. 30, 2015 Release KNG-Pxxx Portables

KNG-Pxxx Portables Ver. 5.3.0 KNG-Mxxx Mobiles Ver. 5.3.0

KAA0660 Remote Control Head Ver. 5.3.0 KAA0670 Handheld Control Head Ver. 5.3.0

Minimum Neovision Editor KAA0732 Ver. 2.3.0

Neovision ASK Editor KAA0735 Ver. 2.3.0

Features

General:

Increased channel capacity from 2048 to 5000.

Added "Radio Accountability Tone" - it was requested by a fire agency to use at a fire scene to account for all personnel to save time during a roll call.

Added "Alert Tone" feature

Modified the "minimum volume" set feature

Improved boot time

Improved the Zone write time when writing Only Zone Parameters to the radio.

Portable:

Internal Button Press Test.

Portable Battery Life Function and Improvements -

In the programmable menu screen "Battery Life", the following values can be read:

% battery capacity available until depletion The full capacity the battery Estimated time left before depletion

Mobile/Base:

When in DFSI mode with the Base or Mobile, the display to indicate a remote connection and not just showing a blank screen.

Added the press and hold feature when using an accessory button in the mobile as an emergency button.

Added Accessory Input function to mute the Mobile audio.

When connected to DFSI Console, don't respont to call alerts, radio checks...like a subscriber would.

Conventional:

Increased MDC List capability from 255 to 65535.

Added OTAR registered field to the radio information menu screen.

Added additional "Busy Channel Lockout" Options

Added the ability to "Enable/Disable User Selectable TX Tones" on a Zone by Zone bases.

Nuisance deleted channels did not recover correctly

Bug Fixes

General:

Portable to Mobile Cloning Failure Can't exit sleep on STEK display Channel Soft Stop bug on radios with continuous channel knob Rekey request error reporting

Portable:

Backlight stuck off Potential lockup issues

Mobile:

System test options are out of sync

Mobile w/ HHCH loading large list screen inconsistency Initial accessory input state Accessory input mute

RCH:

Won't go into configuration menu

Conventional:

Vote scan fails on incorrect code guard Multiple vote scan groups didn't work Inconsistent results when reading CxCSS picklist

Trunking:

Site alias display line not working Encrypted transmission received without proper key Encryption Icon delay

... and various more

KNG Firmware Releases

Release KNG-Pxxx Portables Ver. 5.2.0a KNG-Mxxx Mobiles Ver. 5.2.0a

Minimum Neovision Editor KAA0732 Ver. 2.2.1 Neovision ASK Editor KAA0735 Ver. 2.2.1

Features

GENERAL

- This is a portable and mobile build based off of production release 5.2.0 that reduces the boot-time of the radio.
- The firmware for the mobile control heads has not been re-compiled for this release.
- Control heads interfacing with a mobile loaded with 5.2.0a firmware should use version 5.2.0

This release is a point release to shorten the boot time.

The BSP has changed from 5.2.0, but not the ARM or the DSP.

The portable and the mobile firmware has been compiled using the updated BSP,

but the firmware for the control heads had not been re-compiled and instead uses the images from 5.2.0.

Therefore there are no images or source code for the RCH or the HCH for this release.

KNG Firmware Releases

Release KNG-Pxxx Portables Ver. 5.2.0
KNG-Mxxx Mobiles Ver. 5.2.0
KAA0660 Remote Control Head Ver. 5.2.0
KAA0670 Handheld Control Head Ver. 5.2.0
Minimum Neovision Editor KAA0732 Ver. 2.1.0

Neovision ASK Editor KAA0735 Ver. 2.1.0

Features

Conventional:

Notify user of RX-only emergency channel

Autoscan

Channel scan list edit button rework

DES-XL

Disable code guard during user squelch adjust

Encryption icon shown constantly with non-encrypted RX

Global squelch adjust option

Hide designated channels from menu selection

Modify nuisance delete restoration criteria

Modify nuisance delete so TX does not cancel deleted channels

Option to disable scanner penalty

Provide long-press option for send signal

Talkback improvements

Zone scan without channel scan message

P25 Trunking:

RX-only monitor

Remote Control Head:

Show head # in info menu

Handheld Control Head:

Channel select using numeric keypad Master volume control of RCH volume

Portable:

Add display timeout timer
External emergency should use orange button programming
Make toggle switch sense programmable
Minimum volume level option
P800: power select for 700MHz band

Mobile:

Add programmable control head baud-rate
Add separate master volume control parameter for RCH control
Change accessory serial port to 9600 baud
LCD brightness setting
Mobile backlight activated by any button press
Output lines should support 4 control heads
Powerup whenever power is applied
Store control head baud rate elsewhere
User selectable I/O disable

DFSI:

Channel base index option Formal standard conformance Relay unit ID information

FSI:

AMBE audio

Miscellaneous:

Add engineering options parameter
Add git commit hash to version menu
Channel increment/decrement using up/down keys in channel add menu
Date and time display line
Display build date in versions menu
Improve persistent settings
Man down emergency
Optimize GLTimers
Remove anti-clone feature from parameters download
Support alphanumeric versioning
Unit ID "phone book" log

Bug Fixes

Conventional:

Channel parameters not cloned - Hidden and Scan Penalization Auto vote scan + display selected channel only Backlight ignores settings when assigned to side button Cloning does not work

DES-CFB key fail failure

DES-CFB with DTMF ANI causes the radio to stick in transmit

DES-XL doesn't display key

Emergency alarm revert channel

Emergency call not properly cancelled

Enabling scan while receiving can remove you from the active channel

GPS transmit breaks emergency alarm

Improve zone scan UI

Legacy cloning issues

Live dial won't work after quick PTT presses

MDC emergency alarm with hot mic

MDC emergency revert channel

Mixed mode talkback status is not cleared on channel change

Mobile I/O emergency doesn't always cancel

P25 emergency hot mic cannot be cancelled

Portable inhibit/uninhibit response speed

Portable minimum volume threshold is not audible

Secure TX after key fail

Surveillance mode is not saved when toggled through menu

Unit call logs

Unit call with analog TX mode

Update command channel parameters

Voice mute disregards RX code guard

Zone scan message

P25 Trunking:

Certain mobile I/O states don't work when in priority or dual-mode scan

Dual mode scan lock-up

Failsoft does not work

GPS system test menu doesn't update

Priority nuisance channels not cleared on channel change

Radios don't data register if DMS active

Scan shows wrong talkgroup

Talkback from RX-only trunking causes lock-up

Unit call fails on Harris systems

Voice mute icon does not show up on control heads

Handheld Control Head:

Can't add channel to command zone

Dual Mode Scan:

Receiving mixed-mode digital blanks screen

Mobile:

I/O disable should drop lines inactive

DFSI:

IDA reporting issues with out of range trunking
Radio will not fully connect to a console when preset to a trunking
talkgroup

Respond to voter commands Retransmission issues

FSI:

Disconnect causes incorrect transmit behavior

FIPSCOM:

App erasure

OTAR:

Rekey KMM error

Invalid message number prevents delayed acknowledgement

KMM received while sending can cause a lockup

No response on invalid DES MAC

Rekey keyset limit is 7

SLN 0 causes the FIPSCOM to be unresponsive

Miscellaneous:

BSP maintenance version is not shown Build date not displaying correctly

CTCSS RX qualification fails

Display backlight

Key entries do not default properly

Non-consecutive zones broken in dual mode and trunking priority scan

Radio does not fully power down

Should DES-XL encryption work on digital channels?

Soft power down bugs

Transmit inhibit feature

KNG Firmware Releases

Release KNG-Pxxx Portables Ver. 5.1.0
KNG-Mxxx Mobiles Ver. 5.1.0
KAA0660 Remote Control Head Ver. 5.1.0
KAA0670 Handheld Control Head Ver. 5.1.0

Minimum Neovision Editor KAA0732 Ver. 2.0.2 Neovision ASK Editor KAA0735 Ver. 2.0.0

Features

Conventional:

DTMF live dial keypad programming
Add priority scan period to keypad programming
TX on last voted channel option
Vote during repeater hang time
PTT-ID disable timer
Emergency alarm using non-MDC analog signaling
Securenet DES CFB
Provide TX power options

P25 Trunking:

Unify crypto UI with conventional
Attempt initial sync detection after phase wrapping for Phase 1 signaling
Ultra Narrow Channel Filter
Display site name when in intra-WACN roaming
Dynamic regrouping encryption
Priority scan beep
Message update

Remote Control Head

Support more than 2 remote control heads Monitor TX audio on non-transmitting RCHs

Miscellaneous:

Index instead of copy for command zone channels Allow non-consecutive channels and zones Display key when TX secure selected Non-infinite key retention option Added up to 48 crypto keys Added Command zone channel assignment

Bug Fixes

Conventional:

Vote scan w/o code guard fails to vote
Improvement to Enhanced scan
Noise burst on digital encrypted scan RX
Issues using DES-CFB with an incompatible FIPSCOM
Mixed mode emergency or call alert causes unresponsive state
Mixed mode talkback won't work after receiving digital
Incorrect busy channel lockout when scan active
Unit call not working properly
Call alert lockup under certain conditions
MDC emergency call lockup
MDC emergency alarm lockup
MDC radio check lockup
Lock-up when emergency alarm cancelled on RX-only channel

UID not displayed during emergency alarm
Emergency alarm behaves differently in Mixed and Analog modes
Incorrectly decrypted audio not muted
Vote scan does not fully qualify carrier
Vote scan degrades audio
Legacy cloning improvements
Picklists do not clone from either a DPHCMD or a GPHCMD over to KNG
Off-hook scan doesn't work correctly

P25 Trunking:

Potential of missing calls

TDMA unit calls fail when radios are on different sites

Potential of not hearing all 3 permit tone beeps

Reduce time taken for roaming RSSI check

Lower RSSI measuring time for all bands

Emergency Hot mic audio

DMS scan causes RX analog to indicate RX secure

Priority on Selected Icon's don't reflect inbound traffic

Emergency operation on composite control channels

Harris NCR system compatibility Improvements

TGID display not updating when busy expires in selected talkback

Remote Control Head:

Pressing PTT on one control head enables transmit for all control heads

Handheld Control Head:

Highlighted softkey moves randomly after TX

Dual Mode Scan

Potential inability to transmit when DMS is on Dual mode scan edit list uses index as channel

Portable:

Rapid cycling of on-off knob makes radio unresponsive

Mobile:

Doesn't reset after writing parameters TX noise due to display backlight adjustments M800: always displays "source fault clear" on power up

Miscellaneous:

Cannot reference channel 1 UI lockup after downloading parameters parm loading abort due to channel ID list entry Radio displays keyfail with keys loaded OTAR - false reports of UKEK not loaded into radio KNG-PxxxS to KNG-xxxx cloning always fails GPHCMD fails CMD group clone to KNG When in Site menus, radio will not transmit

KNG Firmware Releases

Release KNG-Pxxx Portables Ver. 5.0.0

KNG-Mxxx Mobiles Ver. 5.0.0

KAA0660 Remote Control Head Ver. 5.0.0

KAA0670 Handheld Control Head Ver. 5.0.0

Minimum Neovision Editor KAA0732 Ver. 2.0.0 Neovision ASK Editor KAA0735 Ver. 2.0.0

Features

TDMA Support

TDMA: group regroup & dynamic regroup P25 Trunking: OTAP read enhancement

P25 Trunking: Static SNDCP Data Registration

P25 Trunking: Forced System Reset
P25 Trunking: Enhanced Roaming
P25 Trunking: Roaming Notifications
P25 Trunking: Failsoft by Personality

Conventional: Add "radio name" display choice to programming/cloning

Add ability to display radio name/alias instead of UID

Make low battery warnings selectable backlight toggle incompatibility
Make RCE crypto work with TDMA

Add trunked DTMF all-call alert to sentinel operation

Return to last active RX channel when exiting scan

Single button channel scan + priority scan

Make secure LED operation the same for trunking as it is for conventional After Keypad select of 'Backlight off', backlight continues to operate for key presses

Automatically translate trunked call alerts for multiple unit IDs to DTMF alerts Add AlgID + KeyID for RX of key not in alias table

Keypad programming should allow deletion of command zones

Picklist cloning should include Two-Tone, MDC and DTMF lists

Add call alert UI support on the HHCH

Change MDC encode features to allow hex input

Add MDC inhibit & uninhibit encode operation

Add HHCH speaker parameters to keypad programming

Conventional P25 call alert support for group addresses

MDC call alert & voice selective call encode Display useful message if Warm-Start store key fails

Bug Fixes

Incorrect priority scan indicator P25 Trunking: Lockup if improperly programmed P25 Trunking: busy UI state not updating properly P25 Trunking: Group Regrouping Denies in Australia P25 Trunking: Site Search soft key assignments incorrect P25 Trunking: dual mode scan nuisance delete bugs P25 Trunking: site affilliation display incorrect P25 Trunking: False PTT OTAR: KMM responses aren't sent while scanning Dual Mode Scan: Lockup when turning scan off/on while receiving/transmitting Dual Mode Scan: Speed up conventional scanning Dual Mode Scan: Errors when removing all trunking channels from list Conventional: Scan lockup Conventional: scanning quits Conventional: channel busy fails when set to status symbol Conventional: RX is interrupted by unit call selection Conventional: priority conv scan lockup Conventional: TX 2-tone w/ tone B = 0 causes TX lockup Conventional: 2-tone TX menu item cut-off on portable Conventional: priority scan failure Conventional: PRI 1 takes too long to override PRI 2 Conventional: secure strapped revert emergency call keyfail lockup Conventional: scan deactivation causes icons to stick Conventional: busy channel lockout fails for digital Conventional: encryption LED fails during scan Conventional: NAC picklist shows empty entries Conventional: simultaneous cloning causes lockups Conventional: cloning failure causes lockup Conventional: keypad programming prohibits TGID=0 Conventional: zone scan fails on non-sequential zones Conventional: RX mode icon wrong if RX dequalifies System calls causing mobile sluggishness Flashing the radio with all 5 images causes splash screen to stick Mobile menu can get stuck Busy channel lockout (carrier) failure with active channel SLN=0 causes various problems GPS coordinates not displayed properly TX secure behaves erratically P800 always aligns RSSI scale to the same number Sentinel DTMF ID of 0000 results in indefinite tx Manual two-tone signaling causes transmit stick on the mobile Conventional data messages do not check receive mode

Offhook scan enable should be made independent of the offhook monitor option Disply of my own UID is not always correct

Radio goes into Monitor Mode inadvertently

If System Priority and Zone Priority point to the same channel, Priority doesn't work

MDC signal causes transmit stick

Failed P25 call alert "OK" button leaves you in a menu you cannot escape from Digital RX causes unqualified UI indications after end of message Voice mute icon does not always display for automatic voice mute Backlight during scan comes on more often than it should Enabling conventional scan and dual mode scan at same time Priority scan fails if Pri1 is system-based Encryption will do a "Key Fail" with tone on first PTT only

KNG Firmware Releases

Release Portable/ Mobile 4.6.2 Control Head/ HCH 4.6.2

Minimum Neovision Editor Rev. 1.5.0

Features

P25 Trunking - Dynamic Regroup Display MDC ID's as decimal as an option Support MDC group, fleet & wildcard addressing Support long block MDC Enable ID alias lookup for MDC signaling Stop premature low battery during TX with IS pack No keypad editing lockout for call list picklist Rapid scroll feature needs to be added to trunking Add Clear Tx Beep to Mixed Mode Analog Tx Add mobile accessory output option for transmit indication Automatic voice mute per-channel Add alternate display line options Talkaround optionally applies on a per-channel basis Allow command zone channel add feature to work with trunking channels Add a way to monitor GPS statistics through the USB DMS: Speed up OOR scanning; implement OOR icon Add support for Motorola wide pulse modulation Make voice mute operation per-channel instead of per-zone Add ability to rapidly scroll through long menu Remember last channel of each zone during zone change Improve AMBE noise cancellation Add use group key for unit call and make it default to true

Beep when Priority goes active

Portable: Soft Power Down

Portable: Toggle Switch Zone Select

Bug Fixes

Correct MDC voice mute operation to account for long block packets

Green LED operation is not consistent in Voice Mute

MDC ANI can cause ID = 0 display if MDC voice mute is enabled for the ANI ID

MDC Unit ID reappears after Monitor Mode is changed from open

ID display during scan hold does not work if MDC is sent at end of TX

P25 Trnk - Priority on Selected not initialized after download

P25 Trnk - Unit Call denied by FNE

P25 Trk - Unit Call Accept button doesn't work

P25 Trk - Radio displays "Emergency" when transmitting

P25 Trk - Dual Mode Scan lockup

P25 Trk: Cassidian systems cause radio to group affiliate to 0

P25 Trk: TG busy indication doesn't work on older Harris systems

OTAR: Deleting last TEK in radio causes response KMM to fail

OTAR: Radio doesn't always deregister during scan

Incorrect KEK can cause OTAR Registration to fail when it shouldn't

Off-hook settings for Scan depends on Off-hook setting for Monitor

Priority scan on digital channel can cause infinite scan hold time

Powerup zone should be last zone not toggle switch zone

A radio with Talkback Scan enabled can transmit a TGID of 65535

RXA with code guard causes RXA Icon to stick until channel changed or power cycle

A new channel added through keypad programming doesn't show up until a zone cycle Keypad programming display lines can be navigated even when locked out

Mobile backlight only goes from off to on if the soft keys are pressed

Keypad programming unit call alias cuts off on the mobile and control head display

Toggling channel scan disables secure transmit Key fail display prevents rapid channel changes

Zone scan cannot be changed while scanning

Smart-mic backlight will not turn-on

P25 Trk: Harris County/City of Houston zone overlap issue

DMS: Out of range radio won't scan to conventional channels

DMS List Edit - View option doesn't display some channels

Toggle switches can be ignored during unit call RX

Release Portable/ Mobile 4.5.0

Control Head 4.5.0

Minimum Neovision Editor Rev. 1.4.19

Support for Mobile GPS option Add

Add Home channel button assignment

```
Add
       Channel Number + Zone Label display line selection
Add
       Dual Mode Scan List user selection
       DTMF decode on digital channels (Voice Mute)
Add
       Mobile I/O support for COR on trunked systems
Add
       Mobile display dimmer
Add
       Trunking wide area single site support
Add
Add
       Allow Vote scan list selection
Enhance Additional keypad programming functions
Enhance Show/Hide own Unit ID when Unit ID is programmed as display item
Enhance Allow squelch adjustment per channel
Enhance Legacy cloning operation
Enhance Expanded two-tone notification timing
Enhance Trunked preferred site operation
Enhance OTAR: Multiple group RSI support
Fix
       Changed preset squelch value to allow audio at lower signal level
Fix
       Allow Tx/Rx while in menu operation
Release Portable/ Mobile
                           4.4.0
       Control Head
                           4.4.0
Minimum Neovision Editor Rev.
                            1.4.17
       MDC Support
Add
Add
       Command Zone Operation
Add
         Messaging Capabilities
         Text Messaging
         User Status Messaging
Add
       Paging and Call Alert
         Two-Tone Paging
         DTMF Paging
         MDC1200 Paging
         Call Alert Paging
         Radio Check
Add
       Radio Inhibit/Uninhibit
Add
       Enhanced Lockout Feature Set
Add
       Auxiliary Input/Output Functions for mobile
  ______
Release Portable/ Mobile
                            4.02.16
```

Control Head 4.02.11

Add Add Add Add Fix Fix Fix operati	Disable battery monitor during transmit OTAR MAC calculation interference with conventional channel encryption	
Release	Portable/ Mobile	
	Control Head	4.02.11
Require	d Neovision Editor	1.4.12
Fix Site trunking to wide area trunking transition		
Release	Portable/ Mobile Control Head	4.02.13 4.02.11
Required Neovision Editor 1.4.12		
Add Fix Fix	<pre>ix Trunking OTAR: Reestablish key conditions once radio is rekeyed ix Minnesota Trunking: Inhibit after an emergency fix</pre>	
Release 4.02.12 Required Neovision Editor 1.4.8		
Add wait/add identifiers if not present during control channel validation Enhance Status Update Enhancements Fix Radio displays DSP Error 1 after NeoVision download/power cycle. Fix Trunking Scan Lockup Fix Harris P25 Trunking: OTAR Registration		
Release 4.02.08 Required Neovision Editor 1.4.7		

Minimum Neovision Editor Rev. 1.4.15

Add Keyset Select assigned in menu and button Add DSP: Add eeprom protection Mobile: Add backlight level menu settings Add Add P25 Trunking Emergency Call Cancel Add Trunking Unit Call without availability check (Harris) Add Trunking OTAR Option ability Mobile: Add fixed MENU softkey on right side of display Add Mobile soft button indication that feature is on Enhance Fix Autoscan UI issue Trunking Emergency Alarm use emergency group instead of current working Fix group Fix Trunking early receive LED not turning off in all cases P25 trunking group call audio opens slow Fix P25 Trunking: Source ID of zero slows audio open speeds of unit call and Fix group re-grouping calls P25 Trunking: Group call unit ID of 0 displayed Fix Fix Unwanted transmission after power-on with PTT held. Fix P25 Trunking: earlier LED illumination for group calls Fix P800 and M800 improve RX hum and noise.