
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

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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 affiliation 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

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

Add Support for Mobile GPS option
Add Home channel button assignment
Add Channel Number + Zone Label display line selection
Add Dual Mode Scan List user selection
Add 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 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

Add MDC Support
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

Minimum Neovision Editor Rev. 1.4.15

Add Display 'Call Alert Successful message
Add P25 Trunk Unit Call messages
Add Conventional scan preamble for TSBK ISPs and Data
Add RCII Diagnostic Send ISP capabilities
Add Allow RX audio while in sub-menus
Fix Conventional emergency channel selection
Fix Talkback encryption key
Fix Disable battery monitor during transmit
Fix OTAR MAC calculation interference with conventional channel encryption operation

Release Portable/ Mobile 4.02.15
Control Head 4.02.11

Required Neovision Editor 1.4.12

Fix Site trunking to wide area trunking transition

Release Portable/ Mobile 4.02.13
Control Head 4.02.11

Required Neovision Editor 1.4.12

Add Conventional OTAR capabilities
Fix Trunking OTAR: Reestablish key conditions once radio is rekeyed
Fix Minnesota Trunking: Inhibit after an emergency fix

Release 4.02.12
Required Neovision Editor 1.4.8

Add 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

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