

armel /
uv-k5-firmware-custom

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armel



v4.0



ba5257f



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F4HWN v4.0

Latest

FLASH WITH A BROWSER

I suggest you choose one of the following 4 editions:

 **Bandscope edition (without FM broadcast support)**

 **Broadcast edition (without bandscope support)**

 **RescueOps edition, dedicated to first responders (without Bandscope and Broadcast)**

 **Basic edition, with Bandscope (without channel name display and parameter saving) and Broadcast FM, but**

lacking the following features: Air Copy, VOX, Mic Bar, Narrower (SetNFM), Contrast (SetCtr), Resume Mode, and Mute

📖 Up to date manual available in a [Wiki section](#) 📖

★ Dedicated CHIRP driver available as an attachment ★

Changes

🇺🇸 EN

- Refactoring and memory optimization (~175 bytes),
- Fixed a bug related to the use of custom AES keys (Issue [#363](#)),
- Improved Bandscope (Issue [#322](#), thanks John),
- Enhanced Resume Mode: auto restart in Scan, Bandscope or FM Broadcast mode,
- Added MUTE action to disable sound (BK4819 & BK1080),
- Re-enabled the PMR band plan,
- Re-enabled the FR/GMRS/MURS band plan.

🇫🇷 FR

- Refactoring et optimisation de la mémoire (~ 175 octets),
- Correction d'un bug concernant l'utilisation de clés AES personnalisées (Issue [#363](#)),
- Amélioration du Bandscope (Issue [#322](#), merci John),
- Amélioration du Mode Resume: redémarrage auto en mode Scan, Bandscope ou FM Broadcast,
- Ajout de l'action MUTE pour couper le son (BK4819 & BK1080),
- Réactivation du plan de bandes PMR,
- Réactivation du plan de bandes FR/GMRS/MURS,

Bandscope edition, 15 bytes left.

Broadcast edition, 1 759 bytes left.

RescueOps edition, 3 703 bytes left.

Basic edition, 51 bytes left.

Enjoy,

Armel F4HWN.

💡 For Quansheng K5 users with an SA818 based hotspot, special *.sa818.bin versions are available in the `archive` directory. These versions avoid the squelch tail. **However, you must first activate Close Tail Command on the SA818.**

▼ Assets 7

 [f4hwn.bandscope.packed.v4.0.bin](#)

60 KB

2 weeks ago

 [f4hwn.basic.packed.v4.0.bin](#)

60 KB

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 [f4hwn.broadcast.packed.v4.0.bin](#)

58.3 KB

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 [Source code](#) (zip)

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 [Source code](#) (tar.gz)

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 12



6 16 people reacted

Dec 25, 2024



armel



v3.9



d365896



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F4HWN v3.9

 **FLASH WITH A BROWSER** 

I suggest you choose one of the following 3 editions:

Bandscope version (without FM broadcast support)

Broadcast version (without bandscope support)

RescueOps version (without Bandscope and Broadcast)

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available as an attachment ★

Changes

 EN

- Refactoring and memory optimization,
- Improved scan recovery if scan range is selected (Fabrice),
- Set TxLock to ON for all channels if F Lock DISABLE ALL is selected [#328](#),
- Added gauges to some delay settings (ergonomic improvement),
- Fixed channel name overlap on spectrum analyzer [#309](#) (BandScope),
- Fixed battery overlap on status bar (RescueOps),
- POWER HIGH and REMOVE OFFSET actions should be reset when changing channel [#326](#) (RescueOps),
- NOAA menu moved down and renamed SetNWR (RescueOps). Menu positions 1 to 68 are therefore the same for all 3 firmware editions.

 FR

- Refactoring et optimisation de la mémoire,
- Amélioration de la reprise du Scan si Scan Range est sélectionné,
- TxLock sur ON pour tous les canaux si F Lock DISABLE ALL est sélectionné [#328](#),
- Ajout de jauges à certains réglages de délai (amélioration ergonomique),
- Correction du chevauchement des noms de canaux sur le spectre [#309](#)

(Bandscope),

- Correction du chevauchement de la (tension de la) batterie sur la barre d'état (RescueOps),
- Les actions POWER HIGH et REMOVE OFFSET sont réinitialisées lors d'un changement de canal [#326](#),
- Le menu NOAA a été déplacé vers le bas et renommé SetNWR (les positions de menu 1 à 68 sont donc les mêmes pour les 3 éditions du firmware).

Bandscope version, 43 bytes left.

Broadcast version, 1 851 bytes left.

RescueOps version, 3 563 bytes left.

Enjoy,

Armel F4HWN.

💡 For Quansheng K5 users with an SA818 based hotspot, special *.sa818.bin versions are available in the [archive](#) directory. These versions avoid the squelch tail. **However, you must first activate Close Tail Command on the SA818.**

► Assets 6



👍 8

😊 1

🎉 3

❤️ 1

🚀 1

👁️ 1

10 people reacted

Dec 1, 2024



armel



v3.8



40b3312



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F4HWN v3.8



FLASH WITH A BROWSER



I suggest you choose one of the following 3 versions:



Bandscope version (without FM broadcast support)



Broadcast version (without bandscope support)



RescueOps version (without Bandscope and Broadcast)



Up to date manual available in a [Wiki section](#) 



Dedicated CHIRP driver available as an attachment 

Changes



EN

- Refactoring and memory optimization,
- Fixed a bug in the SysInf menu that displayed the wrong firmware edition (thank you Ben FourFoursix),
- Fixed a bug with scan resume after restarting in AirCopy mode (thank you wen24o2),
- The SetGui Tiny option now works with the Main Only display mode,
- Improved deep sleep wake-up (pressing a key no longer triggers an action but simply wakes the device, thank you F5AAJ),
- Reduced screen blinking before deep sleep from 30 seconds to 10 seconds,
- Enhanced RescueOps mode:
 - Removed scan list information on the right (unnecessary),
 - Replaced the reversed "R" with "RO" (for Rescue Ops) in the status bar,
 - Main Only is no longer the only display mode,
 - Added a new action, POWER HIGH, to set TX power to HIGH,
 - Added a new action, REMOVE OFFSET, to remove OFFSET if defined,
 - Long press on the F key now locks/unlocks all keys,
 - Long press on A/B toggles the main VFO.



FR

- Refactoring et optimisation de la mémoire,
- Correctif d'un bug dans le menu SysInf qui renvoyait la mauvaise édition du firmware (merci Ben FourFoursix),
- Correctif d'un bug avec la reprise du scan lors d'un redémarrage en mode AirCopy (merci wen24o2),

- SetGui Tiny fonctionne maintenant aussi avec l'affichage Main Only,
- Amélioration de la sortie du sommeil profond (un appui sur une touche n'a pas d'effet, mais réveil juste le poste, merci Michel F5AAJ),
- Diminution du clignotement de l'écran avant la mise en veille profonde de 30s à 10s,
- Amélioration du mode RescueOps:
 - Suppression des informations de la liste de balayage sur la droite (inutile),
 - Remplacement du R inversé par RO (pour Rescue Ops) dans la barre de status,
 - Main Only n'est plus le seul mode d'affichage,
 - Ajout d'une nouvelle action POWER HIGH pour mettre la puissance TX à HIGH,
 - Ajout d'une nouvelle action REMOVE OFFSET pour supprimer OFFSET si défini,
 - Une pression longue sur la touche F active/désactive le verrouillage de toutes les touches,
 - Une pression longue sur A/B change le VFO principal.

 For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 191 bytes left.

Broadcast version, 1 999 bytes left.

RescueOps version, 3 827 bytes left.

Enjoy,

Armel F4HWN.

 For Quansheng K5 users with an SA818 based hotspot, special *.sa818.bin versions are available in the `archive` directory. These versions avoid the squelch tail. **However, you must first activate Close Tail Command on the SA818.**

► Assets 6



12



4



1



1

16 people reacted

Nov 14, 2024



armel



v3.7



1d08aea



Compare ▼

F4HWN v3.7



FLASH WITH A BROWSER



I suggest you choose one of the following two versions:

Bandscope version (without FM broadcast support)

Broadcast version (without bandscope support)

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy, new Bandscope evolutions since v3.0 and Scan resume were been removed...

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new Bandscope evolutions since v3.0 and Scan resume)

New version dedicated to rescue professionals !

RescueOps version (without Bandscope and Broadcast)

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available as an attachment ★

Changes

- Refactoring and memory optimization,
- Fixed automatic restart of scan, if launched from a shortcut,
- Fixed a bug on the spectrum analyzer (thanks [@fagci](#)),
- Fixed a bug in the position of the F Lock menu if hidden menus are activated,
- Improved keyboard frequency entry,
- New RescueOps version added,

- Improved compilation tools.

 For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 231 bytes left.

Broadcast version, 2 095 bytes left.

Voxless version, 27 bytes left.

RescueOps version, 4 119 bytes left.

Enjoy,

Armel F4HWN.

 For Quansheng K5 users with an SA818 based hotspot, special *.sa818.bin versions are available in the [archive](#) directory. These versions avoid the squelch tail. **However, you must first activate Close Tail Command on the SA818.**

Contributors



fagci

► Assets 7



3



2

5 people reacted

Nov 5, 2024



armel



v3.6



a5f1383



Compare ▼

F4HWN v3.6



FLASH WITH A BROWSER



I suggest you choose one of the following two versions:



Bandscope version (without FM broadcast support)



Broadcast version (without bandscope support)

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy, new Bandscope evolutions since v3.0 and Scan resume were been removed...



Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new Bandscope evolutions since v3.0 and Scan resume)



Up to date manual available in a [Wiki section](#) 



Dedicated CHIRP driver available as an attachment 

Changes

- Refactoring and memory optimization,
- 1:5 option added to BatSav menu (32/68),
- Improved SetOff (67/68) function now indexed on BatSav settings,
- Improve keyboard frequency input,
- Added automatic scan restart on transceiver startup,
- Added SetNFM menu (68/68): Narrow / Narrower
- Improved compilation tools.



For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 251 bytes left.

Broadcast version, 2 083 bytes left.

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new Bandscope evolutions since v3.0 and Scan resume), 31 bytes left.

Enjoy,

Armel F4HWN.

💡 For Quansheng K5 users with an SA818 based hotspot, special *.sa818.bin versions are available in the `archive` directory. These versions avoid the squelch tail. **However, you must first activate Close Tail Command on the SA818.**

► **Assets** 6



8



3

10 people reacted

Oct 12, 2024



armel



v3.5



0a7e836



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F4HWN v3.5



FLASH WITH A BROWSER



I suggest you choose one of the following two versions:



Bandscope version (without FM broadcast support)



Broadcast version (without bandscope support)

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode were been removed...

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode)

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available as an attachment ★

Changes

- Refactoring and memory optimization,
- Improved SetOff function,
 - Fix mirror effect bug,
 - Reduce screen flashing before standby,
 - Reduce LED flashing during standby,
 - SetOff disabled if in AirCopy mode,
 - SetOff initialized to 1h by default in case of RESET,
- Improved ScnRev function,
 - CARRIER can now be set from 250ms to 20s (in 250ms steps),
- KeyLck function improved,
 - Auto lock is now adjustable from 15s to 10m (in 15s steps),
- Fixed NOAA compilation error (merci Justin White, PR [#271](#)),
- Fixed a bug concerning the writing of compilation parameters (impacting Chirp).

 For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 531 bytes left.

Broadcast version, 2 583 bytes left.

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode), 371 bytes left.

Enjoy,

Armel F4HWN.



7



1

8 people reacted

Sep 29, 2024



armel



v3.4



cec4ca6



Compare



F4HWN v3.4

FLASH WITH A BROWSER

I suggest you choose one of the following two versions:

 **Bandscope version (without FM broadcast support)**

 **Broadcast version (without bandscope support)**

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode were been removed...

 **Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode)**

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available as an attachment ★

Changes

- Memory refactoring and optimization,
- Fixed a bug in the Air Copy function if the keyboard was previously locked (thanks Julien),
- Removed of the Tx200, Tx350 and Tx500 menus (obsolete since the addition of TxLock),
- Improved ScnRev menu and added Fast, Slow, Stop and Timeout options (adjustable from 5 seconds to 2 minutes, in 5-second steps).
- Added of the SetOff menu, for sleep mode (not available with Bandscope & Broadcast aka Voxless version...).

 For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 531 bytes left.

Broadcast version, 2 603 bytes left.

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy, new bandscope evolutions since v3.0 and new deep sleep mode), 395 bytes left.

Enjoy,

Armel F4HWN.

► Assets 6

  12  2  5 16 people reacted

Aug 20, 2024

 armel  v3.3  f101c23  [Compare](#) ▼

F4HWN v3.3

 **FLASH WITH A BROWSER** 

I suggest you choose one of the following two versions:

 **Bandscope version (without FM broadcast support)**



Broadcast version (without bandscope support)

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0 were been removed...



Bandscope & Broadcast version (without VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0)

📖 Up to date manual available in a [Wiki section](#) 📖

★ Dedicated CHIRP driver available as an attachment and on [uv-k5-chirp-driver](#) ★

Changes

- Code refactoring and memory optimisation,
- Added SetTmr menu to enable or disable RX and TX timers in the status bar,
- Improved Audio Bar,
- Improved Air Copy.

📖 For explanations of the Air Copy feature, see [wiki](#) 📖

Bandscope version, 751 bytes left (with Air Copy).

Broadcast version, 2 575 bytes left (with Air Copy).

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0), 255 bytes left.

Enjoy,

Armel F4HWN.

► Assets 6



11



3



5



7



1

16 people reacted

Aug 8, 2024



armel



v3.2



930c775



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F4HWN v3.2

FLASH WITH A BROWSER

I suggest you choose one of the following two versions:

 **Bandscope version (without FM broadcast support)**

 **Broadcast version (without bandscope support)**

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0 were been removed...

 **Bandscope & Broadcast version (without VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0)**

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available as an attachment and on [uv-k5-chirp-driver](#) ★

Changes

- Some minor bug fixes,
- Some memory optimization,

- Refactoring of the FLock menu and add new TXLock menu,
- Improved memory channel exclusion during a scan (now works with all scan list),
- Reset menu refactoring,
- Refactoring and activation of the Air Copy function,
- Some compilation options added.

 For explanations of the F Lock menu and the new TX Lock menu, see [wiki](#) 

 For explanations of the Air Copy feature, see [wiki](#) 

Bandscope version, 2 391 bytes left (739 with Air Copy).

Broadcast version, 4 203 bytes left (2 759 with Air Copy).

Bandscope & Broadcast version (without VOX, Audio bar, Air Copy support and new bandscope evolutions since v3.0), 27 bytes left.

Enjoy,

Armel F4HWN.

► Assets 6



8



1

9 people reacted

Jul 21, 2024



armel



v3.1



cb6c614

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F4HWN v3.1

FLASH WITH A BROWSER

I suggest you choose one of the following two versions:

 **Bandscope version (without FM broadcast support)**

 **Broadcast version (without bandscope**

support)

Last chance... if you can't decide between these two versions, you can always take the version below. It retains support for Broadcast FM and Bandscope. But VOX, 1750Hz and Microphone / Audio bar support were been removed...

Bandscope & Broadcast version (without VOX, 1750Hz and Mic/Audio bar support)

 AFTER THIS UPDATE, I SUGGEST YOU CHECK YOUR MEMORY CHANNELS AND SPECIFICALLY THE POWER AND BUSYCL COLUMNS, USING NEW CHIRP DRIVER IN ATTACHMENT

 Up to date manual available in a [Wiki section](#) 

★ Dedicated CHIRP driver available at [uv-k5-chirp-driver](#) ★

Changes

- Fix issue [#173](#) (changing the memory channel while RX)
- Fix issue [#180](#) (GMRS_FRS_MURS missing included frequencies)
- Fix issue [#176](#) (Wide/Narrow Toggle during Reception on Secondary VFO)
- Fix issue [#117](#) (Eeprom written to twice when manual scanning)
- Revert Fix issue [#152](#) (spectrum: don't check blacklistFreqs if unset)
- Improve F-LOCK
- Improve PonMsg [#27](#)
- Improve Power (add L1 to L5 and USER)
- Rename SetLow to SetPwr (to set USER power)
- Add save of some spectrum parameters
- Add 3500mAh support (special thanks to Yannick F4JFO who offer me this battery)
- Add compile options

Bandscope version, 2 387 bytes left.

Broadcast version, 4 251 bytes left.

Bandscope & Broadcast version (without VOX, 1750Hz and Audio bare support), 31 bytes left.

Enjoy,

Armel F4HWN.

► **Assets** 6



9



1



4



2



1

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