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QuanSheng UV-K5 Custom Firmware, August 2026: Generations, Active Forks and Flashing Tools

State of Quansheng UV-K5 custom firmware as of August 2026: three hardware generations (V1 DP32G030, V2 PY32F030, V3 PY32F071) that are not firmware-compatible; the active line is F4HWN Fusion v5.9.0 (14 Aug 2026) for V3/UV-K1, while V1 users choose between frozen egzumer v0.22, F4HWN v4.3, and the new VUURWERK v1.5.0, with K5TOOL as the recovery path.

14 min read · 19 sources

F4HWN Fusion | Quansheng | SDR | UV-K5 | VUURWERK | custom firmware | egzumer | firmware flashing

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The Quansheng UV-K5 is the most heavily modded handheld radio in amateur radio: a ~US$30 dual-band HT whose stock firmware community developers reverse-engineered and rebuilt in 2023, spawning a family tree of open-source builds that stretches into actively developed releases this month. As of 20 August 2026 the scene has split along hardware lines: the original V1 radios run a frozen classic (egzumer v0.22) or the newer VUURWERK v1.5.0, while the current V3 hardware gets a steady stream of updates from F4HWN's Fusion edition, whose v5.9.0 shipped on 14 August 2026.

v5.9.0	v1.5.0	v0.22	18–1300	61,440
F4HWN Fusion (V3)	VUURWERK (V1)	egzumer (V1)	RX range (MHz)	Flash ceiling (bytes)
14 Aug 2026	4 Jul 2026	frozen 28 Jan 2024	vs 50–520 stock	64 KB MCU

The state of play

Three firmware lines matter in 2026, and choosing between them is decided almost entirely by which hardware revision you own:

- **F4HWN Fusion** (armel/uv-k1-k5v3-firmware-custom) — the only actively developed line, for UV-K5 V3 and UV-K1 radios built on the PY32F071 MCU. v5.9.0, the current release, came out six days ago; v5.5.0 landed in May and v5.6.0/v5.6.1 in June 2026[2][3].
- **F4HWN v4.3** (armel/uv-k5-firmware-custom) — the last release of the same author's fork for the original V1 (DP32G030) radios, published 2 December 2025[4].
- **VUURWERK** (Tokeloshe/vuurwerk-firmware) — a new single-developer fork built on egzumer, V1-only, whose v1.5.0 "Stabilization Release" of 4 July 2026 is explicitly the first version "recommended for daily use"[5][6].

The historical default, **egzumer v0.22**, remains the most-installed custom firmware on V1 radios but has not been updated since 28 January 2024 — its author moved on, and the repository's "Latest" tag still points at v0.22[1]. A fifth stream, **losehu's** all-in-one Chinese firmware, remains popular in Asia with a large feature matrix of its own[11]. The scene is not uniformly alive: whosmatt, author of the UVMOD web patcher, archived his repo in January 2025 with the note that "the uv-k5 modding scene is not particularly active anymore" — a verdict the 2026 activity of Fusion and VUURWERK partially contradicts[10].

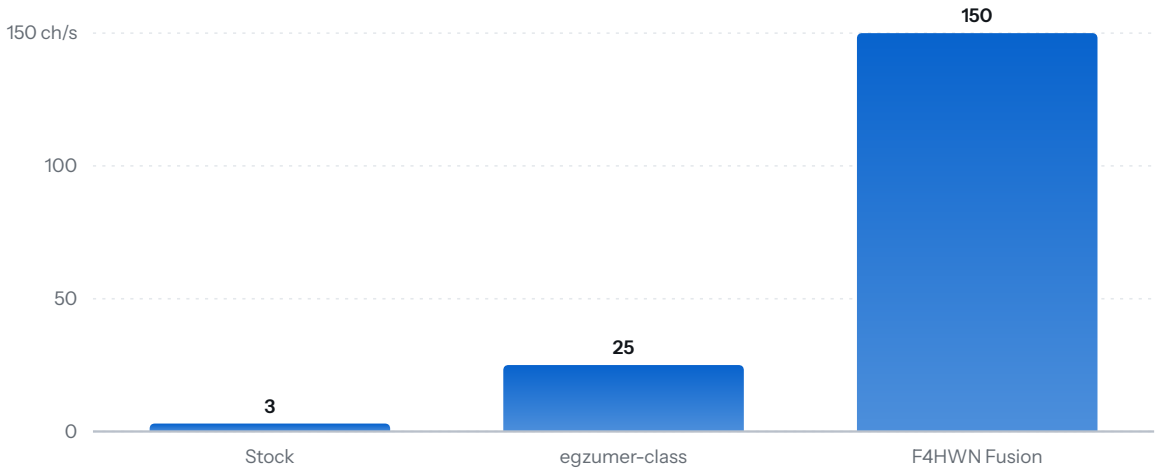
What custom firmware unlocks

Everything traces to one act: in mid-2023, a developer going by DualTachyon released an open re-implementation of the stock UV-K5 firmware (v2.1.27), which the community then merged, forked and extended into the ecosystem described here[1][9]. The stock firmware is a locked-down consumer product; custom builds expose what the radio's Beken BK4819 chipset can actually do[8].

FEATURE	STOCK FIRMWARE	EGZUMER-CLASS CUSTOM
RX frequency range	50–520 MHz	18–1300 MHz
Spectrum analyzer	No	Yes (F+5, fagci)
AM reception	Limited	Full support + AM fix
SSB reception	No	Yes (with limitations)
Scanning speed	~3 ch/s	~25 ch/s (up to ~150 ch/s on Fusion)
Squelch levels	Basic	Fine-grained (0–9)
Custom boot screen	No	Yes
S-meter	Poor	Calibrated (IARU R1 on Fusion)
FM broadcast radio	Yes	Yes (band-switchable)

Numbers per ham.wiki's stock-vs-custom table and quansheng.store's 2026 guide[8][15]. Some marketing pages claim "999+ channels"; in practice the 200-channel limit only grows on V1 radios when the on-board EEPROM is physically replaced with a 1–2 Mbit part (24M01/24M02), as IJV-style builds and losehu variants do[11][12]. Custom firmware also fixes real bugs: the "AM fix" (a large reception-quality improvement) and squelch-tail artifacts are among the most cited reasons V1 owners never go back to stock[1][8]. The scanning-speed gap is one of the most felt differences:

Scanning speed: stock vs custom firmware



~3 ch/s stock and ~25 ch/s per quansheng.store 2026 guide; ~150 ch/s per F4HWN Fusion README.

CAUTION

"Expanded frequency range" includes transmit. Wideband TX unlocks are legal only inside your licence's band — most custom builds keep TX restricted to 136–174/400–470 MHz or a regional profile, but some research builds remove the limits entirely. See Risks below.

Hardware generations: the compatibility trap

The single most important fact about UV-K5 custom firmware in 2026 is that **firmware is not interchangeable between hardware revisions**. Quansheng has quietly changed the main MCU at least twice, and each change broke the entire existing firmware stack:

GENERATION	MCU	BOOTLOADER	OFFICIAL FIRMWARE (2025–26)	CUSTOM SUPPORT
V1	DP32G030 (Cortex-M0)	v2 (older) / v5	k5升□ v2.01.39 (Sep 2025)	egzumer, F4HWN v4.3, VUURWERK, losehu, all classic forks
V2	PY32F030	1.01.01+	k5_py030 v1.01.07 / v1.02.01 (Dec 2025)	F4HWN only, and poorly
V3	PY32F071	—	K5ENG-071 v7.00.11 (Dec 2025)	F4HWN Fusion v5.x only

Sources: K5TOOL's recovery-image table and note that "newer radio models may use a different processor and therefore require their own specific firmware… If you have one of these newer models and flashed firmware intended for an older revision, the device will not boot"[7]; official firmware bundles tracked in amnemonic's repository[9].

How to tell what you own: remove the battery — V2 and V3 boards are marked under the battery compartment (a "V2"/"V3" label), while V1 units carry no marking. The MCU itself sits on the back side of the PCB[5][14]. Bootloader version on the display is another tell (PY32F030 units show 1.01.01 or newer)[16].

The consequences are documented and painful. egzumer's issue tracker has users who flashed v0.22 onto a UV-K5(8) V2 and got "a blank screen on power up"[17]; a Reddit thread on the V3 recovery flow reports the same for egzumer on V3, recovered only after flashing the stock K5_V3_PY32F071 image back via a dedicated tool[9][14]. VUURWERK's README states the rule plainly: flashing V1 firmware onto V2/V3 "produces a radio that does not boot (recoverable with the right stock firmware, but avoid the trip)"[5].

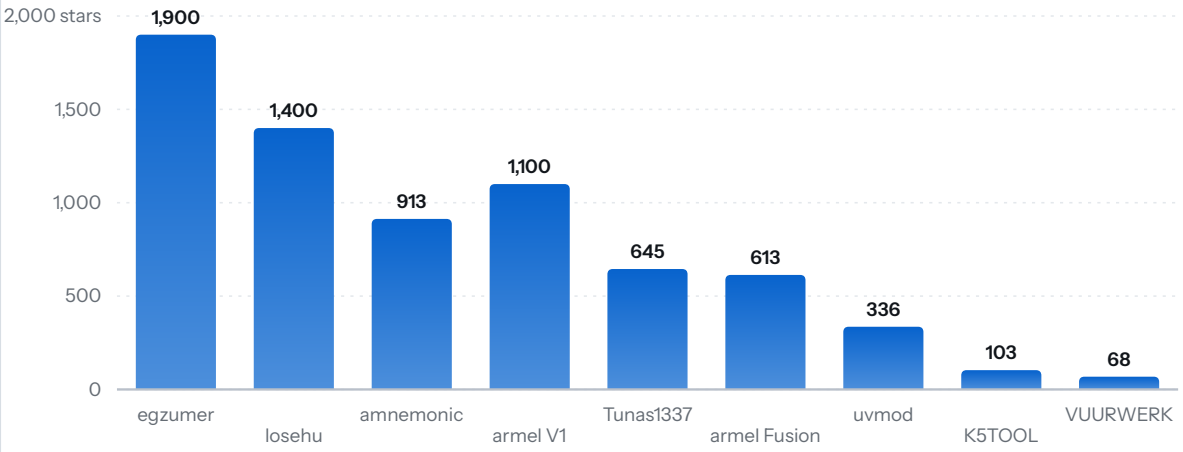
The firmware family tree

Every current build descends from one root:

- Mid-2023 — **DualTachyon/uv-k5-firmware**
  Open re-implementation of stock v2.1.27; Apache 2.0; everything descends from this
- Late 2023 — **OneOfEleven + fagci mods**
  AM fix, fast scan, long-press keys; fagci adds spectrum analyzer and SSB demod
- Sep 2023 – Jan 2024 — **egzumer merge**
  v0.14→v0.22; becomes the V1 default; frozen 28 Jan 2024
- 2023–2025 — **armel/F4HWN fork**
  V1 line grows to v4.3 (Dec 2025) with 5 editions; K5Viewer, bandscope
- 2024–2026 — **muzkr + armel → Fusion**
  Port to PY32F071 for UV-K1 / UV-K5 V3; v5.9.0 14 Aug 2026
- 2026 — **VUURWERK**
  Fresh V1 fork on egzumer: v1.0→v1.5.0; voice-seeking spectrum, TX compressor

Lineage per the repos themselves: egzumer is "a merge between OneOfEleven custom firmware with fagci spectrum analyzer"[1]; armel's Fusion fork states it is "a fork of the F4HWN custom firmware, who was a fork of Egzumer custom firmware"[2]; VUURWERK credits "Egzumer, with credits to DualTachyon, OneOfEleven, fagci"[5]. Community size gives a rough sense of weight:

GitHub stars of the main UV-K5 firmware repos



Star counts as fetched Aug 2026 from each repository page.

egzumer v0.22: the frozen classic

egzumer remains the safest recommendation for a V1 radio you just want to work. It bundles most of OneOfEleven's quality-of-life mods (AM fix, fast scanning, channel-name editing, configurable long-press button actions, battery percentage/voltage on the status bar, more frequency steps, finer squelch) with fagci's spectrum analyzer — turn it on with **F+5** [1] [8]. Later releases added SSB demodulation, backlight dimming, battery-voltage calibration from the menu and a Piotr022-style S-meter [1].

Its final release, v0.22 (28 January 2024), added band switching to the FM broadcast radio (F+1 or long-press 1) and fixed continuous tuning in monitoring mode — "some other smaller bug fixes" [1]. v0.21 before it added frequency-range scanning in the spectrum and 9/20/200 kHz steps. The project ships a web flasher (egzumer.github.io/uvtools) that still works today, a dedicated CHIRP driver, and a wiki documenting the spectrum analyzer's keymap [1] [8]. Community guidance as of 2026 still points V1 newcomers at it, though the "which firmware" threads increasingly recommend the more featureful F4HWN builds [14] [18].

The caveat: it is unmaintained and V1-only. People have bricked V2/V3 units flashing v0.22, so treat it strictly as V1 software [17].

F4HWN v4.3: the V1 line's final form

armel's fork of egzumer for V1 radios grew a large feature set of its own: a bandscope, FM broadcast radio, VOX, AirCopy (wireless channel copy), BEAM channel transfer, the K5Viewer screen-mirroring app, RF Log, Fox Hunt and a Morse Beacon. Because all of that exceeds the V1's 64 KB flash budget, v4.3 (2 December 2025) ships as **five editions** with a feature matrix so users can choose [4]:

EDITION	BANDSCOPE	FM BROADCAST	VOX	AIRCOPY / K5VIEWER
Bandscope	✔	—	—	✔
Broadcast	—	✔	✔	✔
RescueOps	—	—	✔	✔
Basic	✔	✔	—	—
Game (Breakout)	—	✔	—	✔

Per the v4.3 release notes[4]. Each release ships its matching CHIRP driver as an attachment. The V1 line appears to be finished at v4.3 — development effort moved to the PY32F071 port — but v4.3 is current, stable and the standard answer for "which F4HWN on my old V1"[4][14].

F4HWN Fusion: the actively developed line

For UV-K1 and UV-K5 **V3** radios, Fusion is where the action is. The "Fusion" branding matters: it merged all the author's previously separate editions into one all-in-one firmware — fagci's spectrum analyzer, broadcast FM radio, VOX and AirCopy, BEAM wireless channel transfer, UV Studio with integrated K5Viewer (screen mirroring, screenshots, remote keyboard), RX audio profiles and Audio Scope, first-responder controls, a Breakout game, automatic RX/TX logging with RF Log, and full Fox Hunt and Morse Beacon support[2].

Release cadence is brisk: v5.4 (May 2026), v5.5.0 (13 May 2026), v5.6.0/v5.6.1 (June 2026), and **v5.9.0 on 14 August 2026**[2][3]. Highlights from the v5.9.0 changelog[3]:

- a categorized menu browser with `Channels`, `Scan`, `Keys`, `Power`, `Display`, `Timers`, `Audio`, `Radio`, `DTMF` and `Service` categories, plus an `All` fallback preserving the original flat menu and numbering;
- a side-key action picker (F, then hold a side key);
- two extra Fox Hunt front-end attenuation levels, `BYP` and `BYP+`, for very strong nearby transmitters;
- a shared Fox Hunt/Beacon keypad lock (long-press F ~0.5 s).

Underlying capabilities documented in the README are the most complete of any UV-K5 firmware: **eight output power levels** from below ~20 mW (Low 1) through ~1 W (Low 5), 2 W Mid and ~5 W High plus a configurable User level; an S-meter calibrated to the IARU Region 1 VHF/UHF recommendation; **up to 24 named scan lists** scanning at roughly **150 frequencies per second**; regional frequency-lock profiles (amateur bands, PMR446, FRS, GMRS, MURS); 1600/2200/3500 mAh battery profiles; RF Log with on-radio history; and UV Studio handling flashing, calibration backup/restore and boot-logo management over the same serial link[2].

Two operational warnings from the author are worth taking literally. Upgrading from stock or pre-v5 Fusion "due to the complete change in memory mapping, you will lose all your memory channels and all your settings" — the fix is a RESET ALL from the hidden menu (PTT + Side 1 at

power-on, menu 77/77), so export channels to CSV first and re-paste, never import[3]. And the standing disclaimer:

> *THIS FIRMWARE HAS NO REAL BRAIN. PLEASE USE YOUR OWN. Use this firmware at your own risk (entirely). There is absolutely no guarantee that it will work in any way shape or form on your radio(s), it may even brick your radio(s)*[2][3].

Also note: DTMF calling and the scrambler remain disabled in Fusion, and the legacy AM-fix code is not used — the radio's wide-open front end means AM reception is the first thing to degrade in strong-RF environments, a hardware limit no firmware overcomes[2].

VUURWERK: the 2026 newcomer

VUURWERK (Afrikaans for *fireworks*), by James Honiball KC3TFZ, is the freshest serious fork: a single-developer rebuild on the egzumer base, **V1-only**, and — unusual for this scene — documented to an exceptional standard (a feature tracker, user manual, changelog and flashing guide in the repo)[5]. The release line: v1.2.4 → v1.2.7 (13 May 2026) → **v1.5.0 "The Stabilization Release" (4 July 2026)**, which its notes call "the first version recommended for daily use"[6].

Its pitch is closed-loop signal processing rather than more menu items:

- **Voice-seeking spectrum (F+5, then STAR until `VOX`)** — scores every frequency bin for voice probability instead of raw strength, so carriers and birdies stay flat while conversations light up; UP/DOWN hop between voices, PTT locks on (`LOCKED` banner), EXIT carries the frequency back to your VFO. "No other UV-K5 firmware does this"[5].
- **Adaptive squelch** — a signal classifier (FAST/NORMAL/SLOW/NOISE by rise time) drives smart squelch that opens for voices and stays shut for pagers, glitches and noise.
- **TX chain** — a real-time TX audio compressor (threshold 18, 3:1, 5 ms attack, 300 ms release), a **150 ms CTCSS lead-in** that mutes the mic so repeaters decode the tone before your first syllable, and a **60 ms S-curve TX soft start** that kills the key-up click.
- **F+EXIT = reset to simplex** — one gesture clears RX/TX tones, offset, reverse and scrambler from the active VFO; the documented cure for the "green RX light but no sound" mystery[5][6].
- Adaptive scan (~30 ms per-channel pre-check, 2–3× faster on quiet bands), a home-screen bandscope (F+7), live battery during TX with a sag tracker, 30-minute flashlight auto-off, boot-time health probe[5][6].

This is a tight flash: v1.5.0 uses **60,952 of 61,440 bytes** — 488 free — against the V1's 64 KB limit, and the feature tracker documents the byte-reclamation work that made it fit[6][7]. Licensing is unusual: GPLv3 for the complete firmware, but VUURWERK-original algorithms carry a commercial-license requirement if extracted into other projects[5]. Community reaction has been positive, with a contributed CHIRP driver and active r/Quansheng threads[13][18].

	egzumer v0.22	VS	VUURWERK v1.5.0
Last release	28 Jan 2024	·	4 Jul 2026
Spectrum analyzer	fagci (strength)	·	voice-seeking (VOX)
Squelch	0–9 fixed levels	·	adaptive, voice-scored
TX audio	stock	·	compressor + lead-in + soft start
Flash used	~59 KB	·	60,952 / 61,440 B
Status	frozen classic	·	actively developed
Both are UV-K5 V1 only.			

Specialist and regional forks

The long tail of the ecosystem, almost all V1-era:

- **losehu** (1.4k stars) — the most feature-dense firmware, Chinese-first, with multiple variants keyed to EEPROM size [11]:

VARIANT	EEPROM	DOPPLER SAT	MDC1200	CHINESE UI/INPUT	SI4732 RADIO	SMS
LOSEHUxxx	none	—	✔	—	—	—
LOSEHUxxxK	≥1 Mbit	✔	✔	✔	—	—
LOSEHUxxxH	≥2 Mbit	✔	✔	✔	✔	—
LOSEHUxxxE (EN)	none	—	✔	—	—	✔
LOSEHUxxxEK (EN)	≥1 Mbit	✔	✔	—	✔	—

The Doppler variants independently track up to 40 satellites (angles, altitude, speed, distance, frequency offset) and display an azimuth map; there is also a custom RAM-loaded bootloader for switching between firmwares, a larger-firmware system under development, and K5Web for online compilation [11].

- **phdlee/uvk5cec (KD8CEC)** — experimental line adding APRS (RX/TX, v0.2P stable, later WSPR and PC-linked APRS TX in v0.3C) and, via the **SI4732 hardware mod** (replacing the BK1080 FM chip), full HF-band AM/SSB reception below 30 MHz (0.1HF–0.5HF builds) [19].
- **NR7Y CW firmware** — a layered mod for both the V1 and Fusion lines adding a full CW keyer (iambic A/B/Ultimatic/Bug, paddle via PTT/Side1 or a cable/rework, macros, code-practice mode) [12].
- Smaller forks kept alive by individuals: kamilsss655 (more bandwidth options), AubsUK (scan lists + channel lockout, own CHIRP driver), takyonxxx, ntoivola, and the archived Tunas1337 mod collection (645 stars, archived 10 Apr 2024) [9] [14] [18].

Flashing, programming and backup tooling

The workflow is the same for every firmware: **back up calibration and channels first, enter bootloader mode (hold PTT, power on), flash, restore.** All the modern tools are browser-based Web Serial apps — Chromium-only (Chrome/Edge/Brave); Firefox and Safari lack Web Serial [8].

TOOL	TYPE	SCOPE	NOTES
egzumer uvtools	Web flasher	V1 firmwares	https://egzumer.github.io/uvtools; also flashes VUURWERK [5] [8]
UV Studio / UVTools2	Web flasher + tools	Fusion (V3/UV-K1) and V1	Flashing, calibration dump/restore, logo, RF Log, K5Viewer mirroring [2]
IU2FRL uvtools-frl	Web flasher + config editor	K5/K6/K5(8)/5R Plus	Reads/writes EEPROM config without flashing; presets for IJV V3.4 incl. 24M01/24M02 999-channel variants [12]
whosmatt UVMOD	Web patcher	V1	Binary-level mod patcher on stock v2.01.26/27; archived Jan 2025 [10]
sq5bpf k5prog	CLI (Linux/ Win)	V1	EEPROM dump/restore + flashing; the calibration-backup tool of record [8]
qrp73 K5TOOL	CLI (Mono)	All versions	Pack/unpack firmware, EEPROM R/W, bootloader v5 (AES) support, recovery images [7]
amnemonic uvmod-kitchen	Build tool	V1	Assemble your own modded v2.01.26/31 firmware from selectable mods [9]

CHIRP programming requires the driver matching your firmware — sq5bpf's original, egzumer's fork, AubsUK's, armel's per-release attachments, and VUURWERK's community driver [1] [2] [5] [6] [12]. The one habit every guide repeats: dump your calibration EEPROM before flashing anything, because factory calibration lives in the radio and some tools overwrite it [8].

Recovery, risks and legal caveats

Bricked radios are almost always recoverable because the bootloader survives. K5TOOL bundles stock recovery images for every generation: V1 bootloader-2 units use RT590 v2.01.32; V1 bootloader-5 units use ORIGINAL v5.00.05; V2 (PY32F030) uses k5_py030 v1.01.07 or v1.02.01; V3 uses the K5_V3_PY32F071 image with a raw-flash command [7]. For the truly stuck, amnemonic's repository carries OpenOCD configs for SWD-level unbricking [9].

The limits are physical, not software: the BK4819 receiver **cannot hear 630–840 MHz at all** — "This is a hardware limitation of the Beken BK4819 baseband chip. Please do not open issues about this" [9] — and executable code is capped at the MCU's 64 KB flash, which is why VUURWERK's 488 free bytes and Fusion's edition-splitting exist [5] [6] [17].

Legally, the wideband-TX research builds carry the strongest warnings in the scene: Tunas1337's collection is explicitly "for RESEARCH PURPOSES ONLY… DO NOT transmit on illegal frequencies. DO use a dummy load," and its author disclaims all liability [9]. UVMOD's maintainer

likewise warns that “the radio spectrum is used by many people and organizations, some of which are very important to critical infrastructure,” and calls for care around clones of the tool[10]. In the EU, transmitting outside the amateur bands (or on PMR446/FRS with power beyond 0.5 W) is a licensing offence; Fusion’s regional frequency-lock profiles exist precisely to keep radios compliant[2].

KEY FINDING

The decision tree for any UV-K5 in August 2026: identify the hardware first (battery-compartment label). V1 → egzumer v0.22 (safe default), F4HWN v4.3 (featureful), or VUURWERK v1.5.0 (experimental). V2 → F4HWN builds only, with care. V3 → F4HWN Fusion v5.9.0, the only real option. Backup calibration before every flash; wrong-generation firmware bricks, and K5TOOL is the recovery path.

Bottom line

The UV-K5 custom-firmware ecosystem is alive but fragmented along hardware lines. For **UV-K5 V3 and UV-K1 owners**, F4HWN Fusion v5.9.0 (14 Aug 2026) is the clear choice — actively developed, all-in-one, and the only firmware for that silicon. For **V1 owners**, egzumer v0.22 remains the stable classic, F4HWN v4.3 the most feature-complete, and VUURWERK v1.5.0 the interesting newcomer with genuinely original signal-processing features. Whatever you flash, check the generation first, dump your calibration, and keep K5TOOL and its recovery images on hand — the ecosystem’s worst failure mode is a one-minute mistake with a thirty-second fix.

SOURCES

1 egzumer/uv-k5-firmware-custom — repo, releases (v0.22) and wiki
https://github.com/egzumer/uv-k5-firmware-custom

2 armel/uv-k1-k5v3-firmware-custom — F4HWN Fusion for UV-K1/UV-K5 V3 (README)
https://github.com/armel/uv-k1-k5v3-firmware-custom

3 F4HWN v5.9.0 release notes — armel/uv-k1-k5v3-firmware-custom
https://github.com/armel/uv-k1-k5v3-firmware-custom/releases/tag/v5.9.0

4 F4HWN v4.3 release notes — armel/uv-k5-firmware-custom (V1 line)
https://github.com/armel/uv-k5-firmware-custom/releases

5 Tokeloshe/vuurwerk-firmware — README, FEATURES.md, hardware compatibility
https://github.com/Tokeloshe/vuurwerk-firmware

6 VUURWERK releases — v1.5.0 stabilization release notes
https://github.com/Tokeloshe/vuurwerk-firmware/releases

7 qrp73/K5TOOL — EEPROM tool, recovery images per hardware generation
https://github.com/qrp73/K5TOOL

8 HAM.Wiki — Quansheng UV-K5 Firmware guide (stock vs custom, flashing tools)
https://www.ham.wiki/en-US/guides/modification/uv-k5-firmware

9 amnemonic/Quansheng_UV-K5_Firmware — firmware collection, uvmod-kitchen, official FW versions (issue #145)
https://github.com/amnemonic/Quansheng_UV-K5_Firmware

10 whosmatt/uvmod — web-based firmware patcher (archived)
https://github.com/whosmatt/uvmod

11 losehu/uv-k5-firmware-custom — README_en.md (version matrix, Doppler, SI4732)
https://github.com/losehu/uv-k5-firmware-custom/blob/main/README_en.md

12 IU2FRL Quansheng modding tool (uvtools-frl)
https://iu2frl.github.io/uvtools-frl/

13 NR7Y CW Firmware Docs — briand/cw-firmware-docs
https://briand.github.io/cw-firmware-docs/

14 r/Quansheng — “UV-K5 (99) firmware?” (V1/V2/V3 identification and F4HWN guidance)
https://www.reddit.com/r/Quansheng/comments/1rpfu46/uvk5_99_firmware/

15 QUANSHENG UV-K5 Custom Firmware Guide 2026 — quansheng.store
https://quansheng.store/blogs/blog/quansheng-uv-k5-custom-firmware-guide-2026

16 vu3dxr.in — Quansheng UV-K5/UV-K6 get new PY32F030 MCU, firmware risks
https://vu3dxr.in/quansheng-uv-k5-uv-k6-radios-get-new-mcu-firmware-risks/

17 egzumer issue #670 — v0.22 bricks UV-K5(8) v2.0 units
https://github.com/egzumer/uv-k5-firmware-custom/issues/670

18 r/Quansheng — “VUURWERK firmware v1.2.7 is out, UV-K5 V1 only”
https://www.reddit.com/r/Quansheng/comments/1tcd58z/vuurwerk_firmware_v127_is_out_uvk5_v1_only/

19 KD8CEC (phdlee) — UV-K5 APRS/WSPR/SSTV and SI4732 HF firmware (hamskey.com)
http://www.hamskey.com/

Researched and written with deepseek/deepseek-v4-flash-0731, from the sources listed above. Figures are as reported by those sources. Exported November 29, 2026 from https://intel.innerpulse.net/doc/quansheng-uv-k5-custom-firmware-august-2026-generations-active-forks-and, where the current version lives.