

# FARMGOD

## Documentation & Usage Guide

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# Table of Contents

## Introduction

### 1. Dashboards

- Overview
- Fleet Health
- All ASICs
- Sitemap
- Curtailment
- Settings
- Other Dashboards

### 2. Managing Your Miners & DeviceSets

- The ASIC List — Basic Usage
- Miner Actions
- AI Cockpit (FARMBOT)
- The DeviceSet List — Basic Usage

### 3. Settings & Configuration

- Location
- Pools
- Automation
- Alerts
- Curtailment
- AI Audit
- Telegram
- FARMGOD.OS
- Expert

### 4. User Management

- Create User
- Users list
- Per-user statistics & billing

### 5. Pool Configuration in Depth

- Global & Per-DeviceSet Mode
- Per-Miner Override
- Worker Names
- Drift Correction & Theft Prevention

### 6. Supported ASICs & Custom Firmwares

- Supported Hardware
- Custom Firmwares
- What "Verified" Means
- Getting New Hardware Supported

## INTRODUCTION

# Welcome to FARMGOD

The first time you log into the FARMGOD Interface, you land on the **Overview** dashboard — and if your account is brand new, a modal pops up before you see anything else. This introduction covers that first-run experience and how FARMGOD is put together, before the rest of this guide walks through it chapter by chapter.

## • First Login: The Onboarding Modal

### Kollektor not connected yet

If FARMGOD hasn't heard from your on-site tool (Kollektor) at all, the modal says so directly: "The FARMGOD.Kollektor is not online!" A status box shows whether it's **Not Configured** or **Disconnected**, plus when it was last seen if it has ever connected before. From here you can hit Refresh to check again, or Contact Us if you're stuck getting it installed and connected.

### Connected, but no DeviceSets yet

Once Kollektor is online but you haven't created a DeviceSet, the modal switches to "Let's get your ASICs online" and walks you through three things you'll use FARMGOD for: a **Network Scan** to find every supported miner in an IP range, **(Batch) Actions** to reboot, sleep/wake, or otherwise act on one miner or an entire set at once, and **Critical Insights** — real-time stats, health, and production monitoring. A primary Create Your First Device-Set button gets you started right away; "I'll do it later" dismisses the modal if you're just exploring for now.

## • How FARMGOD Is Organized

Kollektor scans your network and discovers every supported ASIC on it. Discovered miners get grouped into **DeviceSets** — a rack, a site, or any logical grouping that makes sense for how you manage your fleet. Every DeviceSet belongs to a **Location**, which is where site-wide settings like pool configuration, curtailment, and alerts live (covered in the Settings & Configuration chapter). If your account is a hosting provider, DeviceSets can also be assigned to **Managed User** sub-accounts — your customers — who then see and manage only the DeviceSets assigned to them, each with their own scoped view.

## • What You Can Do

### Monitor

Real-time hashrate, temperature, fan speed, power draw, and profitability, from a single miner up to your whole fleet, plus alerting when something needs attention.

### Act

Reboot, change power mode, update firmware, and more — on one miner or a whole selection at once, from the same management table wherever you find it.

### Automate

Pool configuration that self-heals after IP changes, hashrate-theft protection, and curtailment that reacts to electricity price or a schedule you define.

### Diagnose

AI-assisted tools that read your fleet's activity log and explain problems in plain language, and that can analyze a brand-new IP to help bring unsupported hardware online.

### Manage at scale

Multiple locations, multiple users, and — for hosting providers — multiple customers, each scoped to see only what's theirs.

## WHERE TO GO NEXT

The rest of this guide walks through all of this in detail, dashboard by dashboard and setting by setting, starting with the dashboards you'll use every day.

## CHAPTER ONE

## Dashboards

Each dashboard gives you a different view of your fleet, from a big-picture overview down to a single ASIC. The same navigation links sit top-right everywhere: **Overview**, **Fleet Health**, **All ASICs**, **Sitemap**, **Curtailement**, and **Settings** — plus **Device-Sets**, **Device-Set Detail**, and **ASIC Detail**, reached by drilling into a DeviceSet or miner and covered together under **Other Dashboards**.

### THE DRILL-DOWN PATH

Most of your day-to-day navigation follows one path: **All ASICs** (or the DeviceSet table on **Overview**) → click a DeviceSet's name → **Device-Set Detail** → click one of its ASICs → **ASIC Detail**. Every stop along the way keeps a link back out to the fleet-wide views, so you're never stuck.

### Overview

The landing page — a single-screen summary of the whole fleet's health, economics, and status.

#### • Live Fleet Snapshot

A hero card shows your online/total ASIC count with a live/stale badge, per-algorithm hashrate (now vs. nominal, and 24h average), the share of ASICs underperforming or not hashing, plus fleet-wide temperature, fans, load, and efficiency — with any firing threshold alerts shown alongside.



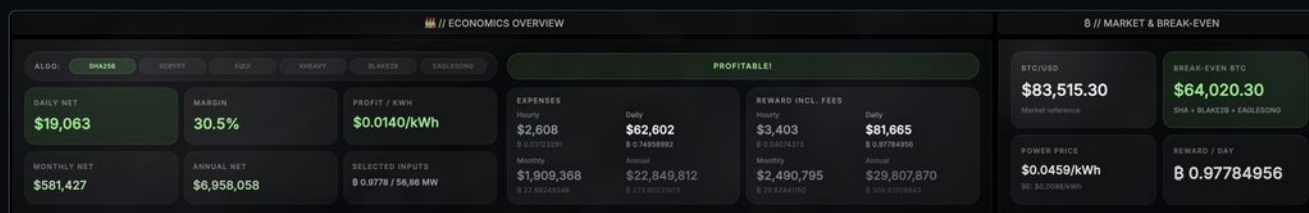
#### • Hashrate, Temperature, Fans & Load

Two charts trend the fleet over time: hashrate/temperature/fan history on the left, and total power draw alongside the online-miner count on the right — useful for spotting a slow decline or a sudden drop before it becomes an alert.



#### • Economics & Market

A running estimate of your power draw, electricity cost, and profitability per algorithm — daily, monthly, and annual, in both dollars and BTC — next to a market card with the live BTC/USD price, today's break-even BTC price, your power price against its break-even, and BTC earned per day. Revenue and profit are after the location's Pool & Dev Fee (Settings > Location), here as on Device-Set Detail and ASIC Detail.



## • Historical Trends / Tool Status & More

A longer-range historical trend chart and DeviceSet count sit below the snapshot, followed by two full management tables side by side — every ASIC in the fleet, and every DeviceSet — so you can act on a miner or a DeviceSet without leaving the page.



## • System Log / Audit Trail & Live Weather

A running activity stream of every automated and manual action taken at this location — curtailment events, power-mode changes, reboots, and more — timestamped and searchable, next to a weather widget for the location's coordinates.



### QUICK ACTIONS

The bottom of the page has direct shortcuts: jump straight to All ASICs, straight to the faulty-ASICs view on Fleet Health, or to the full DeviceSets list — handy once you know exactly where you want to go next.

## ♥ Fleet Health

The single busiest dashboard — a wall of focused tables, each one showing exactly the miners affected by one specific kind of problem.



At the top, a trend chart and a row of counters (Not Hashing, Low Performance, Faulty, Failover, Online/Total) tell you the shape of your fleet's problems right now, each paired with a percentage-of-fleet indicator. Everything below that is a grid of side-by-side tables, one pair per row, each scoped to one specific condition:

**Performance Alerts** and **Profitability Alerts** — miners hashing below expectation, or costing more than they're earning.

**Chip Faults** and **Board Faults** — hardware-level failures detected on individual chips or hashboards.

**Fan Errors** and **Faulty HW Overview** — miners with fan problems, and a DeviceSet-level rollup of hardware issues.

**Low Uptime** — miners that haven't been up for a full day yet (recently rebooted or newly added).

**Not Hashing** and **Low Efficiency** — online but producing nothing, or producing less per watt than they should.

**High Temperature** and **Low Temperature** — thermal outliers in either direction.

**Pool Failover** and **No Active Pool** — miners that have fallen back to a backup pool, or aren't connected to any pool at all.

**Active Pools** and **Duplicate Worker Names** — a breakdown of which pools your fleet is actually mining to, and a check for worker names that have accidentally been reused across more than one miner.

**Offline** — a full-width table at the very bottom listing every miner that isn't reporting in at all.

#### WHY SO MANY SMALL TABLES INSTEAD OF ONE BIG ONE

Each table here is pre-filtered to one problem, so you can bookmark or focus on exactly the category you care about — for example, checking just Offline and Chip Faults every morning — instead of scrolling through every ASIC on All ASICs and eyeballing which ones look wrong.

## All ASICs

The fleet-wide miner management view — every ASIC you're allowed to see, in one place.

### Model Summary

A card grid grouping every miner by model, so you can see at a glance how many of each hardware type you run and how they're doing as a group, without scrolling through individual rows.

### Online ASICs

The full management table for every online miner — searchable, sortable, paginated, with the same row actions (reboot, power mode, firmware, and so on) available from any other miner table in FARMGOD.

### Offline

The same table scoped to miners that aren't currently reporting in, so you don't have to filter for it yourself.

## Sitemap

Every miner where it stands — area, rack, shelf and position — coloured live by how it is doing.

The Sitemap maps each location in areas (a container, a hall, a building), racks and slots. A miner holds its slot by its MAC address, so it keeps its place when its IP changes, and a replaced miner is noticed and offered for its successor. Build the site from your Device-Sets in one go, import a layout you keep in a spreadsheet, or build it rack by rack; then walk it with your phone: the walk shows each slot in turn and the miner most likely to stand there, placed with a tap, a scan of its MAC label or a press of its IP Report button. A machine FARMGOD doesn't monitor (yet) keeps its slot as an Other device, and the miner takes it over once FARMGOD monitors it.

The map colours every miner by status, temperature, hashrate, model, Device-Set or firmware; a click on the legend picks out one problem and lists those miners in the order you walk the floor. Every position also shows in the Miner-Lists, on the ASIC detail page, on the phone and in AI Audit reports. On FARMGOD Cloud the Sitemap is part of Cloud PRO; on a Private VPS it is for the server's managers.

For everything about the Sitemap — building a site, mapping it on site with the phone, reading the map — see the dedicated *FARMGOD Sitemap Setup & Usage Guide* (**Sitemap** in the HELP dashboard).

## Curtailment

*Live status of the curtailment engine, plus a full history of every curtailment action taken.*

### Status strip

Four heartbeat-and-status pairs across the top tell you whether the moving parts behind curtailment are actually alive: the curtailment engine itself, the active trigger mode (manual, scheduled, or one of the price thresholds), the ERCOT grid-price feed, and the Bitcoin market-price feed. If curtailment isn't behaving as expected, this is the first place to check — a stale heartbeat here usually explains it.

### Curtailed count & trend

How many miners are curtailed right now, plotted alongside your online count over time, so you can see curtailment events as they happen and how long they lasted.

### Event Tracker

A full table log of every curtailment action: when it happened, what triggered it and why, how many miners were targeted, how many succeeded versus failed, and how many were online/offline immediately before. This is the place to look when you need to explain "why did the fleet curtail at 3pm yesterday."

For everything about how to configure curtailment itself — trigger modes, scopes, thresholds, and worked examples — see the dedicated *FARMGOD Curtailment Setup & Usage Guide*.

## Settings

*Hosts the full configuration panel covered in the next chapter — Location, Users, Pools, Automation, Alerts, Curtailment, AI Audit, Telegram, FARMGOD.OS and Expert.*

There's nothing else on this dashboard besides the configuration panel itself, so see the next chapter, *Settings & Configuration*, for everything it can do.

## Other Dashboards

*Not in the top navigation menu — reached only by drilling down from Overview, All ASICs, or another miner table.*

### • Device-Sets

One click away from Overview or All ASICs — a fleet-wide list of every DeviceSet (rack, site, or logical group of miners) instead of individual ASICs. A quick health strip up top (total DeviceSets, how many are online vs. offline) sits above the main table, which lists every DeviceSet you're allowed to see with its ASIC counts (total/online/offline/faulty), performance percentage, per-algorithm hashrate, average temperature and fan speed, and total power load.

#### CLICK A NAME TO DRILL IN

Clicking any DeviceSet's name takes you straight to its **Device-Set Detail** page, described next.

## • Device-Set Detail

Everything about one specific DeviceSet — reached by clicking its name from Device-Sets or Overview, never navigated to directly.

### Cockpit header

A hero card names the DeviceSet and its location, shows an online/total ASIC progress bar, a live-vs-stale freshness badge, and per-algorithm hashrate — current, what it should be online, what it should be at full spec, and what the pool is actually reporting — alongside average temperature, fans, power load, and efficiency. A sidebar next to it shows who owns this DeviceSet, when it was created, and when it was last seen.

### Live charts

Hashrate (live and pool-reported, per algorithm), temperature, fan speed, and the local electricity price over time; plus a second chart for power load and online-miner count.

### Economics & Market

A financial cockpit lets you switch between algorithms (SHA256/Scrypt/Equihash/KHeavyHash, if this set mines more than one) and see that algorithm's inputs, expenses, reward, margin, and profit broken down by hour, day, month, and year — both gross and net. Next to it, a market card shows the live BTC price, your power price, and your break-even point.

### ASIC table

Every miner belonging to this DeviceSet, in the same searchable/sortable management table used everywhere else in FARMGOD, with the usual row actions available.

#### CLICK AN IP TO DRILL IN FURTHER

Clicking a miner's IP address in this table takes you to its own **ASIC Detail** page. Quick links at the bottom of the page also take you back out to the full All ASICs or Device-Sets views.

## • ASIC Detail

The deepest level — everything about one single miner, reached by clicking its IP from Device-Set Detail (or elsewhere in the fleet tables).

### Command header & action controls

A hero card shows this one miner's hashrate (live vs. spec), load, efficiency, fan speed, power mode, which pool slot it's using, its pool hashrate over the last 15 minutes and 24 hours, accepted/rejected/invalid share counts, hashboard health, and uptime. Right next to it is the same row-action control used in every miner table elsewhere in FARMGOD — reboot, power mode, and whatever other actions this specific model/firmware supports — just scoped to this one device instead of a whole table.

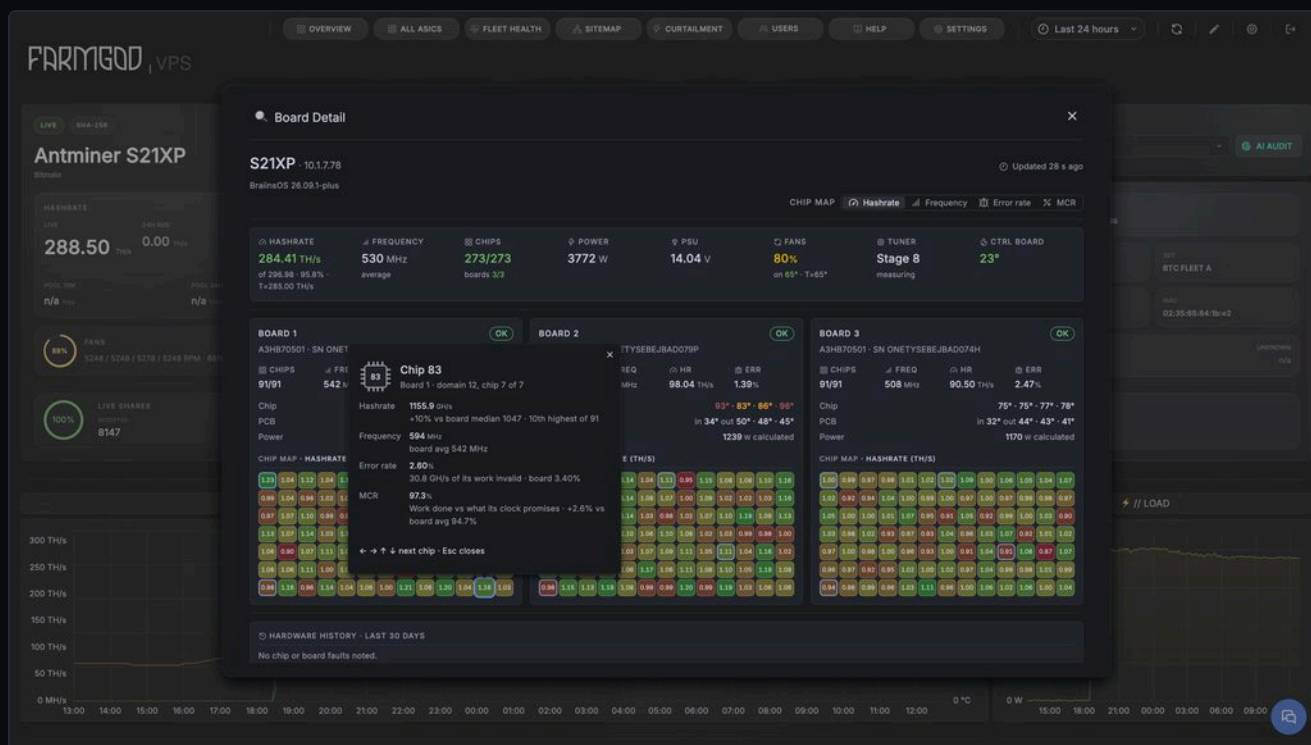


### Identity & live charts

A sidebar lists which DeviceSet it belongs to, its MAC address, serial number, firmware/OS version, power supply, and warranty status. Below that, the same style of live hashrate/temperature/fan and power-load charts you'd see for a DeviceSet, scoped to this single miner.

## Board & Chip Detail

On supported firmware (stock Antminer, VNish, Auradine, Brains OS), the magnifier next to **Boards** opens a live view of each hashboard — chips, frequency, hashrate, errors and temperatures, refreshed every 60 s. A chip map flags weak or failing chips (click one for details), above a 30-day fault history.



## Economics, Market & Activity Log

The same per-algorithm profitability cockpit and market/break-even card as Device-Set Detail, scoped to just this miner's own output and power draw. Below that, a full activity log pulls this miner's history of notes — automatically labeled as errors, warnings, informational events, or general activity — so you can see everything that's happened to it (curtailment, reboots, config changes, alerts) in one place.

## CHAPTER TWO

## Managing Your Miners &amp; DeviceSets

| ASIC MANAGEMENT                                                                                                                   |               |             |                 |           |       |      |       |      |        |          |                 |             |    |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-----------------|-----------|-------|------|-------|------|--------|----------|-----------------|-------------|----|
| Select Action (0)                                                                                                                 |               | Q Search... |                 |           |       |      |       |      |        |          |                 | Worker Name |    |
|                                                                                                                                   |               |             |                 |           |       |      |       |      |        |          |                 | 25 / page   |    |
| POOL                                                                                                                              | IP            | SET         | MODEL           | HASHRATE  | TEMP  | FANS | POWER | EFF  | MODE   | FW       | VER             | LOG         | AI |
| •                                                                                                                                 | 192.168.0.101 | BTC_FLEET_A | NerdQAx++ Hydro | 4.59 TH/s | 57 °C | 99 % | 77 W  | 16.8 | Normal | NerdOS   | V1.0.37.2-LTS   | D           | •  |
| •/c                                                                                                                               | 192.168.0.102 | Gamma       | Gamma           | 1.16 TH/s | 58 °C | 70 % | 22 W  | 18.9 | High   | AxeOS    | v2.14.2         | D           | •  |
| •/c                                                                                                                               | 192.168.0.103 | BTC_FLEET_A | NerdQAx++ Air   | 5.47 TH/s | 64 °C | 95 % | 96 W  | 17.6 | High   | NerdOS   | V1.0.37.2-LTS   | D           | •  |
| •/c                                                                                                                               | 192.168.0.104 | BTC_FLEET_A | BMM101          | 0.00 TH/s | 35 °C | 0 %  | 2 W   | n/a  | Sleep  | BrainsOS | 26.08.1-plus    | D           | •  |
| •                                                                                                                                 | 192.168.0.105 | Gamma       | Gamma           | 1.27 TH/s | 61 °C | 66 % | 25 W  | 19.7 | High   | AxeOS    | v2.14.2         | D           | •  |
| •                                                                                                                                 | 192.168.0.106 | Gamma       | Gamma           | 1.17 TH/s | 66 °C | 69 % | 26 W  | 22.3 | High   | AxeOS    | v2.14.2         | D           | •  |
| x                                                                                                                                 | 192.168.0.110 | BTC_FLEET_A | nano3           | n/a       | n/a   | n/a  | n/a   | n/a  | Normal | Stock    | 24071801_42c... | D           | •  |
| <div>AI AUDIT</div> <div>           FIRST PREV SHOWING PAGE 1 / 1 NEXT LAST         </div> <div>           CSV PDF         </div> |               |             |                 |           |       |      |       |      |        |          |                 |             |    |

| DEVICE-SET MANAGEMENT                   |       |           |      |  |
|-----------------------------------------|-------|-----------|------|--|
| Select Action                           |       |           |      |  |
| NAME                                    | ASICS | HR / LIVE | PERF |  |
| ALT_FLEET                               | 0 / 0 | n/a       | n/a  |  |
| BTC_FLEET_A                             | 3 / 4 | 10.1 TH/s | 95%  |  |
| BTC_FLEET_B                             | 0 / 0 | n/a       | n/a  |  |
| Gamma                                   | 3 / 3 | 3.60 TH/s | 100% |  |
| <div>PREV SHOWING PAGE 1 / 1 NEXT</div> |       |           |      |  |

Almost every dashboard in FARMGOD — Overview, All ASICs, Fleet Health, Device-Set Detail, ASIC Detail — shows miners (or DeviceSets) using the exact same table, with the same search/filter/selection controls and Actions menu. Learn it once here and you know it everywhere. It's also the answer to "how do I configure a miner or trigger an action on it" — there's no separate control panel; it all happens from this table.

### THE BASIC PATTERN, EVERYWHERE

Tick the checkbox on one or more rows (or just click a row), open the **Select Action** dropdown at the top of the table, pick what you want to do, and confirm in the dialog that pops up. That's the whole workflow, whether you're rebooting one miner or a hundred.

## The ASIC List — Basic Usage

Search, filter, sort, select, and export — before you even get to actions.

### Columns

A typical miner table shows: **POOL** (a colored dot for pool-connection health — hover it for a plain-English explanation, and look for a small "c" next to it if this miner has a per-miner pool override), **IP**, **SET** (the DeviceSet it belongs to), **MODEL**, **HASHRATE**, **TEMP**, **FANS**, **POWER**, **EFF** (efficiency), **MODE** (current power mode), **FW** (firmware) and **VER** (version). Clicking **IP**, **SET**, or **MODEL** jumps you straight to that miner's ASIC Detail page, that DeviceSet's Detail page, or that hardware model's summary, respectively — the table doubles as a navigation shortcut, not just a display.

### Search & column filters

#### Search box

Matches against Worker Name, MAC Address, or Serial Number — pick which one from the dropdown next to the search box.

#### Column filter (funnel icon)

Click the small funnel next to a column header to filter just that column. Numeric columns (Hashrate, Efficiency, Power, IP, Temp, Fans) let you filter with an operator — greater than, less than, equal to — instead of just a plain text match, e.g. "Temp > 85" to find your hottest miners. Every other column filters as a simple text match. The funnel turns a different color once a filter is active, so you can tell at a glance which columns are currently narrowed down.

### Sorting & selecting rows

Click any column header to sort by it; click again to reverse. Tick a row's checkbox to select it, or just click anywhere on the row itself. **Shift-click** a second row to select every row in between — handy for grabbing a whole visible range at once. The checkbox in the header selects (or clears) everything currently matching your search and filters, not just what's visible on the current page.

## • Pagination

Choose how many rows show per page (10/25/50/100), and page through with the arrows at the bottom.

### SOME TABLES SHOW A CURATED SUBSET, NOT YOUR WHOLE FLEET

A few dashboards — most notably every table on Fleet Health — deliberately show only the miners matching one specific condition (e.g. "currently overheating," "not hashing," "offline"), not your entire inventory. That's by design, not a bug: it's what makes Fleet Health useful as a triage view. All ASICs and Overview's tables, by contrast, do show everything you're allowed to see.

## • Exporting

### .CSV / .PDF buttons

If you have miners selected, exports exactly those. If nothing is selected, exports everything currently matching your search and column filters — not just the current page. The PDF version is a formatted, color-coded report with the FARMGOD letterhead; the CSV is a plain spreadsheet-ready file. Both are timestamped in the filename.



## Miner Actions

One dropdown, grouped by purpose, available for a single miner or a whole selection at once.

### NOT EVERY ACTION IS AVAILABLE FOR EVERY MINER

FARMGOD only offers an action if that exact hardware model and firmware combination is verified to support it — you won't see "Blink LEDs (Vnish)" offered for a stock Antminer, for example. Select a mix of compatible and incompatible miners and the action stays available but shows how many it'll actually apply to, e.g. "Reboot (7)" out of 10 selected. None of these ask for a typed confirmation phrase — every one is a straightforward "are you sure?" click-through.

## • Power & Reboot Controls

### Reboot

Restarts the selected miner(s).

### Power Mode

Switches between Low, Normal, and High power modes.

### Power Limit

Sets a custom power draw target in Watts, or resets back to the factory default with one click.

### Sleep / Wake

Puts miners into a low-power sleep state, or wakes them back up.

## • Pools

### Edit Pool Config

Overrides this miner's (or these miners') pool configuration independently of the farm-wide pool settings — one to three pool entries per algorithm, plus an optional worker-name override. This is the **Per-Miner Override** mechanism covered in full in the *Pool Configuration in Depth* chapter, including why it keeps working even when farm-wide pool management is switched off.

## • Diagnostics & Notes

### LOG column (per row)

A one-click button next to each miner that fetches and displays its raw device log immediately, with Copy and Refresh buttons — the fastest way to check what one specific miner is actually doing right now.

### Export Miner-Log

The bulk version — requests the log for every selected miner at once. Rather than showing them all inline, it tells you the logs will be available on each miner's own detail page once fetched.

**Add Custom Note**

Attaches a short note (and optional longer detail) to the selected miner(s) — useful for leaving yourself or a teammate context, like "swapped PSU on 3/1" or "customer asked to keep this one off." Works even on offline miners.

**Create Ticket**

Opens a support-ticket form (subject, category, assignee, description) with the miner's IP and MAC already attached — only available where a support-ticket integration is configured.

- Fleet Hygiene**

**Set Admin Pass**

Pushes a new admin/web-interface password to the selected miner(s).

**Delete**

Permanently removes the selected miner record(s) from FARMGOD. This doesn't affect the physical hardware — it just stops FARMGOD from tracking it. Use this for miners that have been decommissioned or moved off-site.

- Moving Miners Between DeviceSets**

**Create Set from Selection**

Takes miners you've selected and moves them straight into a brand-new DeviceSet, skipping network discovery entirely since FARMGOD already knows exactly which miners you mean.

**Move Selection to Set**

Same idea, but moves your selected miners into an *existing* DeviceSet instead of creating a new one.

- Model-Specific Tools**

These only appear when your selection includes a compatible model:

**Blink LEDs (Vnish)**

Antminers running Vnish firmware — flashes the locate LED on/off, handy for physically finding one unit in a rack full of identical boxes.

**Preheat**

Sealminer devices — configures boot-time and tuning preheat behavior, with a target temperature and timeout, for cold-weather startups.

**Write API Toggle**

Whatsminer — enables or disables the miner's write API (as opposed to read-only).

**FW Upgrade**

Whatsminer — installs a firmware bundle that's already been placed on your on-site tool. Automatically skips any selected miner that's already running that exact version.

**Set Fast Hash**

Whatsminer — enables or disables Fast Hash mode (not available on VG/VH/VJ hardware revisions).

**Set Power Target**

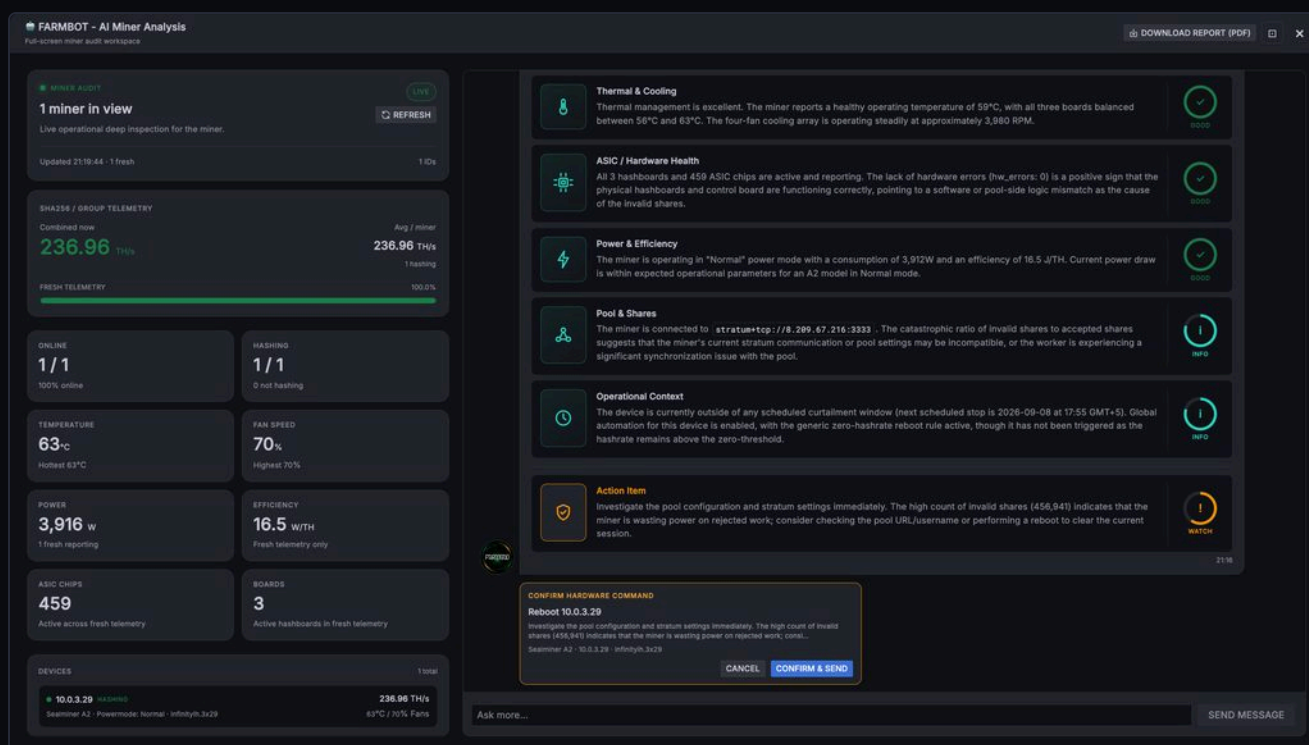
Whatsminer — sets a custom power draw target in Watts.

**Blink / Reset LEDs**

Whatsminer — blink with a chosen color, frequency and duration, or reset LED behavior back to automatic.

**AI Cockpit (FARMBOT)**

An AI assistant that reads a miner's live stats and history, and can diagnose problems or even take action, with your explicit confirmation.



### AI button (per row)

Analyzes one specific miner on demand — pulls its live stats, current configuration, and recent history, then opens a chat-style assistant window with its findings.

### AI Audit (toolbar button)

The same analysis, run across your current selection — or, if nothing is selected, across whatever the table is currently filtered to. Useful for "check everything that's currently flagged as low-performance" in one pass.

### What you get back

A structured "Report Card" summarizing the miner's health and what, if anything, looks wrong — followed by an open chat where you can ask follow-up questions in plain language ("why is this one running hot?", "has this happened before?"). It can also generate a downloadable PDF inspection report on request.

### When it recommends an action

FARMBOT can suggest a fix — a reboot or a power-mode change — but it never applies one silently. It shows you exactly what it wants to do and waits for you to click Confirm, using the same permission and hardware-compatibility checks as if you'd triggered that action manually from the table. Once confirmed, it leaves the same note-history trail any manual action would.

### Automatic audits

Separately, if "Enable AI Auditor" is turned on in Settings, FARMGOD runs this same analysis automatically on a schedule across your fleet, saving each diagnosis as a note on the relevant miner — no need to click anything yourself. Turn on the matching Telegram notification if you'd also like to be pinged when it finds something.

#### REQUIRES A GEMINI API KEY

Every AI button described here stays disabled with a tooltip explaining why until a Gemini API key has been entered under the **AI Audit** tab in Settings (see the previous chapter).

## The DeviceSet List — Basic Usage

The same table component as the ASIC list above, but one row per DeviceSet instead of one row per miner — this is the DeviceSet list partway down the Overview dashboard, and the quickest place to act on a whole rack or site at once.

You'll run into this same DeviceSet list elsewhere too — the standalone Device-Sets dashboard (see *Other Dashboards*, previous chapter) shows the identical table full-page. Everything below applies wherever you find it, though for day-to-day work the copy on

Overview is the one you'll actually use.

## • Columns

Name, total/online/offline/faulty ASIC counts, performance percentage, hashrate broken out by algorithm, average temperature and fan speed, and total power load. Clicking a DeviceSet's name takes you to its Device-Set Detail page; a small pencil icon next to the name opens its editor directly, without leaving the table.

## • Creating, editing & deleting DeviceSets

### Create Set

Name, Location, electricity price and currency (the set's own Price/kWh), an IP range to scan for miners, an optional MAC whitelist, and the miner admin credentials to use once they're found. After CONFIRM, the Network Discovery window counts the ASICs the scan finds.

### Edit Set

The same fields as creation, plus (where enabled) a Pool Config tab for this specific DeviceSet's own pool policy, and IMPORT DATA (below). Only available with exactly one DeviceSet selected.

### Delete Set

Deletes the DeviceSet **and every miner inside it** from FARMGOD.

### Delete Miners

Deletes only the miners belonging to the selected DeviceSet(s) — the DeviceSet itself stays, empty and ready to be reused.

### DELETE SET VS. DELETE MINERS

These sound similar but do different things — "Delete Set" is the more destructive of the two, since it takes the DeviceSet down with it. If you just want to clear out its miners and keep the DeviceSet (its name, location, pool config, etc.) around, use "Delete Miners" instead.

**Electricity price** is the DeviceSet's own Price/kWh and currency — what its energy cost, profitability and billing use.

When its location's price is used for all DeviceSets (Settings > Location > Economics), Create Set and Edit Set show *Location price override active* with that price under the field. The location's price then applies; the set's own price is kept and applies again once the location's is switched off.

## • Import Data: history from Foreman

**IMPORT DATA** brings a DeviceSet's history over from Foreman, so its charts don't start empty: in Network Discovery once a new DeviceSet's scan has found ASICs, and in Edit Set for one created earlier.

**Select vendor:** Foreman is the one FARMGOD imports from today.

**Setup and import:** paste the Foreman API key (in Foreman: the person icon at the top right > My Account > API Information), click CONNECT and choose the client the miners are in. The preview shows how many of the DeviceSet's miners Foreman knows, why the others are left out, and the time it fills. IMPORT starts it; the window can be closed, the charts fill as it goes.

**Import Data**

Device-Set: `Hall_A - FOREMAN`

FOREMAN API KEY:  CONNECT

In 5 seconds this person goes at the top right → My Account → API Information. It's used for this import only and never stored.

FOREMAN CLIENT: My Mining Co

212 of 230 miners found in Foreman by MAC address

- 11 without a MAC address
- 3 with a MAC address used twice
- 4 not in this Foreman client

History: 10/8/2025 - 10/8/2025 (364 days; this installation keeps 365)

Comes in: `hashrate` ✓ `power` where the miner reports it `temperatures` and `fans` n/a

Only the time before this Device-Set's own data is filled. Nothing FARMGOD recorded is changed.

BACK IMPORT

### What comes in

Hashrate, and power for miners that report it themselves. Temperatures and fans aren't in Foreman's export: n/a.

### Which miners

The DeviceSet's own, matched by MAC address. One without a MAC, with a MAC used twice, not in that Foreman client or of an unknown model is left out.

### Which time

Only before the DeviceSet's own data, back as far as this installation keeps history: every 5 minutes, every minute in the last 12 hours.

### GOOD TO KNOW

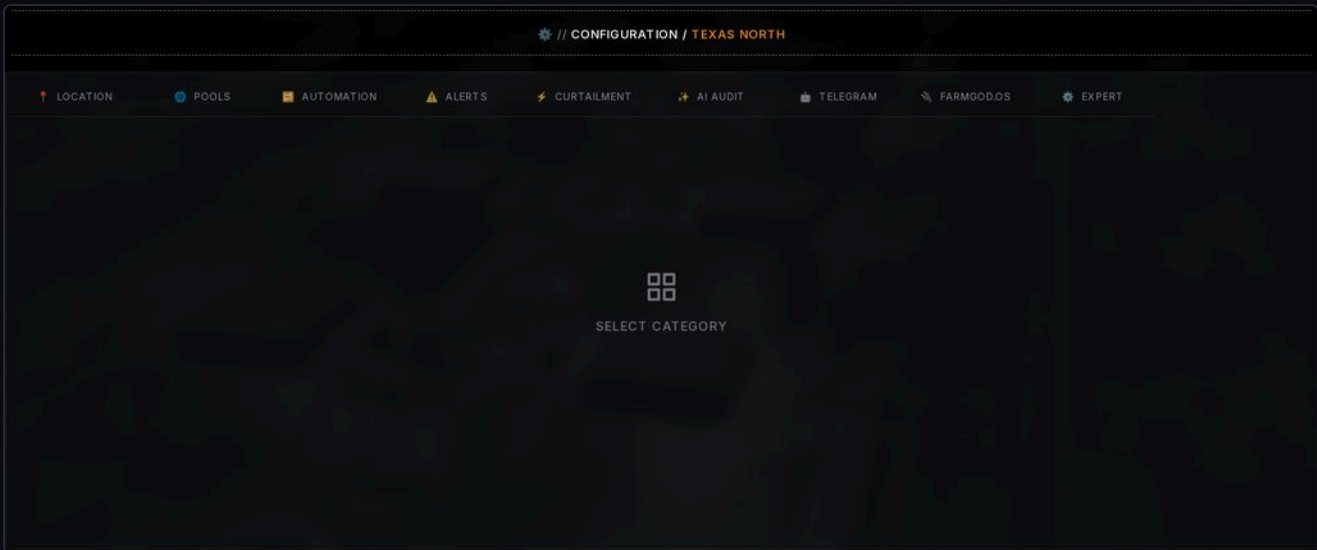
Each miner's units are checked against its own FARMGOD reading. Nothing FARMGOD recorded is overwritten; one import per DeviceSet, and a failed one can be started again. The key is used for this import only. Imported history shows in the charts only: billing, hosting energy accounting and Model/FW AUTO UPDATE leave it out.

### • Actions on a whole DeviceSet

Every action from the Miner Actions section above — Reboot, Power Mode, Sleep, and so on — can also be applied to a selected DeviceSet, running it against every miner that belongs to it. Before you confirm, FARMGOD re-checks the DeviceSet's current miner list and tells you exactly how many miners will actually be affected (accounting for anything offline or not compatible with that action) — never a stale or guessed number.

## CHAPTER THREE

## Settings & Configuration



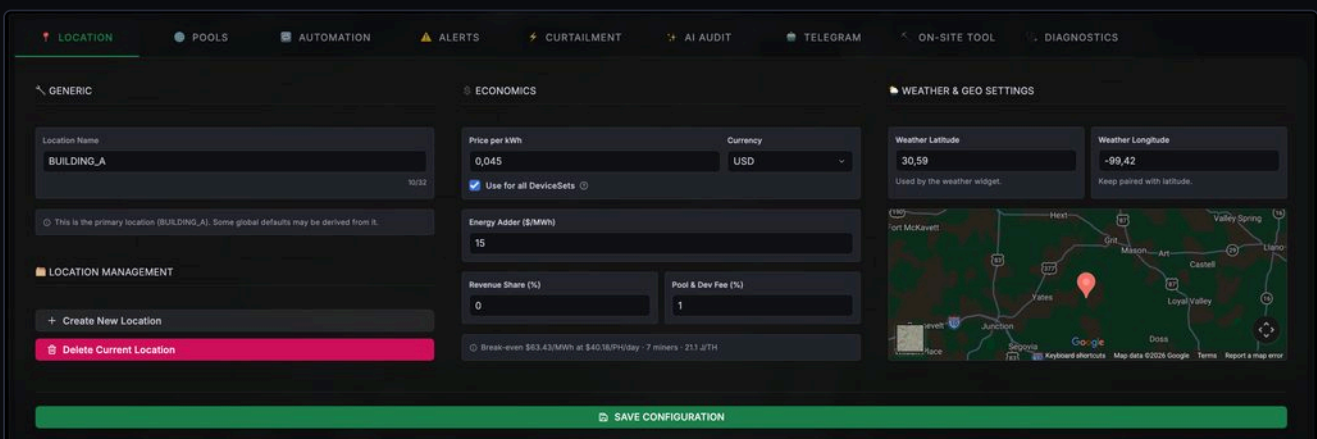
The Settings panel is one click away from anywhere via the Settings link in the top-right menu, and it's organized into tabs covering everything about how a location's fleet is managed — identity, pools, curtailment, and on-site monitoring. Which tabs you see depends on your account's permissions (a few are Manager-only) and the selected **Location**; Telegram and AI Audit are account-wide and editable only from your **primary location** (the account's first location).

### BEFORE YOU START

Most tabs share one "SAVE CONFIGURATION" button — nothing takes effect until you click it, so it's safe to explore and back out. The Location tab is the exception: it saves immediately per-action, as called out below.

### Location

Always visible — the first tab. Sets up the location's identity, its economics — the price per kWh and what goes into the curtailment break-even — and its map coordinates for weather data, and lets you create or delete locations.



## • Generic

### Location Name TEXT

The name for this location — used across the dashboard, in reports, and to group DeviceSets together. As you type, spaces are automatically turned into underscores and anything that isn't a letter, number, or underscore is stripped out, so you can't accidentally save a name with stray punctuation.

**Limit:** 32 characters, shown live as a counter next to the field. · Must be at least 3 characters and not already used by another location on the account.

### Location ID READ-ONLY

The internal ID number for this location. You can't change it — it's shown for reference, mainly useful if you ever need to quote it in a support request.

### PRIMARY LOCATION

If the location you're viewing happens to be the account's *primary* location (the oldest one), you'll see a note reminding you that some account-wide defaults are derived from it. You don't need to do anything about this — it's purely informational.

## • Location Management

### Create New Location BUTTON

Opens a small setup form for adding another location to the account — you'll give it a name, and optionally its coordinates. As soon as it's created, the dashboard switches you over to it automatically.

### Delete Current Location BUTTON

Permanently deletes the location you're currently viewing, together with its settings in this panel. It's blocked while a provisioned Mini PC is still linked to it — unprovision that first — and for the account's last remaining location. Its DeviceSets aren't deleted: they keep running without a location, and if the location's price was used for all DeviceSets, they go back to their own prices.

## • Economics

### Price per kWh / Currency NUMBER, DROPDOWN

An optional electricity price for the whole location. On its own it changes nothing — it only applies once **Use for all DeviceSets** is ticked.

### Use for all DeviceSets CHECKBOX

Unticked, every DeviceSet uses its own Price/kWh from Create Set / Edit Set. Ticked, the location's price overrides the price of every DeviceSet at this location — energy costs, profitability and billing all use it — while each set's own price is kept and applies again as soon as you untick it. The ? next to it says the same. Saving a change here asks you to confirm, because costs and invoices use the new price from that moment on; past periods keep the prices that applied then.

Needs a price per kWh. Billing customers at different rates? Leave it unticked — see the Hosters Quickstart Guide.

### Energy Adder (\$/MWh) NUMBER

What you pay on top of the market price — delivery, transmission, fees. Used for the curtailment break-even only. 0 to 500.

### Revenue Share (%) NUMBER

The part of the mining revenue that goes to someone else, such as a hosting or financing partner. Used for the curtailment break-even only.

### Pool & Dev Fee (%) NUMBER

Your pool's fee plus your firmware's dev fee — a 1% pool fee and a 0.5% dev fee make 1.5%. Taken off the mining revenue in the curtailment break-even and in every revenue and profit figure: Overview, Device-Set Detail, ASIC Detail, the ASIC list and Fleet Health. One value per location: if firmwares with different dev fees share a location, enter a weighted average.

Revenue Share and Pool & Dev Fee together stay below 100%.

### Break-even preview READ-ONLY

One line with the break-even market price of this location's SHA-256 miners at the current hashprice and their spec efficiency, updated as you type; hover it for the full breakdown. How curtailment uses it: Curtailment Setup & Usage Guide.

## WHO CAN CHANGE ECONOMICS

Manager and Staff accounts only: these values change costs, invoices and curtailment for every DeviceSet of the location.

## • Weather & Geo Settings

### Weather Latitude / Weather Longitude NUMBER

The GPS coordinates of the physical site. These feed the weather widget and any weather-aware logic elsewhere in the dashboard, so it's worth setting them accurately rather than leaving them blank — an empty value just means no local weather data will show up for this location. A terrain map below the fields shows where they point, so a mistyped coordinate stands out at once.

Enter decimal coordinates, e.g. `48.208176` / `16.373819`. Leave both blank if you'd rather not use the weather features. The map is loaded from Google Maps.

## Pools

Where mining pools are configured for this location — and how worker names get built.

This tab configures the farm-wide pool policy for this location — pick a **Mode** below (Global or Per-DeviceSet). Independently of that, any individual miner can be given its own **Per-Miner Override** that always wins over the farm-wide policy — a separate mechanism, reached from the miner table's Actions menu, covered in full in the next chapter, *Pool Configuration in Depth*.

## • Generic Settings

### Automatic Pool Management CHECKBOX

The master switch for the farm-wide Global/Per-DeviceSet policy below — with it off, that farm-wide policy stops being pushed and everything below is shown but locked. This does **not** affect any miner with its own enabled Per-Miner Override, though — an override keeps being fully managed regardless of this switch, since it's independently authoritative for that one miner. See the next chapter for the full explanation.

### Config Mode DROPDOWN

**Global Config** applies one pool setup to everything. **Per Device-Set Config** switches every DeviceSet to its own configuration by default — you then use the "Manage" button next to it to configure each one individually, or mark specific DeviceSets as exceptions that fall back to a global setup.

### Worker Name Mode DROPDOWN

Controls what gets automatically appended to the worker name you type for each pool, so every miner reports in under a unique, identifiable name instead of colliding with its neighbors. Options range from "just use the DeviceSet name" up to including each miner's IP octets or its MAC address. A live preview next to it shows exactly what a resulting worker name will look like.

### Delimiter DROPDOWN

The character used to join the parts of the worker name together — either `x` or `_`. A warning appears if you pick the underscore, since a few pools (AntPool in particular) can have trouble with it.

### Hashrate Theft Prevention CHECKBOX

Watches for a miner's pool being pointed somewhere completely unexpected — a real theft/hijack signature — and corrects it. This is separate from routine worker-name drift correction (e.g. after an IP change), which runs automatically for any miner FARMGOD currently manages, including Per-Miner Override miners, regardless of this checkbox. Full details in the next chapter.

## • Pools — per algorithm

Four algorithm tabs — SHA256, Scrypt, Equihash, KHeavyHash — each with up to three pool rows (a primary and two failovers). A filled dot appears on an algorithm's button once it has at least one fully configured pool.

### Pool URL TEXT

The pool's stratum address, e.g. `stratum+tcp://pool.antpool.com:3333`. Just paste the full address — FARMGOD recognizes the protocol prefix automatically.

**Pool Worker** TEXT

Your wallet address or base worker name. The per-device suffix decided by Worker Name Mode above is appended automatically after a dot — you'll see exactly what that looks like in the read-only box right next to this field.

**Password** TEXT

Most pools accept anything here (commonly just `x`); only fill this in if your pool actually requires a specific value.

**API-Key** TEXT

Currently only used for Foundry pools — the field is otherwise locked, since no other supported pool needs it.

 **Automation**

*Automatic, self-healing reactions to problems detected on individual miners — reboots, sleep, or a lower power mode, then automatic recovery once things look normal again.*

• **Generic Settings****Enable Automation** CHECKBOX

Master switch. With it off, none of the rules on the right can fire, regardless of their own individual settings.

**Startup Grace Period** DROPDOWN (5–30 MIN)

How long a miner gets to finish booting after a power-up or reboot before automation starts watching it. This avoids automation "reacting" to the normal, temporary weirdness every miner goes through while it's still starting up.

• **Automation Rules****Zero Hashrate rule** CHECKBOX + SETTINGS

If a miner reports zero hashrate for a set number of minutes (3–10, your choice), automation takes the action you pick — **Reboot** or **Sleep** — to try to bring it back on its own.

**Configure Model / FW Profiles** BUTTON

Opens the Advanced Automation editor, where you set up more detailed self-healing behavior per model and firmware combination detected at this location (described below). The count next to the button shows how many profiles are already configured.

**ADVANCED AUTOMATION · MODEL / FIRMWARE PROFILES**

This editor lets you fine-tune automation separately for each hardware/firmware combination, with four independent rules, each toggled on its own:

- **Thermal Protection** — fires when temperature AND fan load both cross your limits for long enough (Power Mode: Low, or Sleep), paired with a **Recovery** rule that restores the miner once things drop back to safe levels.
- **Underperformance** — fires when hashrate falls below a percentage of what that model should be doing.
- **Missing Hashboard** — fires when a miner reports fewer active hashboards than its model normally has.
- **Missing Fan** — fires when fewer fans are spinning than the model normally has.

Each rule lets you choose how many minutes the condition must persist and which action to take — only options that model/firmware is verified to support are ever offered.

 **Alerts**

*Thresholds that decide when FARMGOD raises an alert about this location's fleet.*

## • Generic Settings

### Enable Alerts ☐

Turns alerting on or off for this location entirely. With it off, none of the six thresholds below matter.

## • Alert Thresholds

Six independent thresholds, each a simple dropdown — no calculation needed, just pick the percentage or temperature that should trigger a warning:

### ASICs Online

Alerts when the share of online ASICs drops below this.

### Miner Temperature

Alerts when the fleet's average temperature climbs above this.

### Fan Speed

Alerts when average fan speed rises above this — usually a sign of overheating.

### Low Performance

Alerts when this share of your ASICs are hashing below their expected performance.

### Not Hashing

Alerts when this share of your ASICs are online but reporting zero hashrate.

### Failover Pool

Alerts when more than this share of your ASICs have fallen back to a failover pool instead of their primary.

## Curtailment

Automatically slows down or stops mining in response to electricity price, Bitcoin price, hashprice, or a fixed schedule — and brings it back once conditions improve.

### FULL REFERENCE: THE CURTAILMENT GUIDE

This tab has five trigger modes (Manual, Scheduled, Electricity Price, Bitcoin Price, Hashprice) and four scopes (Turn Off All, Global Efficiency Threshold, Power Cap, Per Model/FW Threshold), each with its own settings — covered field by field, with worked examples, in the dedicated **FARMGOD Curtailment Setup & Usage Guide**. What follows here is the short version.

### Enable Curtailment ☐

The master switch. Turning it off stops FARMGOD from managing curtailment for this location at all going forward.

#### TURNING CURTAILMENT OFF WHILE MINERS ARE CURTAILED

If any miners are still actively curtailed when you disable this and hit Save, FARMGOD asks what to do with them: **recover them now** as part of the same save, or **leave them stopped/curtailed**. Once curtailment is disabled nothing brings those miners back automatically, so this choice is explicit rather than silent.

### DryRun? ☐ DEFAULT ON

A safety switch for testing a new curtailment strategy without it actually powering anything down yet. Turn this off only once you're confident the settings below are correct for this location.

### Strategy Mode & Curtailment Scope

**Strategy Mode** picks *what condition* triggers curtailment — a fixed schedule, or a live electricity price, Bitcoin price, or hashprice threshold. **Curtailment Scope** picks *which miners* and *how* — stop everyone, stop only the least efficient, cap total power draw, or set a completely separate trigger and action per hardware/firmware model.

**CHANGING STRATEGY WHILE CURTAILMENT IS ACTIVE**

If you change the Strategy Mode or Curtailment Scope while curtailment is currently in effect on some miners, FARMGOD will ask you to confirm first — switching strategy re-evaluates every miner immediately under the new rules, and some may recover while others might stay curtailed, depending on live conditions.

## 🌟 AI Audit

Only editable from your primary location. Configures an AI assistant that periodically reviews your fleet and writes up its findings.

### • Generic Settings

#### Enable AI Auditor CHECKBOX

Turns the automatic audits on. Every diagnosis is always saved as a note on the relevant miner's detail page — enabling this just decides whether it happens automatically on a schedule.

#### Gemini API-Key TEXT

Your own Google Gemini API key — required for every AI feature across the whole dashboard, not just this tab (the AI-powered buttons you'll see elsewhere, like schedule building or diagnostic analysis, all use this same key).

#### AI Model Selection DROPDOWN

Which Gemini model runs the audits. The recommended default is a good balance of cost and quality; the Pro model is more thorough but slower and more rate-limited. Picking a model also nudges the "API Request Delay" setting below to a sensible starting point for that model automatically.

### • Audit & Inspection Parameters

#### Deep Inspection Mode CHECKBOX

Has the AI dig into each miner's log files as part of its review, not just its live stats — more thorough, but takes longer per miner.

#### Performance Threshold DROPDOWN, 50–99%

Miners hashing below this percentage of expected performance get flagged during an audit.

#### Audit Interval DROPDOWN

How often a full audit pass runs. FARMGOD will automatically prevent you from picking an interval too short to realistically get through your whole fleet at the current request delay — it nudges the value up if needed.

#### API Request Delay DROPDOWN

A pause between each miner's AI request, to stay within Gemini's rate limits. A warning icon appears if you've picked a very short delay together with the Pro model, which has tighter limits.

## 📠 Telegram

Only editable from your primary location. Connects a Telegram bot that sends you live notifications about the fleet.

### • Generic Settings

#### Enable Telegram Bot CHECKBOX

Turns the bot on. You'll still need the three fields below filled in for it to actually work.

#### Bot Token TEXT

The token Telegram's BotFather gives you when you create a bot. Paste it here exactly as provided.

#### Admin User ID(s) TEXT

Telegram numeric user IDs allowed to interact with the bot directly (as opposed to just reading channel posts). You can list several separated by commas — typing a space after a number automatically turns it into a comma for you. Leave this blank to let anyone in the notification channel interact with it.

**Notification Channel** **TEXT**

The Telegram channel (e.g. `@my_channel` ) the bot posts its notifications into.

- **Notification Settings**

Six independent toggles decide which kinds of events actually get posted once the bot above is configured:

**ASIC Stats Discrepancies**

Sudden changes in hashrate, temperature, or fan speed.

**ASIC DevFee Pool Switches**

A miner switching to its manufacturer's devfee pool. Only available once Stats Discrepancies above is also on.

**Hardware/Software Modifications**

Physical hardware changes, like a PSU being swapped.

**ASIC Configuration Updates**

A miner's configuration being changed.

**ASIC Provisioning**

Miners being added or moved between DeviceSets.

**AI-Audits**

Sends AI Audit findings to Telegram too, not just as a note on the miner page. Requires an API key to already be set in the AI Audit tab.

- **Support Assistant**

On a self-hosted (VPS) FARMGOD the bot also answers your team's questions in the notification channel. It's on as soon as a Gemini API-Key is set in the AI Audit tab and uses the model selected there.

**Asking**

Mention the bot ( `@yourbot why is 10.0.1.23 offline?` ), send `/ask` with your question, or reply to any of its messages; replying to an answer continues that conversation. It answers in the language you ask in. If Admin User ID(s) are set, only they can ask. Up to 20 questions per hour.

**What it looks at**

These guides and your site's own data (miners, notes, logs, DeviceSets, settings, alerts and curtailment history), read-only. Passwords, keys and tokens are hidden from it.

**What it won't do**

It only answers: it never reboots a miner or changes a setting, but tells you where to do it. When something needs FARMGOD, it ends with a short summary you can forward to support.

**FARMGOD.OS**

Getting this location's Kollektor online and looking after the PC it runs on. Kollektor is the small on-site program that discovers miners on your network and relays commands to and from them; FARMGOD.OS is the Kollektor ready to run on a PC of its own. Everything here applies at once — this tab has no Save button.

On a private VPS, the first two columns (connecting and the installations) are for managers.

- **Connect FARMGOD.OS**

**Download Options** **FARMGOD CLOUD**

**VIRTUALBOX IMAGE** and **USB IMAGE** download your personal FARMGOD.OS, which connects to your account by itself (for 30 days and up to 5 installations). **More download options** adds an image that connects with a pairing code, and the Kollektor for a Linux computer of your own. On a private VPS, FARMGOD prepares your sticks: there is nothing to download here.

**Pairing Code** TEXT + CONNECT

A FARMGOD.OS that isn't tied to an account shows a pairing code on its screen. Enter it under **FARMGOD.OS shows a pairing code?** and click **CONNECT**: it reports in within a minute or two. The screen shows a new code every 15 minutes until one is used.

- Your FARMGOD.OS Installations**

**Downloads & Installations** LIST

Each download (on a private VPS: each prepared stick) with how many installations it connected and until when it connects more, its installations under it, then those connected with a pairing code — each with its location (this one in green) and last login. **Show revoked and expired** lists the rest. A Kollektor installed on your own Linux is not listed here.

**Revoke** BUTTON

On an installation: switches it off — it stops within a few minutes, frees its location for another installation and shows a new pairing code. On a download: that file connects no further installations; ones already connected keep working. Both ask once more first.

**Refuse All Stick Codes** BUTTON, PRIVATE VPS

For a stick that went astray: no stick made until now can connect any more, not even an unused one. Sticks already connected keep running (revoke them above); sticks made from now on connect as usual.

- Provisioning & Remote Host Management**

**Device-UUID / Status** READ-ONLY

Shows which physical on-site box is currently bound to this location, and whether it's currently online, offline, or mid-action (rebooting/restarting/updating).

**Reset UUID** BUTTON

Clears the saved device binding without deleting anything else, so a new or reinstalled on-site box can claim this location's slot. Applies immediately — no separate Save needed.

**Reboot Host / Restart Service / Update Tool** BUTTONS

**Reboot Host** restarts the whole on-site mini PC; **Restart Service** restarts just the Kollektor software; **Update Tool** installs a newer version when one is available. Each shows a confirmation first, then goes into a "waiting" state — greyed out and unclickable — until the on-site box confirms it's back and reporting fresh data. This can take a minute or two, especially for a full reboot or an update.

## Expert

*The Kollektor's discovery and timing settings, and its diagnostics.*

- Device Discovery & Fast Sync**

**Enable Fast Sync** CHECKBOX, DEFAULT ON

Quickly checks for newly created DeviceSets so new hardware doesn't have to wait for the next full scan.

**Fast Sync Interval** SECONDS, 5–300, DEFAULT 5

How often that quick check runs.

**Scan New Sets** CHECKBOX, DEFAULT ON

As soon as Fast Sync spots a brand-new DeviceSet, immediately runs a full network scan for it rather than waiting.

**Enable Auto Scan** CHECKBOX, DEFAULT ON

Periodic network scans that (re)discover miners on site.

**Auto Scan Interval** MINUTES, 1–1440, DEFAULT 15

How often a full scan runs.

**IP Conflict Resolution** DROPDOWN

**Skip** leaves a conflicting device alone; **Update** lets the newer device claim the IP. Choose based on how you'd rather handle two devices ending up on the same address.

- Expert Settings**

These control the timing and concurrency of the background processes that push configuration to your miners and gather hardware data. The defaults work well for most fleets — you're unlikely to need to touch this section unless you're running an unusually large or small deployment and have been advised to tune it.

**Action Trigger Interval** 5-60S, DEFAULT 15

How often pending commands (config pushes, actions) are dispatched to miners.

**Config Refresh** 5-60S, DEFAULT 60

How often the on-site tool re-checks for configuration changes. Kept automatically no shorter than the Action Trigger Interval above.

**Action Trigger Concurrency Mode** AUTO/MANUAL

Auto lets the tool decide how many miners to contact in parallel; Manual lets you set an exact number.

**Kollektor Concurrency Mode** AUTO/MANUAL

Same idea, for the device-discovery/data-gathering process rather than the action dispatcher.

**Hardware Audit Interval** 1-1440 MIN, DEFAULT 12

How often full hardware details (boards, fans, etc.) are re-checked.

**Hardware Fault Note Repeat** 1-1440 MIN, DEFAULT 60

How often a repeat note gets logged for an ongoing hardware fault, so it doesn't spam the miner's history every cycle.

- Diagnostics**

On a private VPS for managers; on FARMGOD Cloud for every account, with its own DeviceSets.

**View Log** DEVICESET + BUTTON

Opens the Kollektor's logs for one DeviceSet: **NMAP LOG** (what its last scan found), **COMMAND LOG**, **ERROR LOG** and **CONFIG SENDER LOG**.

**Analyze Target IP** IP, OPTIONAL LOGIN + BUTTON

Probes a device the Kollektor can reach but FARMGOD doesn't recognize. Pick its IP (the list offers addresses that answered a scan but are no known miner) or type one, add its username and password if it has them, and click **Analyze Target IP**. Once the Kollektor has run the probe, **VIEW RESULT** shows it (see Getting New Hardware Supported in Chapter Six).

## CHAPTER FOUR

## User Management

Reached via the **Users** button in the dashboard nav (Manager-only). Create and manage every account that can log into this FARMGOD instance, decide what each one is allowed to do, and which DeviceSets it owns. If your account is a hosting provider, see the [Hoster's Quickstart Guide](#) for the deeper DeviceSet-ownership and billing workflows built on top of this.

**EVERY ACTION HERE APPLIES IMMEDIATELY**

This only appears for accounts with permission to manage other users. There's no single "Save" button here — every action (creating a user, changing a permission, deleting an account) applies as soon as you confirm it.

**Create User**

Add a new managed user account, with everything scoped correctly from the start.

**Email** **TEXT**

The new user's login email. Must be a valid email address before either "Create" button becomes clickable.

**Manage Set Ownership (optional)** **BUTTON**

Lets you pick which DeviceSets this new user will own before you even finish creating them, so they land in their account already scoped to the right miners.

**Manager/Staff** **CHECKBOX**

Grants full, unrestricted access — every management action, every setting, and full API access. Turning this on automatically also turns on API Access, since a Manager always has it. Use this sparingly: for a regular customer, it's almost always better to leave this off and instead grant specific permissions plus DeviceSet ownership below, once the account exists.

**Enable API Access** **CHECKBOX**

Lets this user authenticate directly against the FARMGOD API with their own credentials, rather than only through the dashboard.

**Create User & Send Invite / Create User** **BUTTON**

Both create the account; the first also emails the new user their login credentials immediately. Use "Create User" alone if you'd rather send credentials later (there's a "Reset & Send Email" action on the user's row for exactly that).

## 👤 Users list

Every existing account on this FARMGOD instance, five per page, with a Refresh button and Prev/Next paging.

### Manager / API Access CHECKBOX (PER ROW)

Same meaning as during creation. Change one and a small Save icon appears on that row to confirm the change — nothing happens until you click it.

### Manage Set Ownership BUTTON (PER ROW)

Opens the DeviceSet ownership picker for an existing user, showing which sets they own, which are available, and letting you transfer a set that's currently owned by someone else (with a confirmation step).

### Manage Permissions BUTTON (PER ROW)

Opens a fine-grained permission editor listing every action a non-Manager user could be allowed to run (grouped by category). Leaving everything unchecked means view-only access. Not shown for Manager accounts, since they already have everything.

### Reset & Send Email BUTTON (PER ROW)

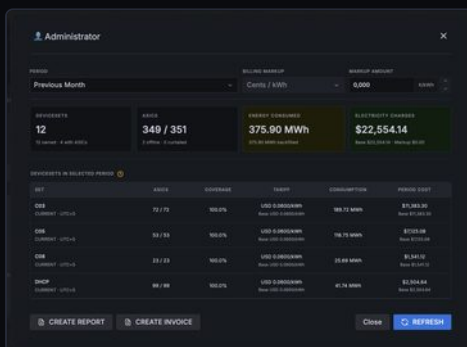
Generates a brand-new password for that user and emails it to them — handy if they've lost access or you created their account without sending credentials up front.

### Delete BUTTON (PER ROW)

Disables the account, releases any DeviceSets it owned, and revokes its access. Asks for confirmation first.

## 👤 Per-user statistics & billing

The magnifying-glass icon next to a user — usage stats, billing markup, and downloadable reports/invoices.



The magnifying-glass icon next to a user opens their usage dashboard: energy consumed, uptime, and cost for a period you choose. A set that currently uses its location's price shows *location price* under its tariff.

From there you can also set a billing markup (a flat cents-per-kWh addition or a percentage) and generate a report or invoice — both downloadable as a PDF with your own billing details, logo, and payment notes filled in.

None of this is mandatory, either — the invoice's company details, logo, and payment notes are entered once and reused automatically after that, but if you already invoice customers through your own accounting or billing system, there's no need to touch FARMGOD's version at all.

## CHAPTER FIVE

## Pool Configuration in Depth

The Pools tab in Settings gets you a working setup quickly, but pool configuration actually has more moving parts than one tab can show at a glance — two independent layers deciding which pool a miner uses, a naming system that keeps every miner identifiable, and a protection system that keeps everything correct after IP changes or hardware moves. This chapter is the complete picture.

### THE ONE IDEA TO TAKE AWAY

Every miner's pool configuration is decided by exactly one of two things: either the farm-wide policy you set in the Pools tab (Global or Per-DeviceSet **Mode**), or — if this specific miner has one — its own **Per-Miner Override**, which always wins regardless of what Mode says. These are two separate mechanisms, not three options in one list.

### Global & Per-DeviceSet Mode

*The farm-wide policy — what every miner uses by default, before any override is considered.*

#### Global mode

One pool configuration, set once in the Pools tab, applies to every DeviceSet at this location. If you need one specific DeviceSet to behave differently, mark it as an exception in the "Manage" screen — an excluded DeviceSet stops inheriting the global setup and gets its own configuration instead, editable from that same screen.

#### Per-DeviceSet mode

Flips the default around: every DeviceSet is expected to have its own pool configuration, which you set up individually via "Manage" → edit. If you haven't configured a particular DeviceSet yet (or have deliberately left its own pool policy switched off), it simply falls back to the global configuration as a safety net, rather than being left with nothing.

### SWITCHING MODES DOESN'T DELETE ANYTHING

A DeviceSet's own saved pool configuration stays in place even while it's not the active source — switching Config Mode back and forth just changes which configuration is currently being used, not what's stored.

### Per-Miner Override

*A separate, independent mechanism that pins one specific miner's pools regardless of the farm-wide Mode.*

Select one miner (or several) in any miner table, choose **Edit Pool Config** from the Actions menu, and turn on "Enable pool override." From that point on, this miner ignores whatever the farm-wide Global/Per-DeviceSet policy says entirely — its own pool rows (up to three per algorithm), and optionally its own Worker Name Mode, take over completely. Turning the override back off hands the miner back to the farm-wide policy immediately.

### THIS IS WHY IT MATTERS: OVERRIDES KEEP WORKING EVEN WITH AUTO POOL CONFIG OFF

An enabled Per-Miner Override is **independently authoritative** for that one miner — FARMGOD keeps enforcing it regardless of the farm-wide **Automatic Pool Management** switch. Turning that switch off only pauses the Global/Per-DeviceSet layer; any overridden miner stays fully managed. This lets you carve out a handful of miners (a customer's machines, a test rig) without disabling pool management for everyone else.

Common uses: pinning a customer's miners to their own wallet/pool while the rest of the fleet mines to the house pool, temporarily isolating a miner for testing, or keeping a specific machine on a pool you don't want touched by a farm-wide policy change.

## Worker Names

How FARMGOD keeps every miner individually identifiable to the pool, without you having to type a unique name for each one by hand.

You type one base worker name (usually your wallet address or account name) once, and **Worker Name Mode** decides what gets automatically appended to it per miner — everything from "just use the DeviceSet name" up to baking in a miner's IP octets or its full MAC address, joined together with whichever **Delimiter** you choose ( `x` or `_` ). This is what lets you see per-miner stats on pools that key off worker name, and what stops two miners from ever accidentally reporting in under the exact same identity.

### The live preview

Both the Pools tab and the per-algorithm pool rows show a read-only preview of exactly what a resulting worker name looks like for the current Mode and Delimiter — use it to sanity-check before saving, especially if your pool has its own naming quirks.

#### WORKER NAME MODE BELONGS TO THE FARM-WIDE POLICY

Worker Name Mode and Delimiter are set once, centrally, in the Pools tab — they're not something you configure per DeviceSet. A Per-Miner Override *can* specify its own Worker Name Mode if you need that one miner named differently than everyone else, but it's optional there; leaving it unset means the override still follows the central naming policy.

## Drift Correction & Theft Prevention

Two different protections live under this one topic — routine self-healing that always runs, and a stronger alert-and-correct feature you switch on deliberately.

A miner's actual, live pool connection can end up not matching what FARMGOD expects it to be, for two very different reasons — and FARMGOD treats them very differently:

### Worker-name drift (routine, always corrected)

If your Worker Name Mode bakes in something that can change — most commonly a miner's IP address after a DHCP renewal — the worker name it's actually reporting under can fall out of sync with what it should be. This isn't a security concern, it's just routine upkeep, so FARMGOD corrects it automatically for every miner it currently manages. That includes any miner with an enabled Per-Miner Override, and it happens **regardless of whether Automatic Pool Management or Hashrate Theft Prevention are switched on** — drift correction doesn't depend on either toggle.

### Pool hijack / wrong-host redirect (requires Hashrate Theft Prevention)

If a miner is pointed at a completely different pool URL than expected — not just a name mismatch, but genuinely mining somewhere else — that's a real theft signature: someone (or something) redirected its rewards. Catching and correcting *this* specifically requires the **Hashrate Theft Prevention** checkbox in the Pools tab to be switched on. With it off, FARMGOD leaves a wrong-host redirect alone entirely — no alert, no automatic correction — since overwriting it without permission could interfere with something a human is intentionally doing.

#### HOW THE TWO TOGGLES COMBINE, IN PRACTICE

| Situation                                  | Worker-name drift | Wrong-pool redirect              |
|--------------------------------------------|-------------------|----------------------------------|
| Auto Pool Management ON, no override       | ✓ Corrected       | ✓ if Theft Prevention is also ON |
| Auto Pool Management ON, override enabled  | ✓ Corrected       | ✓ if Theft Prevention is also ON |
| Auto Pool Management OFF, no override      | — left alone      | — left alone                     |
| Auto Pool Management OFF, override enabled | ✓ Corrected       | ✓ if Theft Prevention is also ON |

In short: enabling a Per-Miner Override always brings that one miner back under full protection, even in an otherwise fully hands-off location — that's the whole point of an override being independently authoritative.

## CHAPTER SIX

## Supported ASICs & Custom Firmwares

FARMGOD doesn't treat every miner the same way behind the scenes — which actions are available for a given machine (in the Actions menu and in Automation's rules) depends on its exact hardware model and firmware. This chapter explains what's supported today, what firmware differences change, and what happens when FARMGOD meets hardware it doesn't recognize yet.

### Supported Hardware

A growing list, spanning every major ASIC manufacturer and several smaller/open-source ones.

FARMGOD recognizes hardware from every major ASIC manufacturer and several smaller/open-source ones, each with its supported algorithm(s) noted below. New models are added on an ongoing basis — this is a large, actively maintained catalogue, not a fixed one.



(MicroBT)

ALGORITHM SHA256

NOTES By far the largest catalogue — many hardware sub-revisions are tracked individually so specs like power draw and efficiency stay accurate per revision.

**BITMAIN**

(Bitmain)

ALGORITHM SHA256, Scrypt, KHeavyHash

NOTES Broadest model range across multiple algorithms; two firmware branches (ePIC, MaraFW) are currently unverified — see *Custom Firmwares*.

**AvalonMiner**

(Canaan)

ALGORITHM SHA256

NOTES One of the earliest ASIC manufacturers, still actively shipping new SHA256 models.

**Goldshell**

ALGORITHM Scrypt, KHeavyHash

NOTES A multi-algorithm lineup spanning several smaller-coin ASIC families.



(Bitdeer)

ALGORITHM SHA256

NOTES Bitdeer's own in-house hardware line.

**Elphapex**

ALGORITHM Scrypt

NOTES A Dogecoin/Litecoin-focused ASIC line.

**VolcMiner**

ALGORITHM KHeavyHash

NOTES A Kaspa-focused ASIC line.

**BitAxe · NerdQAxe**

ALGORITHM SHA256

NOTES Open-source, AxeOS-based hardware.

**BRAIINS**

ALGORITHM SHA256

NOTES Braiins' own home-mining hardware, running its own firmware.

**BitForge · BnMiner**

ALGORITHM SHA256

NOTES Smaller, newer catalogue entries.

## Custom Firmwares

*Mainly relevant for Antminer hardware — different firmware on the same physical board can support meaningfully different actions.*

### Stock

The manufacturer's original firmware. Full action support, including reboot, power mode, power limit, sleep/wake, curtailment, log export, admin-password update, network config, and (Antminer-specific) preheat.

### Vnish

Everything Stock supports, plus LED-blink support for physically locating a unit in a rack.

### BraiinsOS

Supports the core actions (reboot, power mode/limit, sleep/wake, curtailment, password update), but not log export, network config, or preheat.

### ePIC

A more limited action set (reboot, sleep/wake, curtailment, password update) — and currently unverified (see below).

### MaraFW

Marathon's own firmware running on genuine Bitmain hardware. The most limited action set of the group — reboot isn't currently available at all, only pool updates, sleep/wake, and curtailment — and also currently unverified.

Every other supported vendor — Whatsminer, AvalonMiner, Sealminer, Goldshell, and the rest — is currently treated as running one firmware, so there's no separate firmware choice to make for those; whatever actions that model supports are simply always available.

## What "Verified" Means

*Every hardware/firmware combination is marked verified or unverified — and that distinction quietly changes what you can safely automate.*

**Verified** means FARMGOD has confirmed that a specific action genuinely works against real hardware running that firmware — not just that it should work in theory. **Unverified** combinations (currently ePIC and MaraFW firmware, and one smaller hardware entry) still show their listed actions as available, but with less confidence behind them.

### WHERE THIS ACTUALLY MATTERS TO YOU

Manual actions and Power-Cap curtailment thresholds are offered either way — you're in the loop, confirming each one. **Unattended Automation rules** are stricter: an action can only fire on its own, unwatched, if that model/firmware combination is marked verified. Automation acting alone is held to a higher bar than something you personally click and confirm.

## Getting New Hardware Supported

*FARMGOD can help identify a miner it doesn't recognize yet — but adding real support is still a deliberate, human-reviewed step, not instant.*

### Analyze Target IP

A tool in Settings' Expert tab (Diagnostics; on a private VPS for managers only) that points at an unrecognized device's IP address and probes it with every protocol FARMGOD knows about (cgminer API, common vendor HTTP endpoints, gRPC for BraiinsOS-family firmware, and a general network scan), then shows the raw result.

### AI Analysis

From that same result, AI can take a first pass at identifying the hardware and drafting what its specs and supported actions probably are, based purely on the evidence in the probe — clearly marked as an unverified, first-pass guess, never fabricating anything the probe didn't actually show.

**THIS DRAFTS A STARTING POINT — IT DOESN'T SHIP SUPPORT BY ITSELF**

Turning that draft into genuine, working support for a new model or firmware is still a deliberate engineering step — reviewing the draft, testing against real hardware, and releasing it in an update. Expect newly discovered hardware to take a little while to go from "detected" to "fully supported," rather than becoming available immediately after one scan.



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