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ZeroThink User Manual

Studio, Neural Vault, AI PDF reports, research workflows, API keys, QuantumZero, OpenZero bridge, and safe day-to-day operation.

ZeroThink

Users, Pro users, researchers, teams, developers, and admins

Stable reader + downloadable PDF

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How To Use This Manual

Read the first pages once, then jump to the task-specific chapters.

ZeroThink User Manual is designed as a stable online reader and a downloadable PDF. The reader keeps navigation without heavy scroll effects, and the PDF is clean, readable, and suitable for forwarding or printing.

Start with the overview and quick start.

Use the operations chapters when doing live work.

Use troubleshooting and FAQ before asking for support.

Do not paste ^{02 / 45} secrets, private keys, API keys, customer data, or live server logs into public channels.

Source Map

The manual is based on public pages, local docs, and rollout notes.

These manuals consolidate the current public product story, live docs, release notes, and operational commands into a single readable book. They are intentionally public-safe.

ZeroThink live site: <https://zerothink.talktoai.org/>

ZeroThink docs: <https://docs.talktoai.org/zerothink/>

PDF Creator docs: <https://docs.talktoai.org/pdf-creator/>

Models and API keys docs: <https://docs.talktoai.org/models-and-api-keys/>

Research Pipeline docs: <https://docs.talktoai.org/research-pipeline/>

ZeroThink visual map

A visual orientation page for the manual.



The image is not a screenshot. It is a visual map for the product: the control surface, protected assets, operating paths, and review mindset this manual teaches.

Use the cover language as a memory aid for the product workflow.

Return to the table of contents when the task becomes specific.

Use commands only after reading the safety notes.

What ZeroThink Is

ZeroThink is the web intelligence workbench in the TalkToAI ecosystem: a Google-login studio for reasoning, model routing, provider keys, AI PDF reports, research-paper creation, QuantumZero context, ZMath links, DNA links, and OpenZero bridge behavior.

ZeroThink is the web intelligence workbench in the TalkToAI ecosystem: a Google-login studio for reasoning, model routing, provider keys, AI PDF reports, research-paper creation, QuantumZero context, ZMath links, DNA links, and OpenZero bridge behavior.

Use it when a normal answer needs to become structured work.

Treat it as a cockpit: prompts, keys, reports, sources, and outputs belong in clear lanes.

The best results come from giving the system a role, audience, output format, and evidence needs.

Do next

Open Studio, sign in with Google, and choose the tool lane that matches the task.

Start with a short test prompt before asking for a long report or PDF.

Account And Google Login

ZeroThink uses Google login so the account identity is the Google account, not a separate password database.

ZeroThink uses Google login so the account identity is the Google account, not a separate password database.

Use the same Google account when returning to Studio.

Admin and Pro settings should be attached to the exact email address.

Keep account access secure because saved keys and workflow access depend on it.

Do next

If a feature seems missing, confirm you are logged in with the expected Google account.

Refresh the page after a role or entitlement is changed.

Studio First Tour

The Studio is the main working surface. It should be understood as a set of lanes rather than one single chat box.

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General reasoning for everyday tasks.

Research and paper creation for source-led work.

PDF Creator for shareable reports.

Neural Vault for user-owned provider keys.

OpenZero bridge for self-hosted local AI nodes.

Do next

Pick the lane first, then prompt with the desired artifact.

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Prompting For Useful Work

ZeroThink performs best when the request names the audience, structure, constraints, and next action.

ZeroThink performs best when the request names the audience, structure, constraints, and next action.

Say whether the output is for a user, investor, university reader, developer, server operator, or business owner.

Ask for tables, checklists, risk notes, commands, or citations when they matter.

Ask the system to state uncertainty when evidence is incomplete.

Do next

Use: Create a concise report for X audience with sections A/B/C and limitations.

Use: Turn this into a PDF with a summary, checklist, FAQ, and next steps.

Model Routing

Model routing means selecting the best available provider/model lane for the job instead of assuming one model should do everything.

Model routing means selecting the best available provider/model lane for the job instead of assuming one model should do everything.

Fast chat is different from deep report writing.

Code and server operations need stricter reasoning and safer output.

Hosted providers can handle larger models that local machines cannot run.

Do next

Use lower-cost lanes for drafts and stronger lanes for final reports.

Neural Vault

Neural Vault is the user-facing place for provider and node API keys. The principle is simple: users bring their own keys where possible, and keys should not be typed into random prompts.

Neural Vault is the user-facing place for provider and node API keys. The principle is simple: users bring their own keys where possible, and keys should not be typed into random prompts.

Store provider keys only in the intended key-management UI.

Rotate keys if they are pasted into the wrong place.

Keep browser-supplied server URLs restricted; server-side registered endpoints are safer.

Do next

Add key, test with a small prompt, then remove or rotate it if no longer needed.

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ZeroThink API Key Basics

ZeroThink API keys should be treated like production credentials. They identify usage and should be scoped, stored, and revoked deliberately.

ZeroThink API keys should be treated like production credentials. They identify usage and should be scoped, stored, and revoked deliberately.

Do not publish keys in GitHub, screenshots, PDFs, or chat logs.

Admin users need add/remove/revoke workflows.

Usage limits protect shared resources.

Do next

Keep personal admin keys separate from public testing keys.

OpenZero Bridge

The OpenZero bridge lets ZeroThink work with a user-owned local OpenZero node where supported. This is important because the user can install OpenZero, create a node key, and bring private compute into ZeroThink.

The OpenZero bridge lets ZeroThink work with a user-owned local OpenZero node where supported. This is important because the user can install OpenZero, create a node key, and bring private compute into ZeroThink.

Use server-registered OpenZero endpoints, not arbitrary browser-supplied URLs.

Shared trial resources should be limited so public usage does not burn the owner's machine.

A premium path is to let users graduate from shared testing to their own node.

Do next

Install OpenZero, create a node key, then add that key in ZeroThink where the bridge is enabled.

Free, Pro, And Shared Resource Boundaries

ZeroThink can offer free access while reserving heavier provider routes, QuantumZero, hosted models, or shared OpenZero bridge resources for Pro users.

ZeroThink can offer free access while reserving heavier provider routes, QuantumZero, hosted models, or shared OpenZero bridge resources for Pro users.

Free users should understand when they hit a limit.

Pro users should see the value: better model lanes, report tools, provider integrations, and stronger quotas.

Admin accounts may be unlimited or near-unlimited by policy.

Do next

Explain limits in plain language, not internal server terms.

AI PDF Creator

The AI PDF Creator should take natural requests such as create a PDF and convert them into structured reports with sections, evidence notes, limitations, and download artifacts.

The AI PDF Creator should take natural requests such as create a PDF and convert them into structured reports with sections, evidence notes, limitations, and download artifacts.

Ask for audience and purpose.

Ask for sources when factual claims matter.

Use short page sections rather than giant walls of text.

Keep medical/legal/financial content bounded and reviewed.

Do next

Prompt: Create a PDF report about OpenZero for beginners with setup steps, model limits, security notes, FAQ, and links.

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Research Paper Creator

The Research Paper Creator is for source-led drafting: scope, search protocol, source ledger, claim map, outline, draft, critique, revision, and export.

The Research Paper Creator is for source-led drafting: scope, search protocol, source ledger, claim map, outline, draft, critique, revision, and export.

Do not treat generated citations as finished until checked.

Separate claims, evidence, limitations, and speculation.

Use the source ledger as the memory of what was actually inspected.

Do next

Start with a research question and an audience.

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Literature Workspace

The literature workspace supports survey-style workflows, topic expert identification, generative UI, and researcher-in-the-loop validation.

The literature workspace supports survey-style workflows, topic expert identification, generative UI, and researcher-in-the-loop validation.

Use it for structured academic exploration.

Keep raw notes separate from final claims.

Human validation remains required.

Do next

Export only after the ledger and claim map are coherent.

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QuantumZero Definition

QuantumZero is the Pro research lane that combines classical LLM reasoning with quantum-cloud telemetry/context in the loop. It is not a claim that qubits replace GPUs for normal chat.

QuantumZero is the Pro research lane that combines classical LLM reasoning with quantum-cloud telemetry/context in the loop. It is not a claim that qubits replace GPUs for normal chat.

Explain the boundary clearly.

Use it for research framing, not magic claims.

Keep provider telemetry and limits transparent.

Do next

Use careful wording when sharing outputs with academics or investors.

ZMath And Encryption Links

ZMath belongs to the security and file-protection lane. ZeroThink may route users to ZMath concepts when outputs involve protected artifacts, private reports, or evidence packets.

ZMath belongs to the security and file-protection lane. ZeroThink may route users to ZMath concepts when outputs involve protected artifacts, private reports, or evidence packets.

Do not publish secrets in public pages.

Treat encryption claims carefully.

Keep passwords, pattern images, and private files out of screenshots.

Do next

Use ZMath docs for file-protection framing.

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DNA Lab Links

DNA Lab is research and education support. Health output is not diagnosis, treatment advice, or a replacement for qualified clinical review.

DNA Lab is research and education support. Health output is not diagnosis, treatment advice, or a replacement for qualified clinical review.

Use non-diagnostic language.

Make evidence boundaries visible.

Keep raw DNA data private.

Do next

When creating DNA PDFs, include uncertainty and limitations.

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Zero Library

Zero Library and proof pages help users inspect the ecosystem rather than only hear claims about it.

Zero Library and proof pages help users inspect the ecosystem rather than only hear claims about it.

Link to docs, GitHub, videos, product pages, and proof routes.

Use public-safe evidence.

Avoid leaking private implementation detail.

Do next

Attach proof links when writing funding, academic, or business material.

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Provider Keys

Provider keys can include hosted model services and OpenAI-compatible endpoints. Some providers are paid or bring-your-own-key.

Provider keys can include hosted model services and OpenAI-compatible endpoints. Some providers are paid or bring-your-own-key.

Tell users when a hosted provider may require a paid account.

Keep key labels understandable.

Test each key with a tiny request first.

Do next

If a provider fails, check key validity, quota, region, model slug, and endpoint URL.

Featherless And Hosted Models

Hosted model providers can expose larger models that local machines cannot safely run. ZeroThink should tell users when those providers require a paid or BYO API key.

Hosted model providers can expose larger models that local machines cannot safely run. ZeroThink should tell users when those providers require a paid or BYO API key.

Use hosted providers for large models.

Use OpenZero/local models for privacy and ownership.

Avoid promising free access to paid third-party resources.

Do next

Record provider name, model name, and usage boundary in the report.

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Local Model Size Rule

For current OpenZero target machines, local model files should stay under 15 GB unless the user knows the hardware can handle more.

For current OpenZero target machines, local model files should stay under 15 GB unless the user knows the hardware can handle more.

Use smaller quantized models for CPU-friendly local use.

Use hosted providers for large models.

Warn before recommending huge downloads.

Do next

Mention model size before telling users to install one.

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GLM And Multilingual Work

Chinese and multilingual models can be useful when routed correctly. Keep local resource limits visible and use hosted routes when models exceed practical machine limits.

Chinese and multilingual models can be useful when routed correctly. Keep local resource limits visible and use hosted routes when models exceed practical machine limits.

Document model family, quantization, size, and provider.

Use Q5/Q6 only when memory permits.

Use Q3/Q4 for lighter local experimentation.

Do next

Always check model size before placing it in an OpenZero local recommendation.

CLI Handoff

ZeroThink CLI is the terminal/agent lane. It can help with files, server checks, PDFs, browser research, SSH profiles, and bounded autopilot when configured safely.

ZeroThink CLI is the terminal/agent lane. It can help with files, server checks, PDFs, browser research, SSH profiles, and bounded autopilot when configured safely.

Back up before live edits.

Avoid destructive commands unless explicitly reviewed.

Separate public docs from private server credentials.

Do next

Use CLI for implementation tasks; use Studio for planning, report writing, and review.

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Server And File Workflows

When ZeroThink is used to plan server or file work, the output should include backup steps, verification commands, and rollback notes.

When ZeroThink is used to plan server or file work, the output should include backup steps, verification commands, and rollback notes.

Never expose SSH keys or tokens.

Use read-only checks before write actions.

Write exact commands only when the target is clear.

Do next

Ask for OS, path, service, domain, and desired outcome before generating commands.

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Security And Secrets

Public docs, PDFs, screenshots, and logs must not expose API keys, OAuth secrets, SSH keys, private server paths, customer data, runtime logs, or unpublished private IP.

Public docs, PDFs, screenshots, and logs must not expose API keys, OAuth secrets, SSH keys, private server paths, customer data, runtime logs, or unpublished private IP.

Assume screenshots can leak data.

Redact logs before sharing.

Use vault fields, not prompt text, for credentials.

Do next

If a key appears in public, revoke and rotate it.

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Admin And Master Mode

Admin/master tools should support adding, removing, revoking, and auditing keys/users without requiring database edits by hand.

Admin/master tools should support adding, removing, revoking, and auditing keys/users without requiring database edits by hand.

Restrict admin routes.

Log administrative changes.

Keep admin identity tied to the expected Google account.

Do next

Test with the admin account first, then test a normal user account.

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Usage Limits

Usage limits protect shared resources, especially when ZeroThink offers trial access to owner-operated OpenZero resources or paid provider routes.

Usage limits protect shared resources, especially when ZeroThink offers trial access to owner-operated OpenZero resources or paid provider routes.

Use small trial caps for public demos.

Tell users how to add their own OpenZero node key.

Keep admin/unlimited accounts explicit.

Do next

A helpful pattern: five shared messages, then ask the user to install OpenZero or add a personal key.

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Output Quality Review

Before exporting, inspect whether the answer is accurate, structured, source-aware, and appropriate for the reader.

Before exporting, inspect whether the answer is accurate, structured, source-aware, and appropriate for the reader.

Check headings, tables, citations, limitations, and next steps.

Remove internal notes.

Avoid hype where a serious reviewer expects evidence.

Do next

Read the final PDF once as the target audience.

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Common Failure: Missing Feature

If a user cannot see a feature such as ZeroThink API, OpenZero bridge, or Neural Vault, the cause may be role, cache, deployment, or account mismatch.

If a user cannot see a feature such as ZeroThink API, OpenZero bridge, or Neural Vault, the cause may be role, cache, deployment, or account mismatch.

Confirm Google account.

Hard refresh.

Check role/Pro state.

Check server deployment and route permissions.

Do next

Compare admin account and normal account views.

Common Failure: Provider Error

Provider errors usually come from missing key, wrong endpoint, model not enabled, exhausted quota, or a server-side config issue.

Provider errors usually come from missing key, wrong endpoint, model not enabled, exhausted quota, or a server-side config issue.

Test key with a small request.

Check provider dashboard quota.

Check exact model slug.

Avoid exposing full key in logs.

Do next

Record only the last four characters of keys in support notes.

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Common Failure: PDF Too Thin

A PDF request can fail quality expectations when the prompt asks for a PDF but gives no audience, data, sections, or evidence requirement.

A PDF request can fail quality expectations when the prompt asks for a PDF but gives no audience, data, sections, or evidence requirement.

Ask for audience, length, sections, tone, proof needs, and format.

Use staged generation for long reports.

Review before export.

Do next

Use the manual-style template: purpose, setup, workflows, troubleshooting, FAQ, glossary.

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Common Failure: Browser Cache

After deployments, users may not see options immediately because cached HTML, JS, or CSS is still active.

After deployments, users may not see options immediately because cached HTML, JS, or CSS is still active.

Use a versioned asset URL.

Hard refresh.

Check live server file contents.

Use cache-busted query strings for verification.

Do next

Verify through direct HTTP and browser screenshots.

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Support Checklist

A good support request should include account email, browser, feature, exact error, time, and what was tried.

A good support request should include account email, browser, feature, exact error, time, and what was tried.

Never include full keys or private files.

Screenshot only safe parts of the UI.

State whether the user is Free, Pro, admin, or BYO provider.

Do next

Support form fields should guide the user toward safe details.

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Daily Workflow

For normal users: ask, refine, choose output, save, and only then export. For serious work: source-led research, review, then PDF.

For normal users: ask, refine, choose output, save, and only then export. For serious work: source-led research, review, then PDF.

Use quick chat for exploration.

Use report tools for deliverables.

Use research tools for claims.

Do next

End each session with the next best action.

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Team Workflow

Teams should standardize prompt patterns, naming, report templates, provider key policy, and review steps.

Teams should standardize prompt patterns, naming, report templates, provider key policy, and review steps.

Decide what can be public.

Decide who owns provider keys.

Keep a shared proof library.

Do next

Use one template for reports and one for support notes.

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Reviewer Workflow

For investors, professors, or technical reviewers, ZeroThink outputs should show structure, boundaries, and proof routes.

For investors, professors, or technical reviewers, ZeroThink outputs should show structure, boundaries, and proof routes.

Start with a one-page summary.

Include live links and public repos.

Avoid unsupported claims.

Do next

Use the docs proof library and ecosystem guide as context.

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Glossary

ZeroThink terms become easier when each word maps to a workflow: Studio is the workbench, Vault is keys, PDF Creator is reports, Paper Creator is research, QuantumZero is the Pro quantum-context lane, OpenZero is local compute.

ZeroThink terms become easier when each word maps to a workflow: Studio is the workbench, Vault is keys, PDF Creator is reports, Paper Creator is research, QuantumZero is the Pro quantum-context lane, OpenZero is local compute.

Use simple definitions in public pages.

Do not overload one page with every subsystem.

Send users to manuals for depth.

Do next

Keep glossary language stable across docs.

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Command And URL Appendix

Use these only in the right context.

Commands and URLs are repeated here so operators can find them quickly. Read the chapter before running commands on production systems.

Open Studio: <https://zerothink.talktoai.org/studio>

Open Research Paper Creator: <https://zerothink.talktoai.org/research-paper-creator>

Open docs: ^{42 / 45}<https://docs.talktoai.org/zerothink/>

Safe Operations Checklist

Run this before serious changes.

A manual is only useful when it changes behavior. This checklist is the calm-before-action page for live work.

Confirm the exact account, server, domain, or project.

Back up before destructive or live changes.

Use read-only checks before write actions.

Keep keys and secrets out of prompts, screenshots, and PDFs.

Verify the result in a browser and with a direct HTTP or command-line check.

Record ^{43 / 45} what changed and how to roll it back.

Questions And Answers

Fast answers for the most common manual questions.

These answers are intentionally short. Use the chapter pages for operational detail.

Do I need Google login? — Yes. ZeroThink uses Google login for account identity.

Can ZeroThink create PDFs? — Yes. Ask naturally, but include audience, sections, evidence needs, and limitations for better results.

Where should API keys go? — Use Neural Vault or the dedicated key UI, not normal prompt text.

Is QuantumZero quantum computing replacing the LLM? — No. It is a hybrid research lane: classical LLM reasoning plus quantum-cloud telemetry/context where configured.

Can I connect my own OpenZero node? — Where enabled, install OpenZero, create a node key, and add it through the supported bridge/key flow.

Next Best Step

Do the smallest useful next action.

ZeroThink becomes easier when the next action is explicit. Pick the task, read the matching chapter, run a tiny verification, then scale up only after the first result works.

New user: read overview, quick start, and glossary.

Operator: read install, security, backup, and troubleshooting chapters.

Reviewer: read source map, boundaries, and proof links.

Team: ^{45 / 45} standardize keys, templates, support notes, and update windows.