

# CAST\_NODE\_01 - One-Page App Summary

Repo-backed summary generated from local source files only.

## WHAT IT IS

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CAST\_NODE\_01 is the local workstation and public interface for aristhorne.systems. It pairs a public narrative site with an operator console for Neuralese translation, event routing, diagnostics, and deployment support.

## WHO IT'S FOR

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Primary user/persona: a technical, artistic, strategic, or venue collaborator evaluating how to integrate with CAST\_NODE, Earth Station Alpha, or related deployment workflows.

## WHAT IT DOES

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- Accepts public attendance, collaboration, and press intake through the site.
- Runs a dual-pane operator console for structured input and output review.
- Compiles prompts into linguistic, spatial/visual, and somatic/frequential layers.
- Provides audio-reactive analysis, calibration, playback, dispatch, and export utilities.
- Tracks health, artifacts, broadcasts, and deferred jobs from the operator console.
- Publishes public-facing pages for deployment, manifesto, archive, economics, and handshake routing.

## HOW IT WORKS

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- Site layer: Next.js public pages describe Genesis, Architecture, Deployment, Partner, Archive, Press Kit, Handshake, Economics, and Tickets.
- Operator layer: ``app/api/*`` routes drive bridge execution, telemetry, exports, health checks, signups, and artifact access.
- Local workflow: TypeScript libraries under ``lib/*`` coordinate records, routing, compilation, batch jobs, broadcasts, and diagnostics.
- Python support: ``python/audio_reactive.py``, ``python/comfyui_client.py``, and ``python/c2pa_manifest.py`` handle analysis, optional render orchestration, and provenance scaffolding.
- Storage: local files under ``artifacts/``, ``docs/reports/``, and ledger-style signup records. Database: Not found in repo.

## HOW TO RUN

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1. ``npm install``
2. ``copy .env.example .env.local``
3. Set ``OPENAI_API_KEY`` in ``.env.local`` if live inference is needed
4. ``npm run dev``
5. Open ``http://localhost:3000``