

LTX 3 — VERCEL EDITION

Technical Product Guide

Output Specifications, Performance & Integration Details

A deep-dive into LTX 3 technical specifications, output quality benchmarks, aspect ratio support, and integration options for developers and power users.

Official site: <https://www.ltx-3.com/> | **Version:** 0.1 | **Updated:** May 2026

Technical Overview

LTX 3 is built on a state-of-the-art generative AI architecture optimized for browser-based inference. The platform leverages WebGPU and hardware acceleration to deliver real-time video generation without cloud round-trips.

Browser-Native Inference
All generation runs locally using WebGPU compute shaders. No server-side processing means zero latency and full privacy.

Model Architecture
Diffusion-based video generator with temporal attention layers for consistent motion across frames.

Output Specifications

Setting	Supported Options
Aspect Ratio	16:9 (landscape), 9:16 (portrait), 4:3, 3:4, 21:9 (ultrawide), 1:1 (square)
Resolution	720p HD (1280x720), 1080p Full HD (1920x1080)
Clip Duration	5 seconds, 10 seconds
Frame Rate	24 fps (standard), 30 fps (high motion scenes)
Export Format	MP4 (H.264), WebM (VP9)

Performance Benchmarks

LTX 3 is optimized for modern hardware. Generation times vary based on selected resolution, duration, and system capabilities.

Resolution	Duration	Approx. Generation Time
720p	5 seconds	15–30 seconds
720p	10 seconds	30–60 seconds
1080p	5 seconds	45–90 seconds
1080p	10 seconds	90–180 seconds

Performance depends on GPU hardware (WebGPU-compatible), available system memory, and browser vendor. Chrome and Edge offer the best WebGPU support.

System Requirements

- **Browser:** Chrome 113+, Edge 113+, or Firefox 120+ (partial support)
- **GPU:** WebGPU-compatible GPU with at least 4 GB VRAM
- **RAM:** 8 GB system memory minimum; 16 GB recommended
- **Storage:** 500 MB free space for model cache
- **Internet:** Required for initial model download; generation runs offline thereafter

Integration Options

Direct Browser Access

No integration needed — simply visit ltx-3.com and start generating. Ideal for individual creators and casual users.

API Access

Programmatic generation via REST API. Submit prompts and retrieve video output for integration into existing workflows and applications.

Embedded Web Component

Embed the LTX 3 generator as a web component on your own site. Customize UI and integrate with your authentication system.

Batch Processing

Queue multiple generation jobs for automated content pipelines. Supports webhook callbacks for job completion notifications.

Comparison: LTX 3 vs. Previous Generation

Feature	LTX 3	Previous Generation
Max Resolution	1080p Full HD	720p HD
Aspect Ratios	6 options	3 options
Generation Engine	WebGPU-accelerated	WebGL-based
Export Formats	MP4 + WebM	MP4 only
Frame Consistency	Temporal attention + improved motion coherence	Basic frame interpolation

Developer Quick Start

1. Visit <https://www.ltx-3.com/> and sign up for an account
2. Navigate to the API section in your account settings to generate an API key
3. Use the REST API endpoint to submit generation jobs programmatically
4. Poll for job completion or set up a webhook URL for automatic notifications
5. Download or stream the generated video via the provided output URL

Full API documentation is available at <https://www.ltx-3.com/docs>.

Related Resources

- Official site: <https://www.ltx-3.com/>
- API Documentation: <https://www.ltx-3.com/docs>
- Pricing: <https://www.ltx-3.com/pricing>
- Status: <https://www.ltx-3.com/status>

Benchmark times are approximate and based on testing with Chrome 125 on a system with an NVIDIA RTX 3060 GPU and 16 GB RAM. Actual performance may vary.

