DeepSeek R1

Vs

o3-mini

The Al Battle Everyone's Talking About!



Which model offers your business the

Best Performance,

Cost Efficiency &

Flexibility?

Let's find out.

What is DeepSeek R1?

Launched:

20 January 2025

Availability:

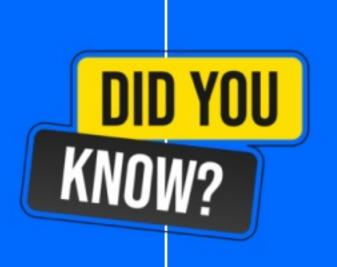
Open-source under the MIT license

Customization:

Fully customizable with complete control

Access:

Currently free, with no vendor lock-in



DeepSeek R1's \$6M training cost claim is far below GPT-4's \$100M, although the figure remains under debate.

What is OpenAl o3-mini?

Launched:

31 January 2025

Customization:

Limited flexibility

Availability:

Closed source, OpenAl's proprietary model

Access:

Available only through OpenAl's ecosystem



What Makes Each Model Unique?

Feature/Benefit	DeepSeek R1	o3 mini
Total Parameters	671B	~200B
Active Parameters/Token	37B	Full dense
Context Window	128K tokens	200K tokens
Architecture	MoE - Scalable, activates only a subset of parameters per task	Dense Transformer – Uses full model for each task for consistent output

Source: OpenAl & DeepSeek

DeepSeek R1 is more parameter-efficient, while o3-mini offers a longer context window.

Which Model is More Cost-Effective?

Cost Factor	DeepSeek R1	o3 mini
API Cost (per M tokens)	\$2.19	\$4.40

Source: OpenAl & DeepSeek

Compared to o3-mini, DeepSeek R1 costs about
50% less per API request.

Which Model Excels Where?

Parameter	DeepSeek R1	o3-mini (2025-01-31-medium)
Global Avg	71.57	70.01
Reasoning	83.17	86.33
Coding	66.74	65.38
Math	80.71	72.37
Data Analysis	69.78	66.56
Language	48.53	46.26
IF	80.51	83.16

Source: LiveBench.ai

- ◆ We're comparing o3-mini (2025-01-31-medium), the default version available to everyone, against DeepSeek R1 to assess their strengths.
- DeepSeek R1 performs better in Math, Data Analysis, making it stronger in numerical problem-solving and structured analytics.
- ◆o3-mini leads in Reasoning and IF indicating better logical inference, adaptability, and programming capabilities.



Which One Is Safer?

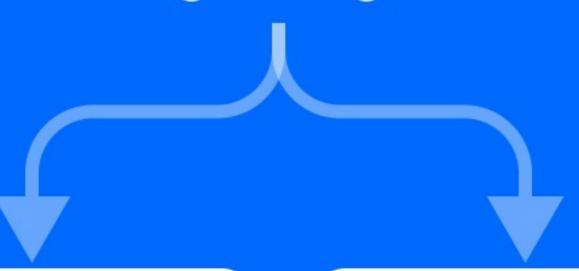
Model	Unsafe Responses (%)
o3-mini	1.19%
DeepSeek R1	11.98%

Source: "o3-mini vs DeepSeek-R1: Which One is Safer?" by Arrieta et al. (2025)

DeepSeek R1 exhibits a higher percentage of unsafe responses (11.98%), indicating that additional safeguards may be necessary for customer-facing applications.

Which One Fits Your Needs?

Choosing the Right Model





DeepSeek R1 for:

- Cost-efficient operations
- Scalability & resource optimization



o3-mini for:

- Consistent performance
- Better safety & reliability



Need Help Implementing DeepSeek R1 or o3 mini?

Get in Touch With Our Al consultants