GPUpartner

VALIDATION REPORT · VIDEO GENERATION

HunyuanVideo 1.5

on Arc B580 · 6-bit (GGUF Q6_K)

STATUS · NOV 22, 2026

Not validated

2 of 3 checks pass

HunyuanVideo 1.5 at 6-bit runs on the Arc B580, about 2.4 h per clip.

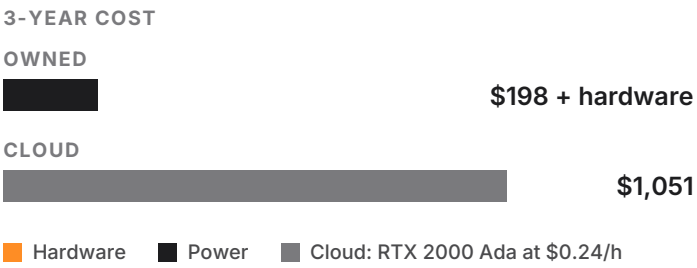
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	12.0 GB usable	10.6 GB needed	PASS
Headroom	5% free	1.4 GB free (12%)	PASS
Time per clip	under 15 min	2.4 h	FAIL

Targets: a clip in under 15 min, and 5% of memory left free. Calculated from published specs, not benchmarked.

BUDGET

HARDWARE, ONE-TIME	MSRP not entered
POWER, PER YEAR	$66 · 251 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $198 power
3-YEAR TOTAL, CLOUD	$1,051
BREAK-EVEN	Needs the hardware MSRP



Budget basis: 4 h a day, power at $0.18 per kWh, cloud at RunPod on-demand prices as of Nov 22, 2026. Hardware at the MSRP entered in the calculator, not a GPU Partner quote. A 3-year view; resale value, staff time and taxes aren't counted.

GPUpartner

TECHNICAL DETAIL · VIDEO GENERATION

HunyuanVideo 1.5

on Arc B580 · 6-bit (GGUF Q6_K)

SETUP

PARAMETERS	8.3B
PRECISION	6-bit (GGUF Q6_K)
OUTPUT	1280 × 720, 121 frames
STEPS	50
HARDWARE	Arc B580
GPU CAN USE	12.0 GB of 12.0 GB

MEMORY

WEIGHTS	6.4 GB
WORKING	3.4 GB
RUNTIME	819 MB
SYSTEM	0.0 GB
FREE	1.4 GB

SAME MODEL, OTHER MACHINES

RTX 4090	16-bit · 38 min
RTX 5090	16-bit · 30 min
RTX PRO 6000 BLACKWELL	16-bit · 13 min
M5 MAX 128 GB	16-bit · 2.0 h
M3 ULTRA 256 GB	16-bit · 3.8 h
DGX SPARK 128 GB	16-bit · 1.7 h
RYZEN AI MAX+ 395 128 GB	16-bit · 3.0 h

WHERE TO GET IT

FP8	huggingface.co/Comfy-Org/HunyuanVideo_1.5_repackaged
GGUF	huggingface.co/jayn7/HunyuanVideo-1.5_T2V_720p-GGUF
OFFICIAL	huggingface.co/tencent/HunyuanVideo-1.5

METHOD AND ASSUMPTIONS

Memory is the denoiser's weights at the chosen precision plus the bigger of one transformer block's working set and the VAE decode, plus the runtime; the text encoders run first and then wait in system RAM. Time is the denoising FLOPs per step times the steps, against the chip's dense 16-bit TFLOPS, scaled to published GeForce runs of this model. Running cost is power at the wall at your rate and hours; the cloud figure is the cheapest RunPod on-demand GPU that runs the same job. Accuracy: memory lands within about a gigabyte; speeds and times are rough, about ±25%. Model data and hardware specs checked Nov 2026; cloud prices are RunPod's on-demand list as of Nov 22, 2026. Report VR-1J8XRZ3, generated November 22, 2026.