GPUpartner

VALIDATION REPORT · VIDEO GENERATION

Wan 2.1 T2V-14B

on RTX 5080 · 4-bit (GGUF Q4_K_M · NVFP4)

STATUS · NOV 22, 2026

Not validated

2 of 3 checks pass

Wan 2.1 T2V-14B at 4-bit runs on the RTX 5080, about 65 min per clip.

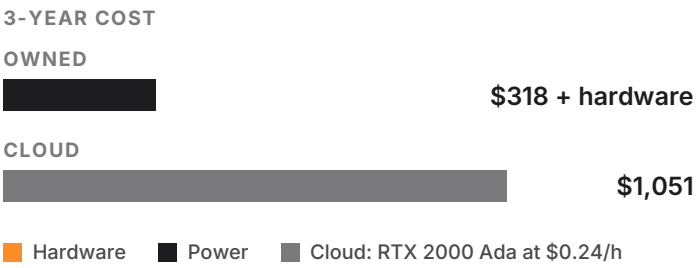
VALIDATION

CHECK	TARGET	RESULT	STATUS
Fits in GPU memory	16.0 GB usable	14.6 GB needed	PASS
Headroom	5% free	1.4 GB free (9%)	PASS
Time per clip	under 15 min	65 min	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	$106 · 404 W at the wall
CLOUD INSTEAD, PER YEAR	$350
3-YEAR TOTAL, OWNED	Hardware + $318 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.

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TECHNICAL DETAIL · VIDEO GENERATION

Wan 2.1 T2V-14B

on RTX 5080 · 4-bit (GGUF Q4_K_M · NVFP4)

SETUP

PARAMETERS	14.3B
PRECISION	4-bit (GGUF Q4_K_M · NVFP4)
OUTPUT	1280 × 720, 81 frames
STEPS	50
HARDWARE	RTX 5080
GPU CAN USE	16.0 GB of 16.0 GB

MEMORY

WEIGHTS	8.0 GB
WORKING	5.8 GB
RUNTIME	819 MB
SYSTEM	0.0 GB
FREE	1.4 GB

SAME MODEL, OTHER MACHINES

RTX 4090	8-bit · 39 min
RTX 5090	8-bit · 31 min
RTX PRO 6000 BLACKWELL	16-bit · 13 min
M5 MAX 128 GB	16-bit · 2.0 h
M3 ULTRA 256 GB	16-bit · 3.9 h
DGX SPARK 128 GB	16-bit · 1.7 h
RYZEN AI MAX+ 395 128 GB	16-bit · 3.1 h

WHERE TO GET IT

FP8	huggingface.co/Comfy-Org/Wan_2.1_ComfyUI_repackaged
GGUF	huggingface.co/city96/Wan2.1-T2V-14B-gguf
OFFICIAL	huggingface.co/Wan-AI/Wan2.1-T2V-14B

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-02RMLMN, generated November 22, 2026.