Deskman

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PHYSICAL AI, FOR SOFTWARE PEOPLE

Deskman spec sheet

A compact desktop robot with a screen face, a camera, a voice, and a head that moves. Open software, built to be programmed.





Editions	Standard Raspberry Pi edition	Pro NVIDIA Jetson Orin Nano edition
Computer	Raspberry Pi 5	NVIDIA Jetson Orin Nano
Memory	4GB RAM	8GB RAM
Storage	32GB SD card	256GB SSD
Features	Cloud voice AI, video calls	Cloud voice AI, on-device voice AI, video calls

Display

Screen	7 inch touchscreen, portrait
Resolution	600 × 1024
Face	Animated eyes, expressions, and menu

Motion

Servos	3 × Waveshare STS3215 serial bus servos
Axes	Head pan, head tilt, and a moving hat
Hat	Lowers over the camera for privacy

Voice AI

Speech to text	Whisper
Text to speech	Kokoro
Language	Gemma, on-device

Power

Battery	5,800mAh Li-ion, about 3 hours
Charging	Runs while plugged in and charging, 24/7
Monitoring	Battery level sensor and warnings

Size

Dimensions	8.7 × 6.3 × 16.4 in
Metric	22 × 16 × 42 cm
Weight	4.5 lb (2.0 kg)

Camera

Sensor	USB camera, 1920 × 1080
Video	Records 1080p at 30 fps, 720p on Pi
Face tracking	YuNet face detection model, with OpenCV

Audio

Speaker	10W 3 inch speaker
Microphone	Microphone with USB audio card
Wake word	"Deskman" or "number" plus his number

Software

Platform	Linux, Python, and C++
Tools	SSH, Cursor, Claude
Source	Open source

Connectivity

Network	Wi-Fi, set up from the touchscreen
Video calls	Robot to robot, and from any web browser
Access	SSH in over your network

Build

Body	3D-printed body, head, and hat
Assembly	Arrives assembled, ready to develop on
Made in	California, USA

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