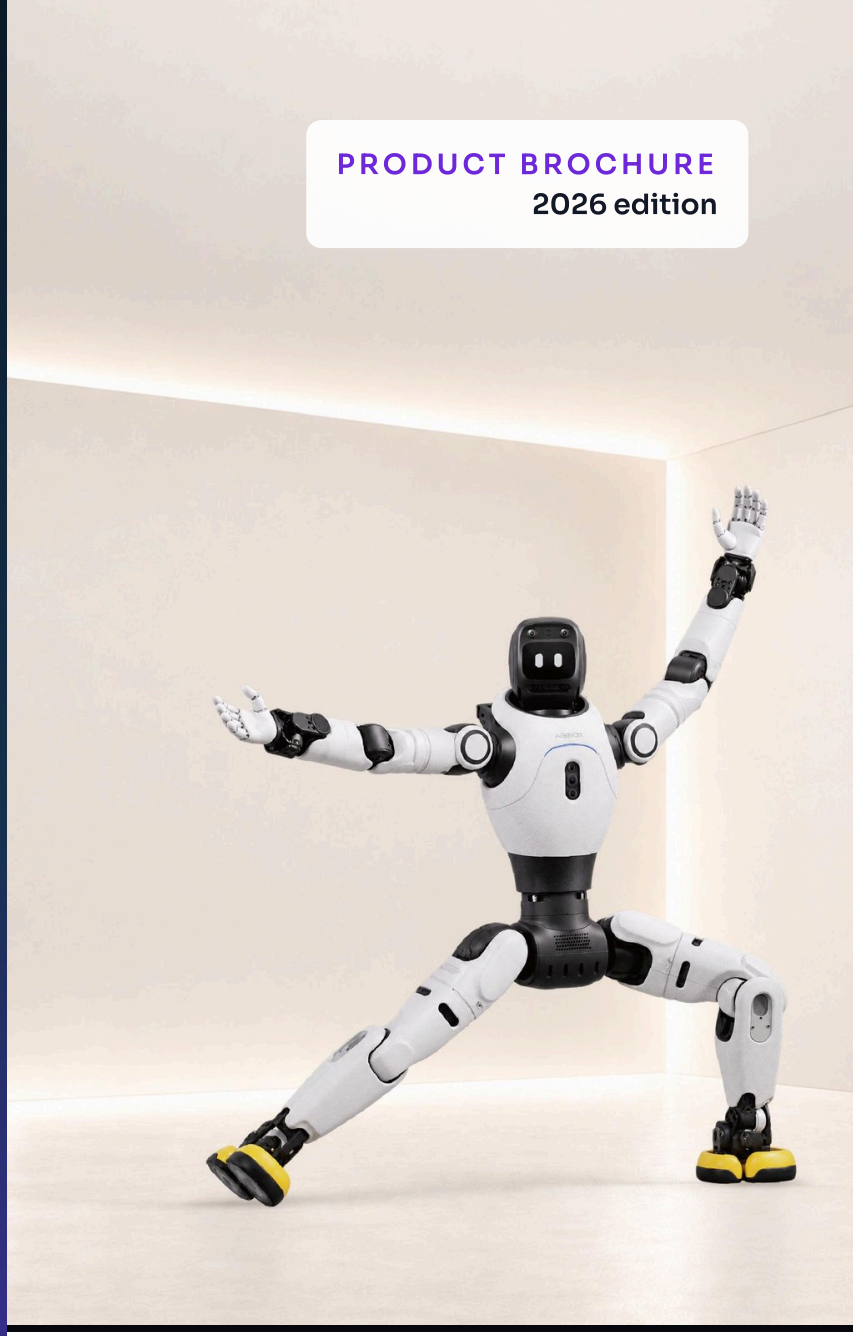
ROBOTIX
MARKET

PRODUCT BROCHURE
2026 edition



AGIBOT · COMPACT HUMANOID ROBOTS · ROBOTIX MARKET

AGIBOT X2 series

Four compact humanoids on one 1.31 m body: the X2 Ultra for tours and retail, the X2 Neo for shows, the X2 REC for data collection and the X2 EDU for the classroom

Up to 31 degrees of freedom, walking at up to 2 m/s in AGIBOT's lab and about 2 hours on a 500 Wh battery. The X2 Ultra and X2 Neo greet people first and answer with 30+ expressions.



Worldwide shipping from Robotix Market
robotixmarket.com

OVERVIEW

One body, four jobs

AGIBOT builds every X2 on the same compact humanoid body: about 1.31 m tall, with 7-DoF arms, a 3-DoF waist and 6-DoF legs. What changes is the work it is made for. The X2 Ultra guides, serves and sells; the X2 Neo performs; the X2 REC collects training data; and the X2 EDU comes apart for teaching.

Talks first

The X2 Ultra and X2 Neo notice visitors from about 3 m, turn toward the voice and answer with speech, matching gestures and 30+ expressions on the head display.

Finds its way

The X2 Ultra navigates to service points with LiDAR and depth cameras, recovers when a route is blocked and returns to its charging point when the battery runs low.

Moves like a person

AGIBOT's PowerFlow joint motors give the X2 Ultra and X2 Neo 120 N·m of peak knee torque. The X2 Neo comes with dance, martial arts and acrobatic routines and stands up by itself.

Hands and teleoperation

The X2 Ultra and X2 REC take AGIBOT's OmniHand dexterous hands or OmniPicker gripper, and an operator can drive them with AGIBOT's VR kit beyond line of sight.

Learns new skills

The X2 REC records whole-body data for training, and AGIBOT's SkillForge turns data collected on site into skills the robot runs, starting with pick and place.

Open to developers

The X2 Ultra, X2 REC and X2 EDU are open for secondary development; the X2 EDU opens its low-level motion control and comes apart module by module.

AGIBOT X2 ULTRA IN FIGURES

31	≈1.31 m	≈39 kg	2 m/s	≈2 h
BODY DEGREES OF FREEDOM	HEIGHT	WEIGHT	TOP WALKING SPEED (LAB)	ON A ≈500 WH BATTERY

Which X2?

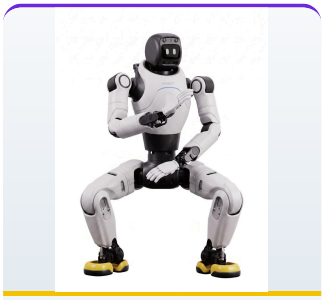
FOUR MODELS



X2 Ultra

The professional model for tours, retail and research

- 31 DoF; 47 with optional OmniHand hands
- LiDAR, stereo and depth cameras, autonomous navigation
- Proactive greeting, 30+ expressions
- Jetson Orin NX (157 TOPS), open for development



X2 Neo

The entry model for shows and brand ambassadors

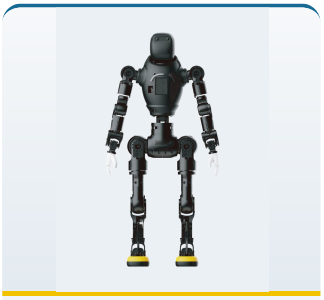
- 30 DoF, stands up from lying or sitting
- Dance, martial arts and acrobatic routines
- 30+ expressions, 20+ languages
- Custom persona, voice and magnetic shell



X2 REC

The data collection model for embodied AI research

- Full-body teleoperation, also beyond line of sight
- Head and wrist depth cameras, LiDAR
- Works with several end effectors
- Collect, train, evaluate, deploy



X2 EDU

The modular model for teaching and training

- 29 DoF; head, torso, arms and legs as modules
- Open low-level motion control
- Grippers, dummy hands or fists
- Courses and a consumables list from AGIBOT

We supply the X2 Ultra, X2 Neo and X2 EDU from robotixmarket.com; ask us about the X2 REC. AGIBOT is phasing out the original X2 (25 DoF) in favour of the X2 Neo, and the X2 Ultra (New Version) replaces the first X2 Ultra.

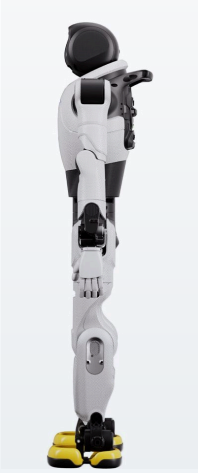
AGIBOT X2 ULTRA

What is where on the X2

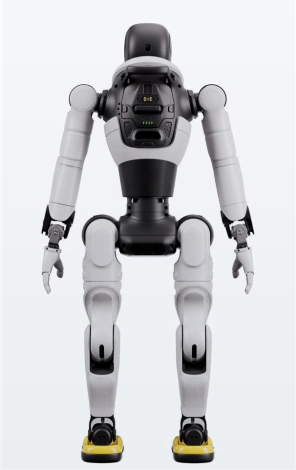
Shown on the X2 Ultra: 31 degrees of freedom without hands, 2 in the head, 7 in each arm, 3 in the waist and 6 in each leg. The X2 Neo has the same body with a 1-DoF head and an interactive camera. Every joint runs on AGIBOT's PowerFlow motors with cross-roller bearings and dual encoders.



FRONT



SIDE



BACK

Head · 2 DoF (Neo: 1)

An interactive display with 30+ expressions and a QR code, a touch sensor, and interactive RGB, stereo RGB and RGB-D cameras.

Arms · 7 DoF each

558 mm reach without an end effector, up to 3 kg in specific poses and 1 kg over the full range; OmniHand hands optional.

Waist · 3 DoF

Turns from –196.5° to 126.5° and tilts up to ±28°, so the upper body can face people, gesture and dance.

Legs · 6 DoF each

120 N·m peak torque at the knee, which bends from 0° to 138°; up to 2 m/s in the lab, typically 0.8 m/s or less.

Sound and sensing

A microphone array, a wireless microphone and a speaker, a LiDAR and a rear-view camera.

Computing and links

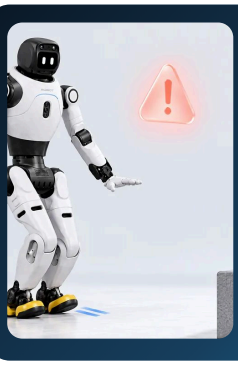
Two RK3588 boards and an NVIDIA Jetson Orin NX 16 GB at 157 TOPS; Wi-Fi, Bluetooth, 4G/5G, GPS and optional UWB.



Battery and charging

AGIBOT X2 ULTRA

A replaceable battery of about 500 Wh runs about 2 hours walking at 0.5 m/s. Charge it from 10 to 100 % in 1.5 hours or less, or swap it. The X2 Ultra goes back to its charging point by itself at a level you set between 5 and 30 %.



Safe around people

AGIBOT X2 ULTRA

Compact, with rounded, soft surfaces and a stable centre of gravity. Whole-body obstacle avoidance, safe stops, interruptible motions and fall damping with protective postures; private-cloud deployment keeps business data encrypted.

In the box

AGIBOT X2 ULTRA AND X2 NEO

- The robot
- Charger
- Remote control
- Microphone
- Quick start guide
- Certificate of conformity

Options

CHOSEN WITH YOUR QUOTATION

- OmniHand dexterous hands
- OmniPicker gripper
- AGIBOT VR kit for teleoperation
- UWB Agile Group Control Kit for multi-robot shows

The packing lists of the X2 REC and X2 EDU are confirmed with your quotation.

COMPARE THE MODELS

X2 Ultra, Neo, REC and EDU side by side

One body, four jobs: pick by the work the robot has to do. A figure AGIBOT has not published reads On request.

	X2 Ultra New Version · tours, retail, research	X2 Neo Performance and entertainment	X2 REC Data collection and model R&D	X2 EDU Education and training
WHAT IT IS				
Built for	Guided tours and shopping assistance, retail, cultural tourism, live entertainment, research and education	Entertainment and commercial performances, brand ambassador roles	Data collection and embodied AI model research and development	Research, education and vocational training: assembly, debugging and secondary development
BODY				
Height · size	About 1.31 m · 1,310 × 460 × 210 mm		About 1.31 m	About 1.30 m with the dummy head
Weight	About 39 kg	About 35 kg	About 40 kg	About 35 kg
Body degrees of freedom	31: head 2, arms 7 each, waist 3, legs 6 each	30: head 1, arms 7 each, waist 3, legs 6 each	31, arms 7 each	29, arms 7 each
Hands and grippers	Optional OmniHand dexterous hands (47 DoF in total with hands) or OmniPicker gripper	No	Optional OmniHand or OmniPicker	Optional grippers, dummy hands or dummy fists
Arm payload	Up to 3 kg in specific poses; up to 1 kg over the full range		Up to 3 kg	
Walking speed	Up to 2 m/s (lab); typically 0.8 m/s or less		Up to 2 m/s	Up to 1.8 m/s
PERCEPTION AND INTERACTION				
Cameras and sensors	Interactive RGB, stereo RGB, RGB-D and rear-view cameras, LiDAR	Interactive RGB camera	Interactive RGB, stereo RGB, head and wrist RGB-D and rear-view cameras, LiDAR	Supports retrofitting
Proactive interaction	Yes: head display with 30+ expressions, microphone array, wireless microphone, speaker		Yes	No
Autonomous navigation	Yes, with return to the charging point on low battery	No	SLAM navigation	*On request*
Built-in performance routines	No	Yes: dance, martial arts, acrobatics	No	
COMPUTING AND DEVELOPMENT				
Computing	2 × RK3588 and NVIDIA Jetson Orin NX 16 GB (157 TOPS)	2 × RK3588	NVIDIA Jetson Orin NX 16 GB	1 × RK3588
Secondary development	Yes	No	Yes	Yes, with open low-level motion control
Teleoperation	Optional VR kit: headset, controllers, motion trackers	No	Optional VR kit; full-body teleoperation beyond line of sight	No
Take apart and rebuild	No			Yes: head and torso modules, PowerFlow joint actuators, arms and legs
POWER AND DELIVERY				
Battery	About 500 Wh, about 2 h			
Charging	Direct charging or battery swap; 1.5 h or less		*On request*	Direct charging or battery swap; 1.5 h or less
In the box	Robot, charger, remote control, microphone, quick start guide, certificate of conformity		*On request*	

Sources: agibot.com/products/X2 (specifications, 12 November 2026), AGIBOT's product brochure of 29 October 2026, the AGIBOT X2 developer documentation (AimDK) and store.agibot.com. The 2 m/s walking speeds were measured in AGIBOT's lab; the runtime of about 2 h while walking at 0.5 m/s. Specifications depend on the delivery batch and order.

SPECIFICATIONS

The X2 Ultra and X2 Neo in detail

AGIBOT's specifications for the X2 Ultra (New Version) and the X2 Neo; a value both share spans both columns. Configuration, end effectors and options are confirmed with your quotation; specifications depend on the delivery batch.

	X2 Ultra New Version · tours, retail, research	X2 Neo Performance and entertainment
BODY		
Size · height	1,310 × 460 × 210 mm · about 1.31 m	
Weight	**About 39 kg**	**About 35 kg**
Degrees of freedom	**31: head 2, arms 7 each, waist 3, legs 6 each**	**30: head 1, arms 7 each, waist 3, legs 6 each**
Dexterous hands	**Optional: 10 active and 6 passive DoF more, 47 in total**	No
Arm reach · payload	558 mm without end effector · up to 3 kg in specific poses, up to 1 kg over the full range	
Walking speed	Up to 2 m/s in the lab; typically 0.8 m/s or less	
Operating temperature	−10 to 40 °C	
JOINTS		
Motors	AGIBOT PowerFlow low-inertia, high-speed inner-rotor motors; cross-roller bearings, dual encoders, cables through hollow joints	
Knee	120 N·m peak torque; 0° to 138°	
Head	**Pitch −23° to 28°; yaw ±30°**	**Yaw ±20°**
Waist · wrist	Waist −196.5° to 126.5°, ±28°, ±18° · wrist pitch ±33°, roll −86.5° to 41.5°, yaw ±146.5°	
PERCEPTION AND INTERACTION		
Cameras and sensors	**Interactive RGB, stereo RGB, RGB-D and rear-view cameras, LiDAR, head touch sensor**	**Interactive RGB camera, head touch sensor**
Audio · display	Microphone array, wireless microphone, speaker · head display with 30+ expressions, QR code, lighting	
Autonomous navigation	**Yes: obstacle avoidance, recovery when stuck, return to charge at 5–30 %**	No
Built-in routines	No	**Yes: 20 preset humanoid motions; dance, martial arts, acrobatics**
Connectivity	Wi-Fi, Bluetooth, 4G/5G, GPS; optional UWB group-control kit	
COMPUTING AND SOFTWARE		
Computing	**2 × RK3588 and NVIDIA Jetson Orin NX 16 GB, 157 TOPS**	**2 × RK3588**
Ports	At least 3 × USB-C, 2 × RJ45, 12 V/3 A and 48 V/5 A power	
Secondary development	**Yes; interfaces depend on the delivered version**	No
Software	**Mobile app, OTA updates; LinkSoul, LinkCraft, SkillForge**	**Mobile app, OTA updates; LinkSoul, LinkCraft**
End effectors	**Optional: dexterous hands, OmniPicker gripper**	No
POWER		
Battery · runtime	About 500 Wh, replaceable · about 2 h walking at 0.5 m/s	
Charging	1.5 h or less (10–100 %); input 100–220 V; charger 54.6 V, 10 A	

The rest of the family

X2 REC · X2 EDU



X2 REC

DATA COLLECTION AND MODEL R&D

For embodied AI work: full-body teleoperation, also from another site, a whole-body motion control model and the Collect, Train, Evaluate, Deploy loop.



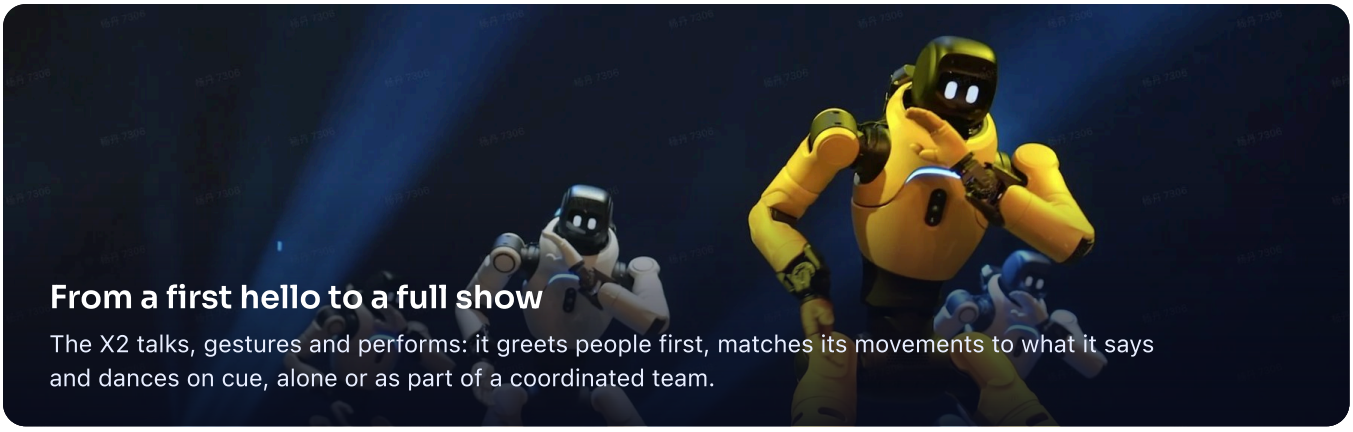
X2 EDU

EDUCATION AND TRAINING

Made to be assembled, debugged and rebuilt: head and torso modules, PowerFlow joint actuators, arms and legs, open interfaces and AGIBOT's tutorials.

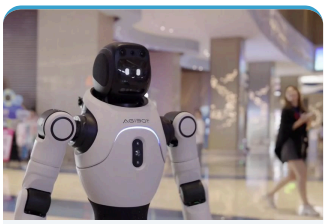
HIGHLIGHTS

Made to meet people



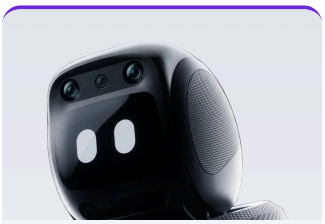
From a first hello to a full show

The X2 talks, gestures and performs: it greets people first, matches its movements to what it says and dances on cue, alone or as part of a coordinated team.



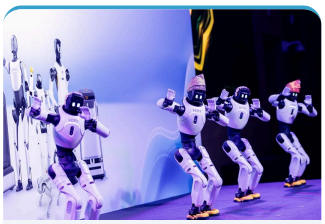
Says hello first

The X2 Ultra and X2 Neo spot visitors from about 3 m, turn toward the voice and greet them with a wave.



30+ expressions

One large head display shows the mood, and a QR code that takes visitors to your page.



One show, many robots

The optional UWB group-control kit moves several X2 robots along curved paths and in formation.



Teleoperation from afar

With AGIBOT's VR kit an operator drives the X2 Ultra or X2 REC, upper body or full body, beyond line of sight.

Typical applications

WHERE THE X2 WORKS



Museums and cultural tourism



Tours and shopping assistance



Service retail



Stage performance



Research



Data collection



STEM education



Assembly and maintenance training

Each application is set up for its site: navigation, interaction and tasks need the matching AGIBOT software, configuration for the venue and a check on the robot before use. The pictures are AGIBOT's own.

NEXT STEP

Choose your X2

Tell us the job: guiding visitors, performing, collecting data or teaching, where, and how many robots. We will recommend the X2 Ultra, X2 Neo, X2 REC or X2 EDU with the hands, kits and software it needs, and come back with a formal quotation and a delivery estimate to your address.

Request a quotation

Model, configuration and delivery are confirmed with your quotation. Robotix Market ships worldwide.

Web · robotixmarket.com
Email · info@robotixmarket.com

SCAN OR CLICK A MODEL FOR ITS PRODUCT PAGE

X2 Ultra

X2 Neo

X2 EDU

X2 REC
Ask us for the X2 REC data collection model
info@robotixmarket.com

Sourced new

Supplied new through established distribution channels.

Manufacturer warranty

Every robot ships with AGIBOT's manufacturer warranty; the terms are confirmed with your quotation.

Support

Technical support is coordinated with the manufacturer's service network.

Software and tools

AGIBOT X2

LinkSoul
Choose a persona and a voice and add your knowledge: shape how the X2 speaks and answers, with no code.

LinkCraft
Start from a video of a movement and turn it into a performance for the X2.

AgentFlow
Build tasks that combine conversation, movement and your workflow: greeting, recommendations, guidance.

SkillForge
Collect and label data on site, train in the cloud and deploy the skill on the robot; pick and place first.

WITA-Omni and AGILE
AGIBOT's models for natural multimodal conversation and for whole-body control guided by vision.

For developers
The AimDK SDK on the X2 Ultra and X2 REC (motion control on the X2 EDU); a mobile app and OTA updates.

See it in action · AGIBOT X2: youtube.com/watch?v=kBGNvPq0Iyg







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