



ROBOTICS FOR FRONTLINE POLICING

Remote capability for high
risk environments



INTELLIGENCE. SAFETY. CONTROL

WHY ROBOTICS

More options before putting people forward.

Robotics extends what teams can see, hear and do remotely, helping officers understand a situation before deciding what happens next.

Remote visibility

See more before entry

Live video, thermal imaging and sensor data build a clearer picture of the scene.

Operational awareness

Understand what is ahead

Gather information from rooms, routes and surrounding areas to support assessment and planning.

Remote communication

Open another communication channel

Use live audio and video to talk and listen during contained or complex incidents.

OPERATIONAL SUPPORT

More capability at the scene.

Recorded information

Capture a clear record

Audio and video can support investigations, incident review and learning.

Rapid field support

Move equipment where it is needed

Carry equipment, medical kits or communications devices into higher-risk areas.

Officer safety

Reduce unnecessary exposure

Deploy robots for selected tasks that present greater risk, while officers remain further back.



For every mission

Intelligence & awareness



Live observation & intelligence

Real-time scene coverage



Reconnaissance before entry

Check areas before officers enter



Mapping & route awareness

Understand layouts, access routes and obstacles

Response & operational support



Support in higher risk incidents

Extend capability while keeping personnel further back



Remote communication

Maintain contact during complex incidents



Hazardous item assessment

Approach and inspect items remotely

01

Contained incident

Communicate while maintaining distance

A robot equipped with audio and video can provide another communication route between officers and someone inside a building or restricted area. This can give teams another option when immediate physical proximity is not possible.



02

Building search

Locate threats before officers move in

Officers can send a robot through a building ahead of them, streaming live video and thermal images to the command team. This can help locate a hidden suspect, inform containment and give officers a clearer tactical picture before entry.



QUADRUPED ROBOTS

Mobile and adaptable.

Quadruped robots bring together mobility, sensing and payload capability in one adaptable platform.



Move through complex environments

Navigate buildings, stairs, obstacles and uneven ground



Provide intelligence from ground level

Live video, audio, thermal imaging and LiDAR data*



Adapt to the task

Configure cameras, sensors and specialist payloads around operational needs

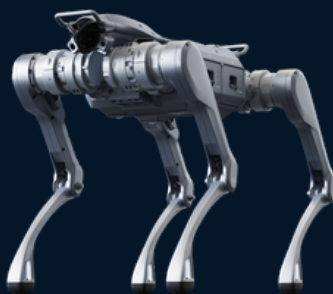
Platform options



Go2 series

**Compact
and agile**

Rapid deployment
and reconnaissance



A2 series

**Powerful and
versatile**

Longer deployments,
larger payloads
and demanding
environments

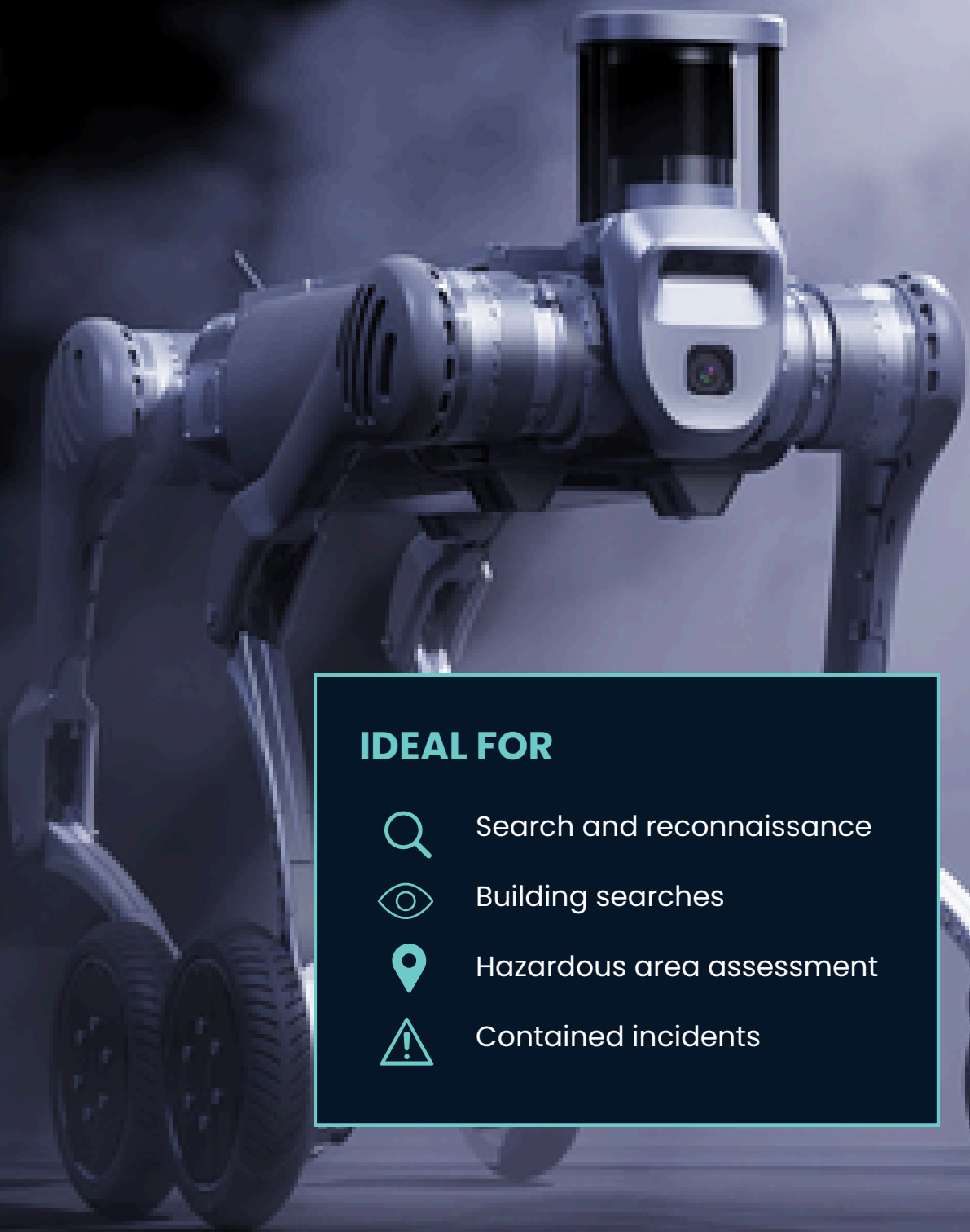


B2 series

**Heavy duty
capability**

Tough terrain,
specialist payloads
and extended
operations

*Wheeled variants available. Capabilities vary by platform and configuration.



IDEAL FOR



Search and reconnaissance



Building searches



Hazardous area assessment



Contained incidents

HUMANOID ROBOTS

Built for a human world.

Humanoid robots combine human scale movement, vision, communication and manipulation in one adaptable platform.



Work at human scale

Move and interact in spaces designed around people



Interact with objects

Use dexterous hands to handle items*



Adapt to the task

Configure capabilities around specific operational needs

Platform options



G1 series

Compact and agile

For remote observation, communication and interaction where a more compact platform suits the task.

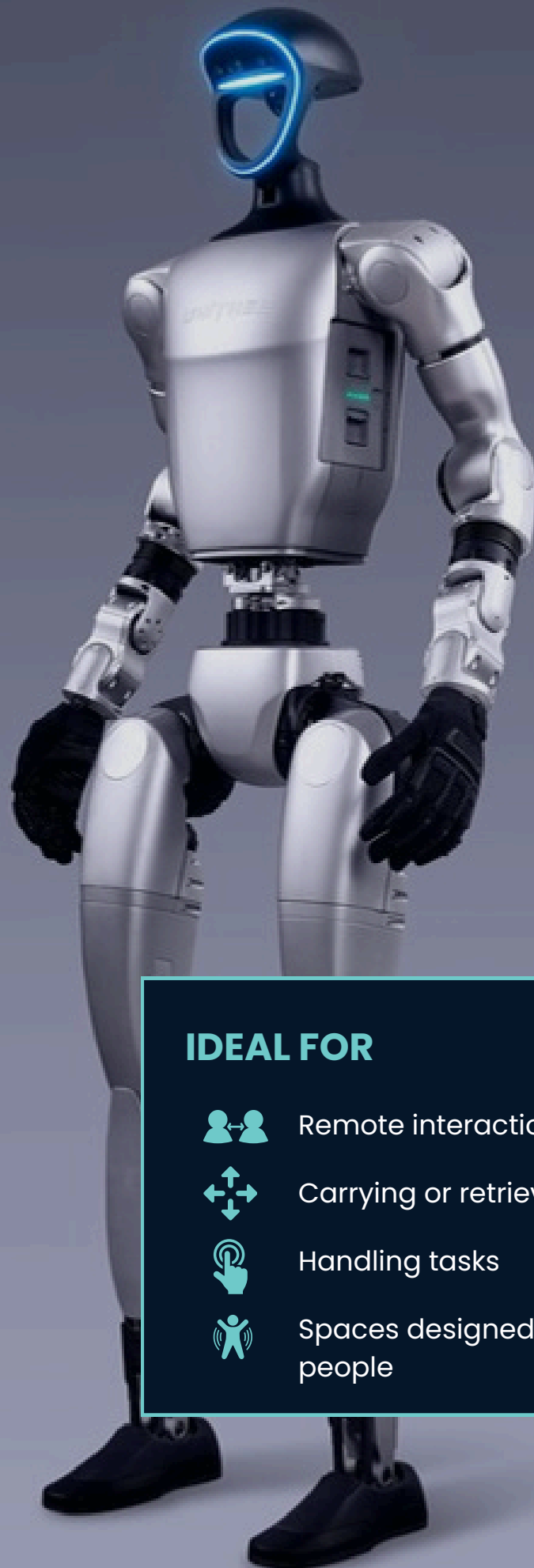


H2 series

Full size capability

For remote presence, communication and interaction with people, objects and equipment.

*Dexterous hands and other capabilities vary by platform and configuration.



IDEAL FOR



Remote interaction



Carrying or retrieving items



Handling tasks



Spaces designed around
people

FIELD TESTING

Nottinghamshire Police trial

NextGen Ri supplied and customised a quadruped robot for a Nottinghamshire Police trial.

The Firearms Training Team used it in planned building search exercises to map rooms and gather information before entry.

Thermal imaging, searchlights, live video and LiDAR mapping helped officers build a clearer picture of dark or unfamiliar spaces. In one exercise, information gathered by the robot helped officers identify a hidden room.

Following training and familiarisation, officers deployed the robot quickly alongside established search methods.

Capabilities tested



Remote visibility

Live video and thermal camera views



Situational awareness

LiDAR mapping of the surroundings



Mobility

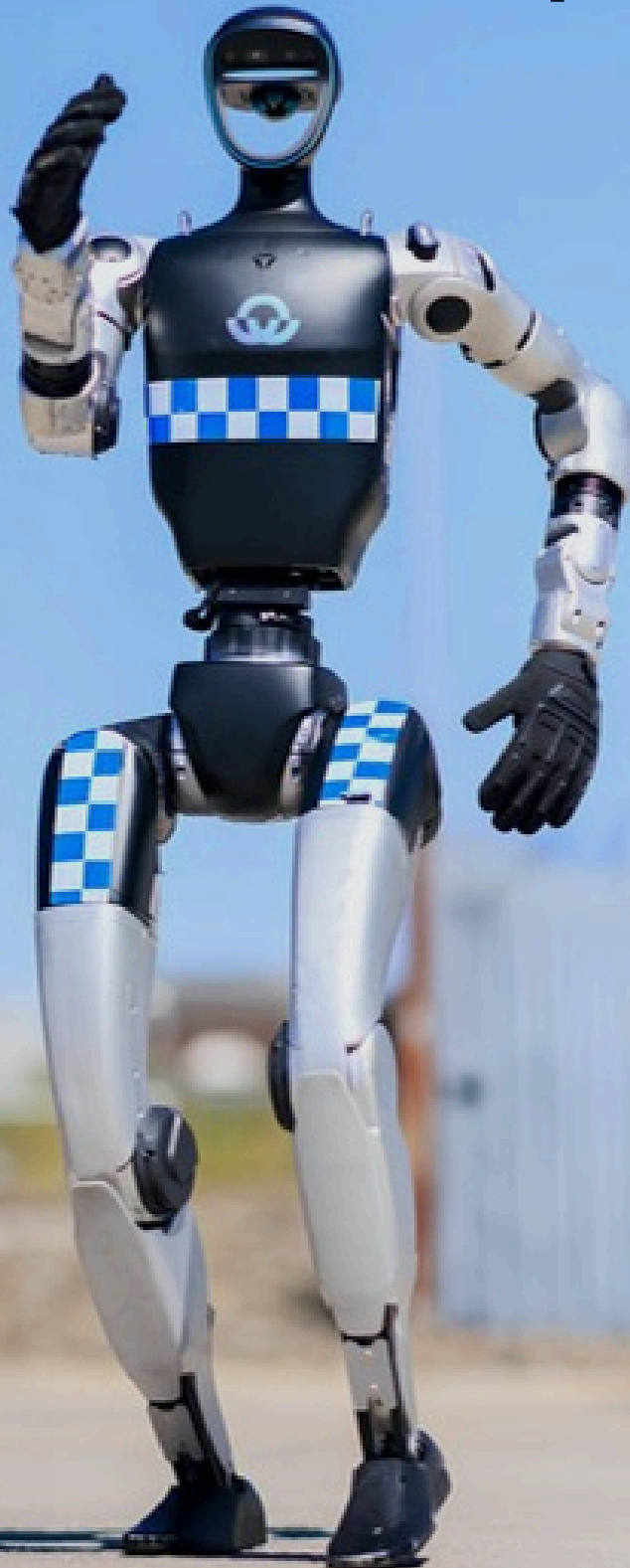
Buildings, obstacles and uneven ground



Two way communication

Talk and listen from a distance

Robotic capability for frontline **policing**





When every second counts
Foresight for the frontline

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