GATEIN TECHNOLOGY
جيت ان تكنولوجي

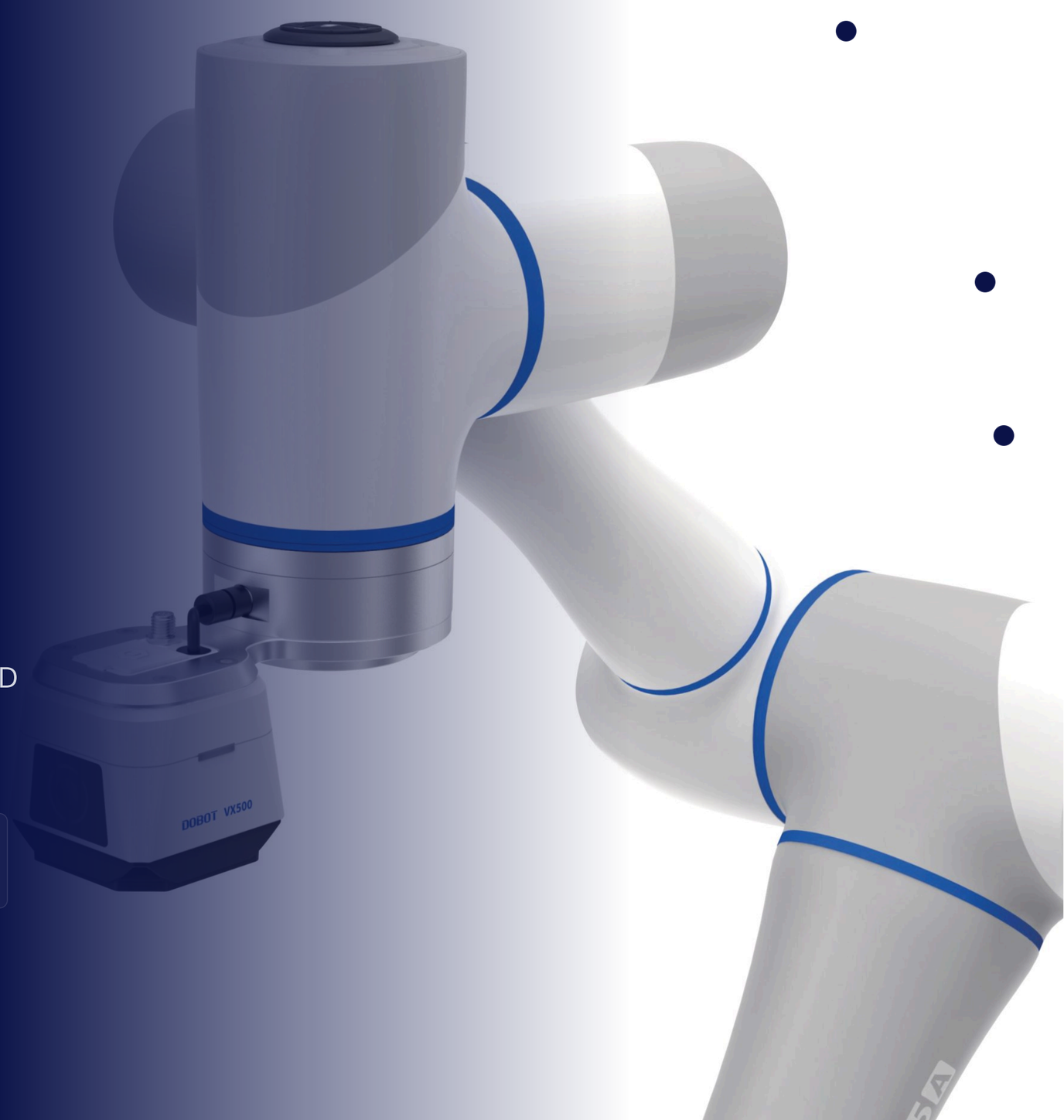
PRODUCT PRESENTATION · MACHINE VISION

VX500 Smart Camera

Precise, Efficient & Plug-and-Play

A 5-megapixel camera with LED light source and DOBOT's 2.5D algorithms, giving collaborative robots accurate visual positioning, measurement, detection and recognition.

Presented by GateIn Technology · Exclusive DOBOT partner in Egypt



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VX500 smart camera



Integrated imaging & communication

Identifies height and slope changes of the scene, with spatial compensation accuracy up to ±0.26 mm.

Error-proofing detection

Comprehensive algorithm for visual positioning, measurement, detection and recognition.

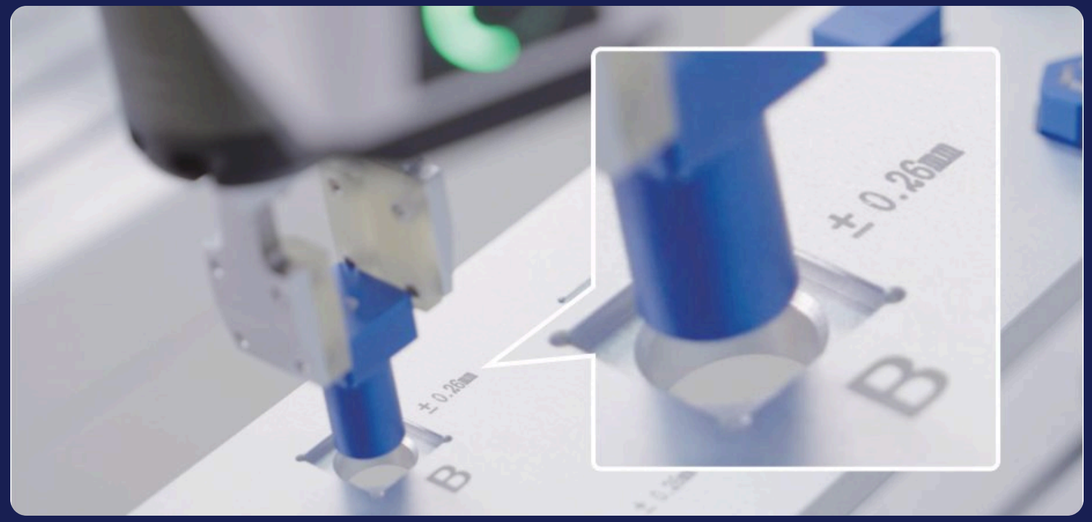
Built for DOBOT cobots

Plug-and-play: no separate selection, assembly, external wiring or software/hardware debugging.

Hardware

Camera aviation connector, network interface, display indicator, camera button and indicator, lens and light source.

Powerful and versatile



2.5D positioning

Self-developed algorithm for rapid positioning at ±0.26 mm, solving height changes from unevenness or slopes in AGV-robot handling and loading.

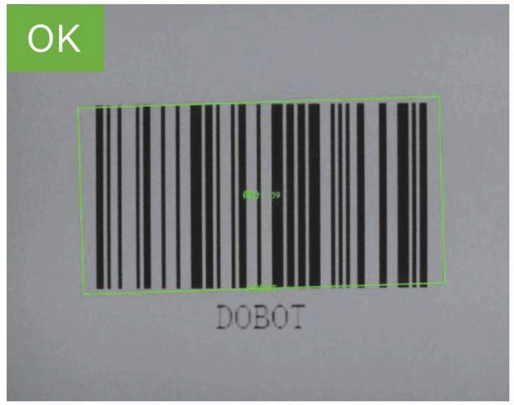


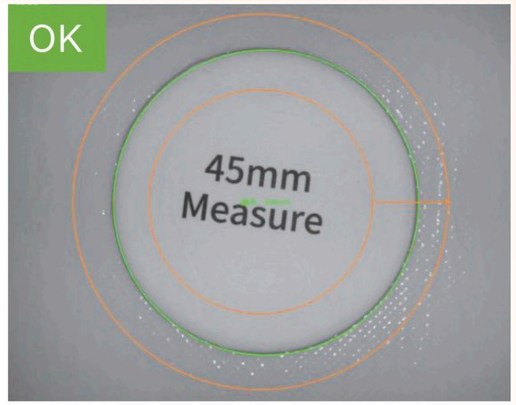
2D positioning

Quick match and location of workpieces, minimizing translation, rotation, scaling and lighting changes, with real-time position feedback.

Recognition & measurement







OCR

Deep learning-based OCR algorithms for accurate recognition of different characters.

Code recognition

Multiple barcodes identified even in complex backgrounds, low contrast and deformation.

Measurement

Diameter, width, gray area and other parameters.

Quick & easy deployment



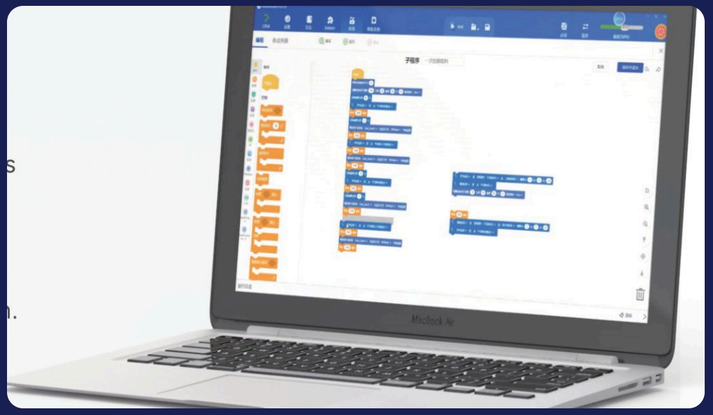
Plug-and-play

Adapted to DOBOT cobots and DobotStudio Pro: no other communication modules or third-party software.



Time- & labor-saving

Automatic calibration and guided debugging for new users.

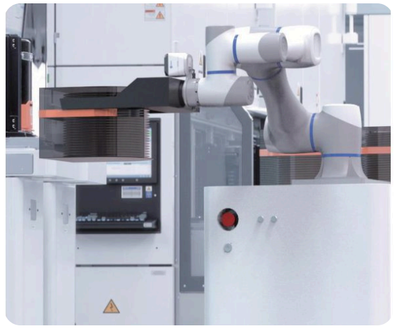


No coding required

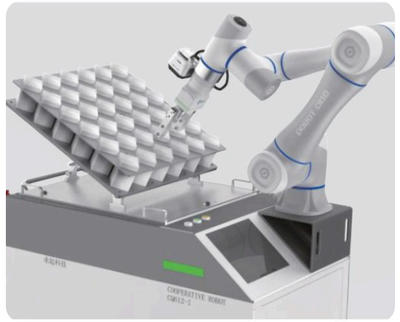
Graphical programming for dual control of the cobot and the vision system.

Wide application

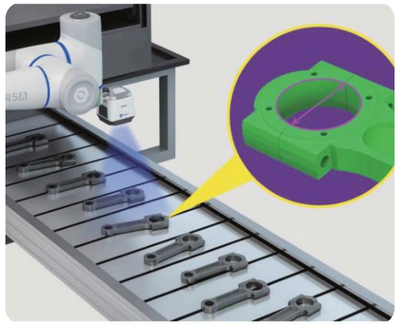
Where AGV-robots need precise positioning, such as handling and loading/unloading, the VX500 enables faster, more accurate and more flexible gripping and aligning.



Semiconductor die bonder loading/unloading



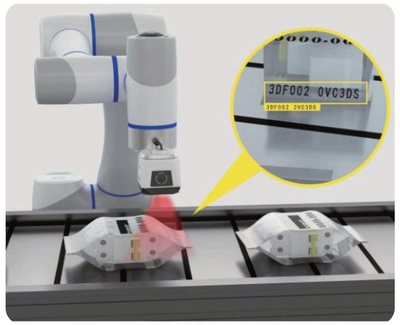
CNC machine loading/unloading



Part diameter measurement



Logistics barcode recognition



Packaging character recognition

VX500 Specifications



Parameter	VX500
Sensor type	CMOS, global shutter
Pixel size	3.2 µm × 3.2 µm
Sensor size	1/1.7″
Resolution	5-megapixel
Pixel format · colour	Mono 8 · black-and-white
Lens connector · focal length	M12-mount · 12.4 mm
Light source	14 white LEDs
Weight	500 g

Specifications subject to change without notice.

GateIn One accountable partner

We don’t just ship the VX500. GateIn designs, supplies, installs, integrates and supports DOBOT solutions for universities, schools, government and industry, from the first plan to long-term support.

+120
ROBOTS SUPPLIED IN EGYPT
Industrial, service and educational

91
LABORATORIES
Across 45 institutions

+30
STRATEGIC & GLOBAL PARTNERS

5
YEARS OF DELIVERY
Since 2021

Design | Sourcing | Installation | Integration | Training | Long-term Support

An integrator, not a vendor.

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Let’s plan your VX500 deployment

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