Zivid 2+ R-series

Industrial 3D cameras for fast and reliable picking

zivid.com

Innovation where it matters

Key features

Speed breakthrough for industrial robots

Remarkable immunity to ambient light

Handles the toughest reflections

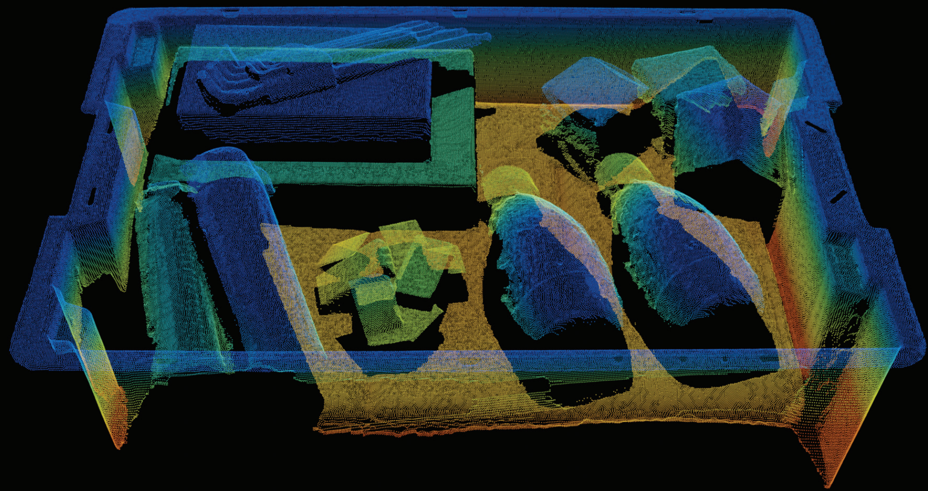
Market-leading 2D image quality

True-to-reality point clouds

True-to-reality 3D point clouds of transparent and shiny objects

in 150 ms

Combined 3D and 2D Technology



An example of a 2D image (left) and 3D point cloud (right)
captured by the same Zivid 2+ R-series camera

Built-in 2D camera optimized for AI segmentation

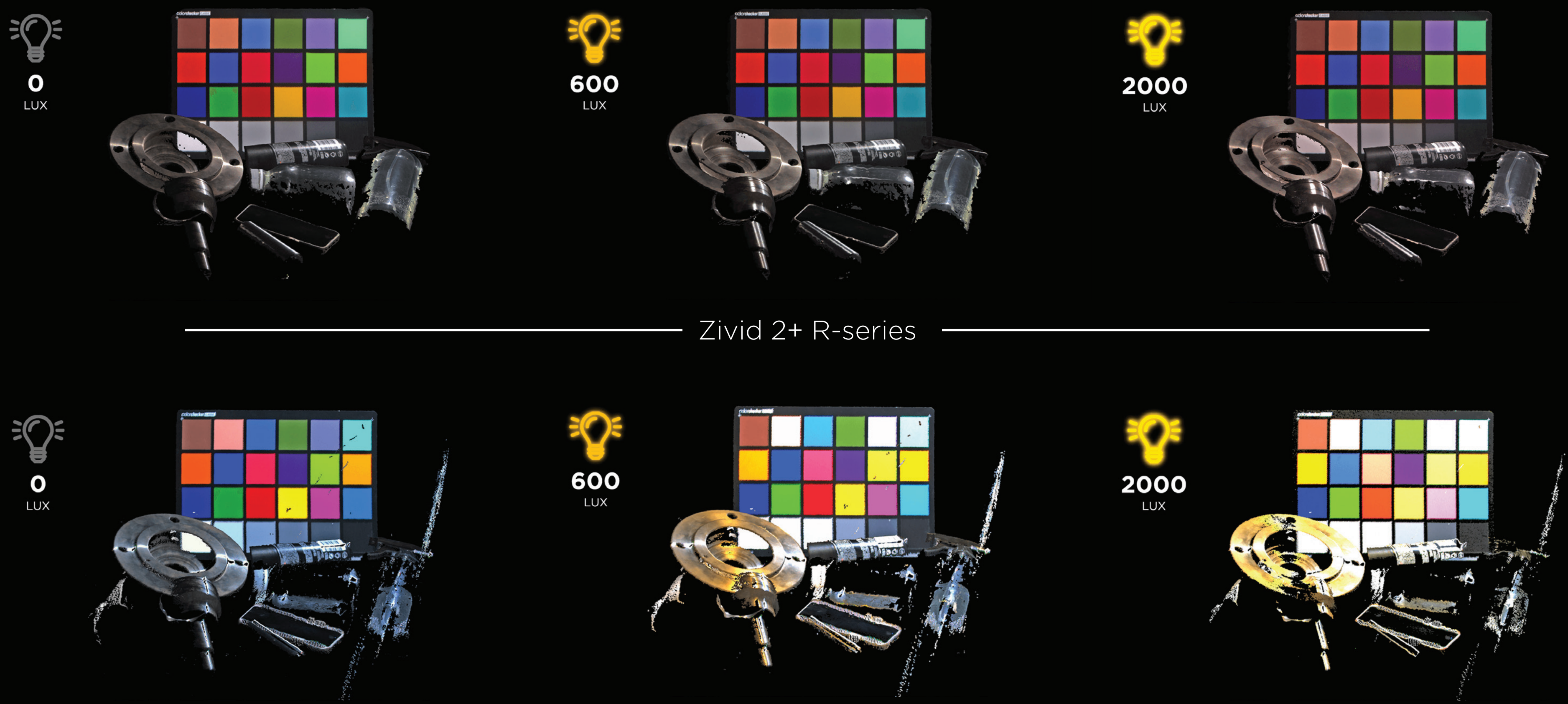
Incredibly sharp colors and contrast with no aliasing artifacts that outperform the best industrial color cameras. **Supercharge your AI segmentation** with stable, consistent, and adaptable 2D captures.

2D and 3D perfectly orchestrated

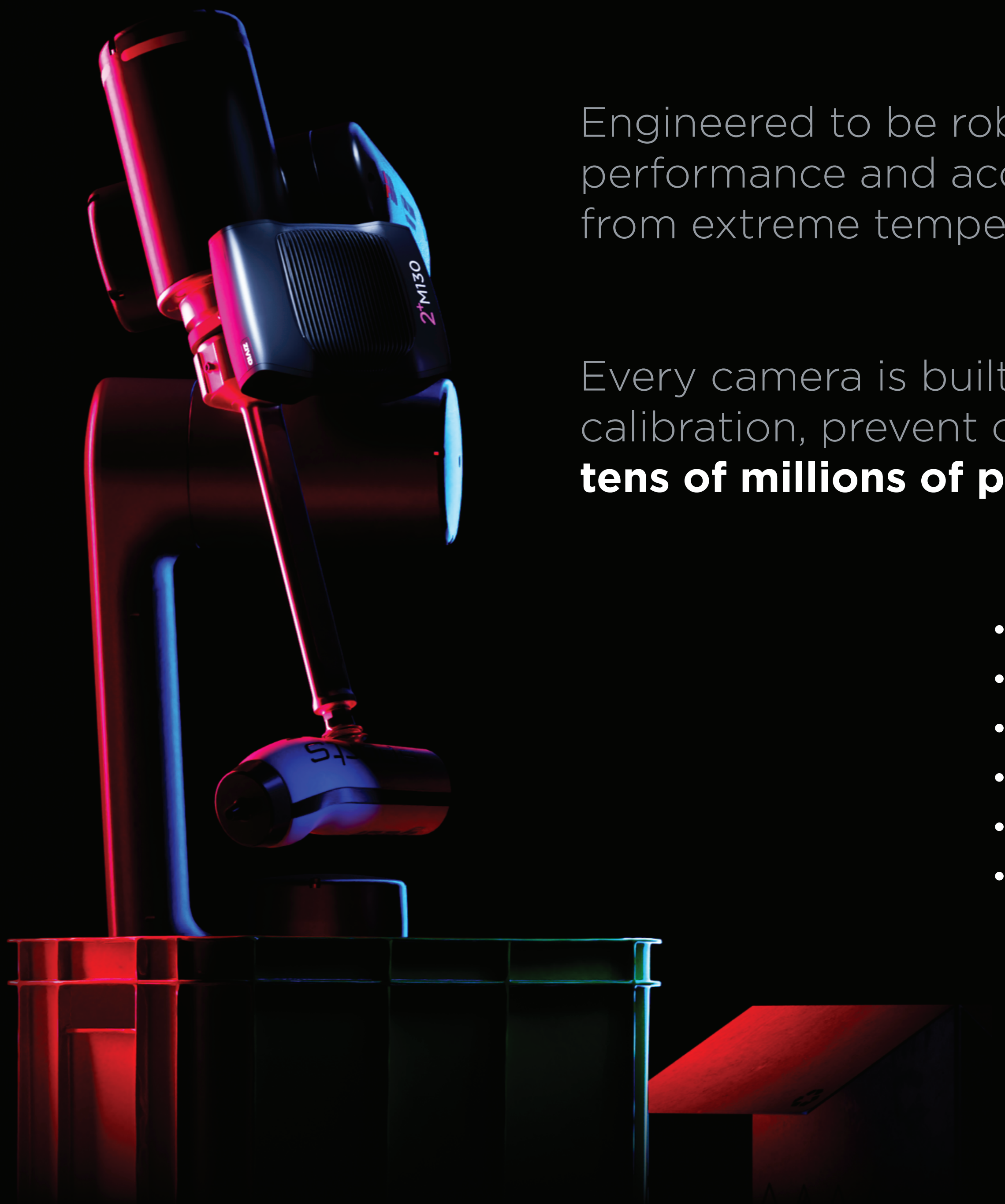
With perfect pixel mapping **there is no need for extrinsic 2D-to-3D calibration or transformation**. Zivid pipelines its output for effective parallel processing.

Reliable performance

Consistent point cloud quality under changing ambient light temperature and intensity.



Other 3D camera

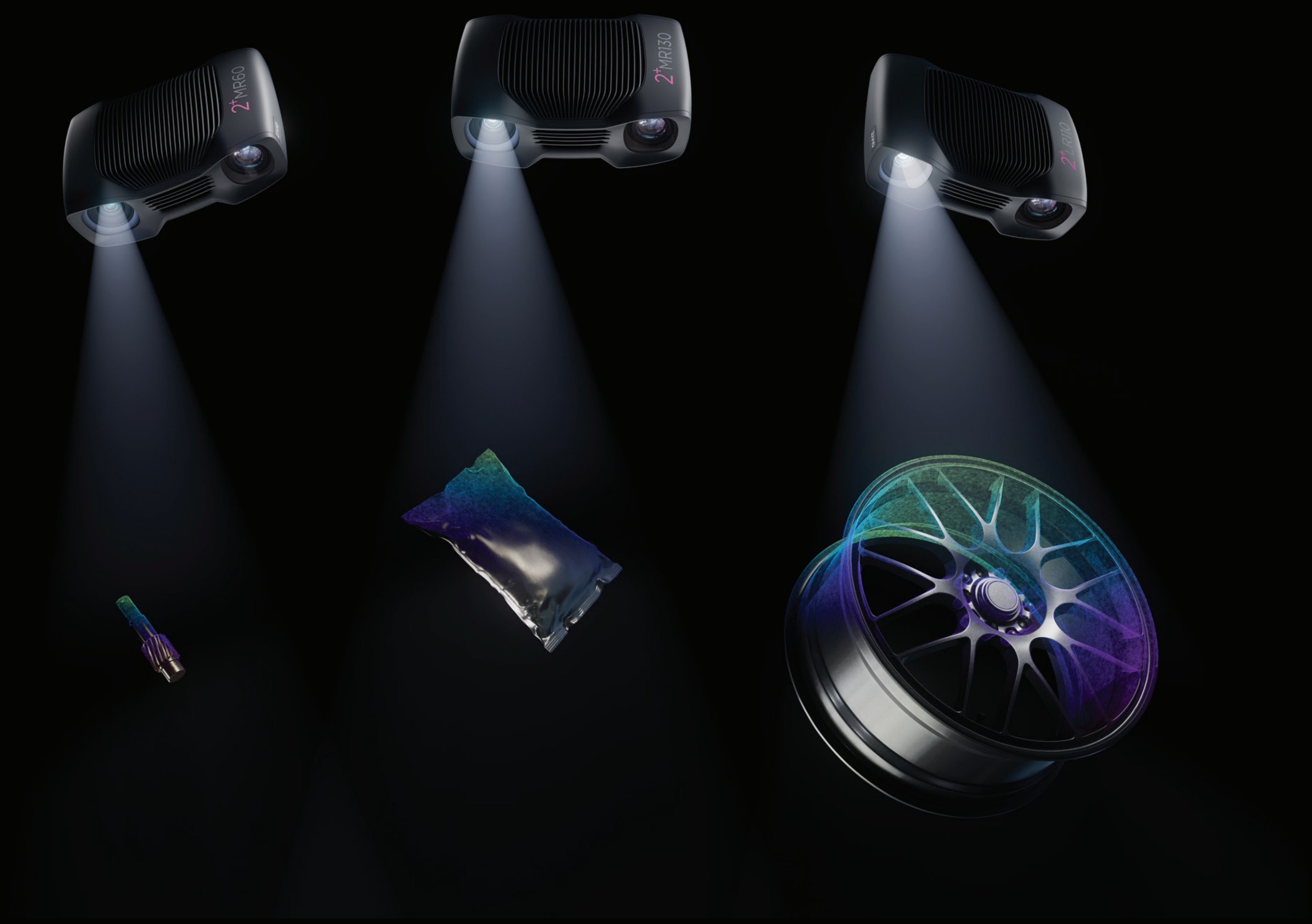


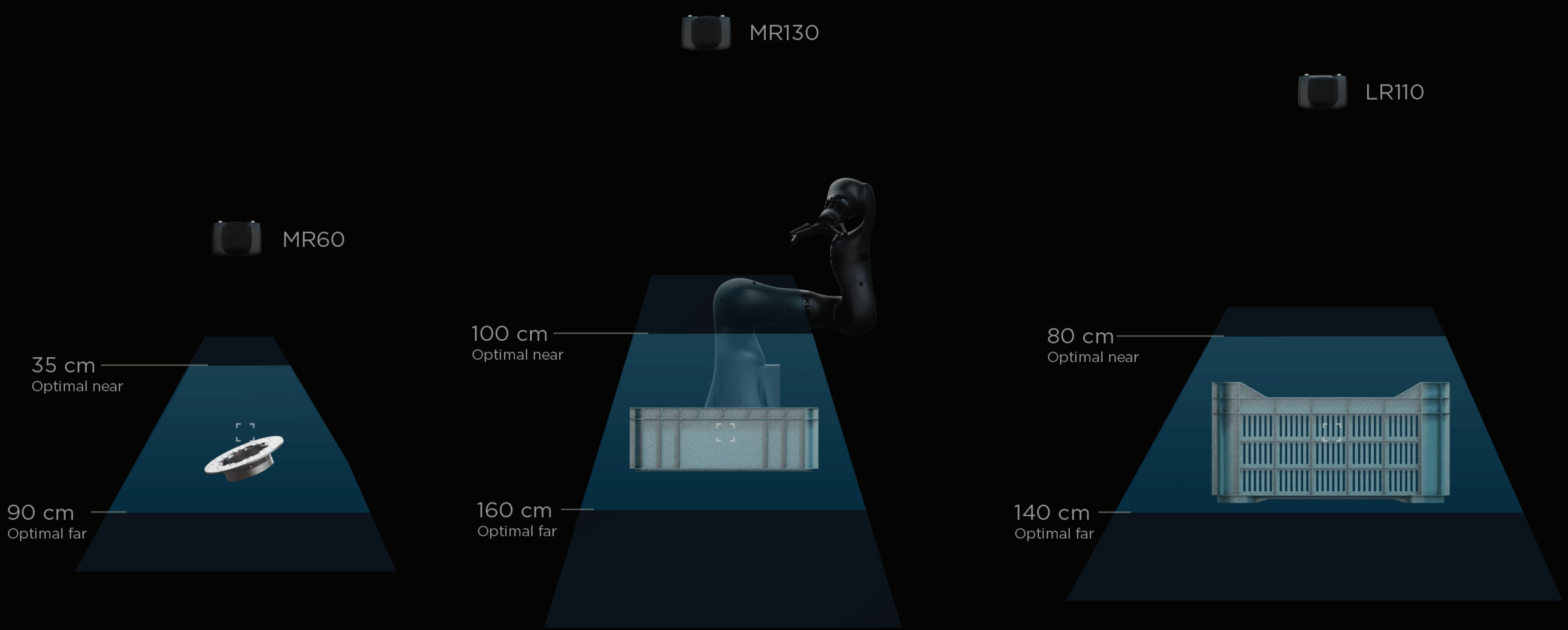
Engineered to be robust and rugged for consistent performance and accuracy **under all conditions**, from extreme temperatures to shock and vibrations.

Every camera is built and tested to deliver stable calibration, prevent overheating and capture **tens of millions of point clouds**.

- 0 to 40 °C
- 5 G accelerations
- 15 G shock
- < 1 kg
- 169 x 124 x 56 mm^3
- IP 65

Versatile Field-of-View





Focus: 60 cm
Spatial resolution: 240 µm
Area: 58 x 47 cm

Focus: 130 cm
Spatial resolution: 320 µm
Area: 79 x 66 cm

Focus: 110 cm
Spatial resolution: 440 µm
Area: 110 x 86 cm

Key Applications

Assembly Inspection Robot Guiding	Bin Picking Parcel Handling Piece Picking	Big Bin Picking Depalletizing Piece Picking

Assembly

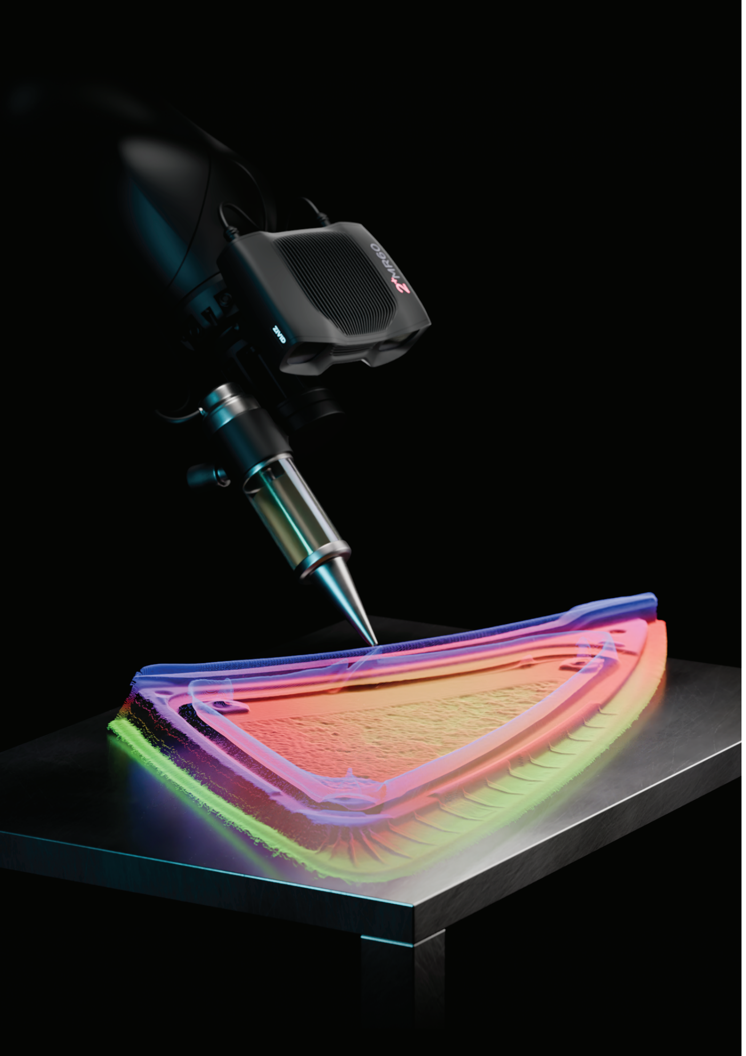
- Insert and join with sub-millimeter precision.
- Designed for lightweight, compact robot mounting.
- Ultra-high dynamic range for versatile performance.

Bin Picking

- High resolution and accuracy for precise pick-and-place.
- Handles reflections for accurate point clouds of shiny parts.
- Delivers consistent results in any environment.

Inspection

- Combines ultra-sharp 2D and 3D resolution in one device.
- Resilient to temperature and light changes
- Best-in-class dimension accuracy (>99.8%).



Robot Guidance

- Reliable 3D camera resistant to shock, vibration, dust, and humidity.
- Best-in-class point cloud flatness to follow contours and shapes.
- Built for tens of millions of operations.

Parcel Induction

- Captures 2D and point clouds in 50 ms for high-speed picking.
- Complete point clouds for all parcels, including black plastics.
- Factory-calibrated 2D image with ambient light suppression.

Piece Picking

- Delivers 2D and 3D in 150 ms for fast, simple robots.
- Provides accurate point clouds for reliable pick-and-place.
- Works with transparent and shiny materials.

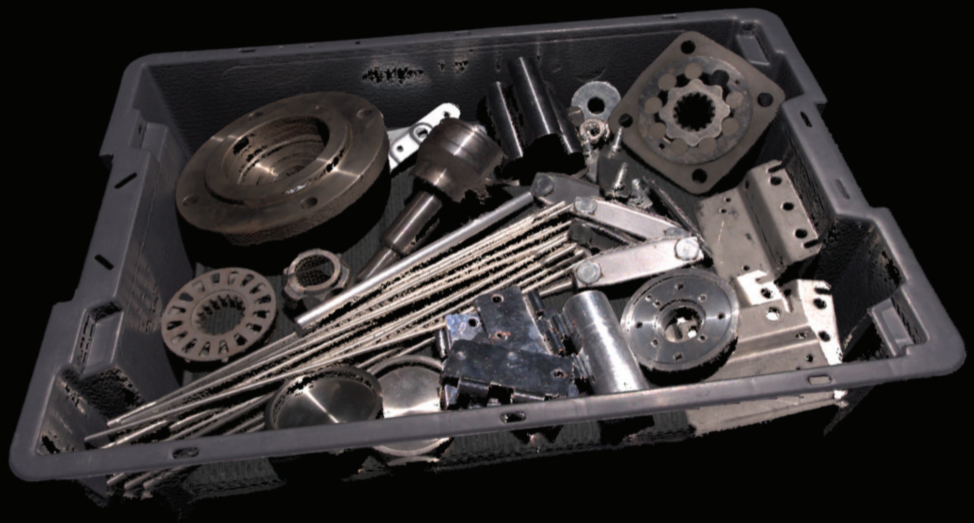
3D point clouds examples with Zivid 2+ R-series cameras
eCommerce and Logistics Applications

Mixed objects for piece picking

Mixed objects for order fulfilment

Parcel handling with wide FOV

3D point clouds examples with Zivid 2+ R-series cameras
Manufacturing Applications



Factory and manufacturing bin picking

Multi-bin manufacturing bin picking

Car mirror for assembly

See the difference

Visit our point cloud library

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