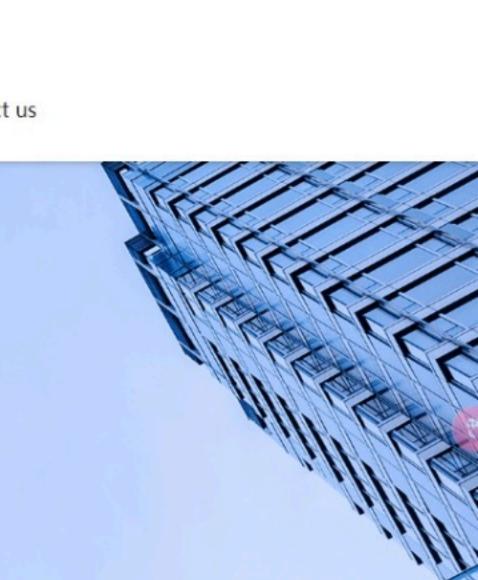
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The Mech-Eye Nano industrial 3D camera has been upgraded with ultra-small size, ultra-high precision, and excellent resistance to ambient light 2022-01-24

products

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3D camera. The new Mech-Eye Nano offers even more performance: ultra-high precision, faster scanning speeds, and excellent resistance to ambient light. It can better meet the needs of refined operation scenarios such as positioning and assembly, high-precision grabbing, etc. At present, Mech-Eye Nano has been successfully deployed in hundreds of applications around the world, including multiple joint venture automotive OEMs.

Recently, Mech-Mind officially released a new generation of Mech-Eye Nano ultra-small industrial



## complete and detailed high-quality point cloud data for various typical workpieces in the centimeter/millimeter range, effectively coping with complex working conditions such as

# dark/light absorption, a certain degree of reflection, and precise structure. Using the self-

developed high-speed structured light technology, the time from taking a photo to acquiring 3D data is reduced to 0.6 s, which fully meets the actual needs of typical application scenarios.



点云图

▲ A workpiece with a thickness of only 0.68 mm

(Mech-Eye Nano @ 0.3 m, point cloud data rendered by height)



点云图

▲ All kinds of small workpieces

(Mech-Eye Nano @ 0.3 m)

The newly upgraded Mech-Eye Nano is highly resistant to ambient light and can produce

window and other working environments) that are easily disturbed by ambient light in

structurally complete, detailed, and well-bounded high-quality 3D data on a wide range of typical workpieces under ambient light at >60000 lx (the typical sunlight experienced in a manufacturing plant in summer). It is very suitable for various scenarios (such as outdoor, semi-outdoor,

02 Excellent resistance to ambient light

RGB图

RGB图

automobiles, semiconductors and other fields.



From left to right: Small iron casting, indoor natural light, >60000 lx bottom image

(Mech-Eye Nano @ 0.3 m)

03 Ultra-small size, light weight, suitable for all kinds of fine operation scenarios

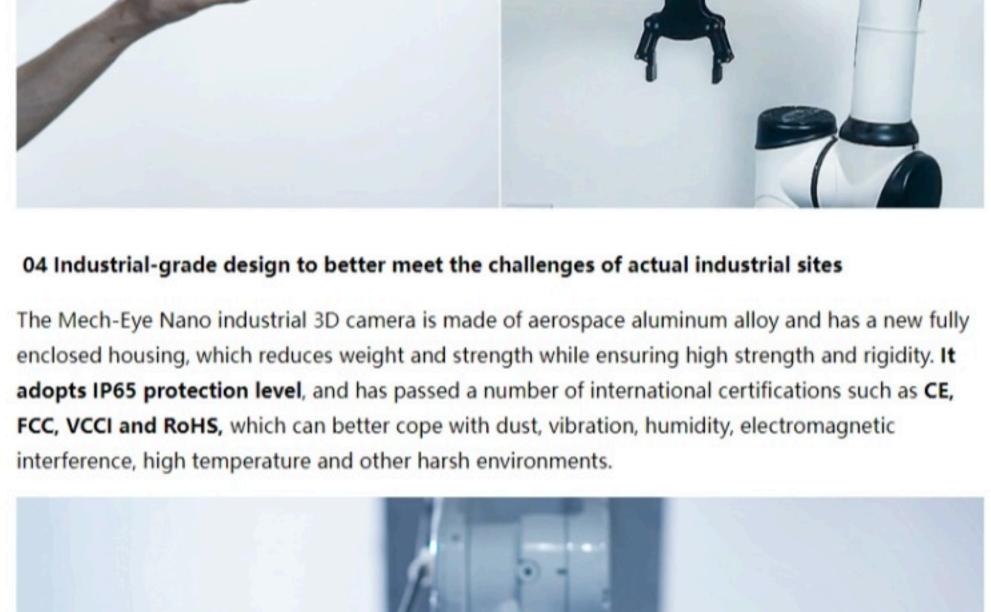
frames, etc.), and has been widely used in fine operation scenarios such as positioning and assembly, high-precision grabbing, etc.

Mech-Eye Nano is ultra-small (only 145\*51\*85 mm) and weighs as little as 0.7 kg, which can be

easily installed at the end of robotic arms (including collaborative robots, composite robots,

etc.). It has high flexibility and supports working in small spaces (such as drawers, material

85 mm



# 航空用铝合金,全封闭外壳,IP65防护等级 更好应对粉尘、震动、潮湿、电磁干扰、高温等恶劣环境 已通过CE, FCC, VCCI及RoHS认证 05 Easy to use, open, and quick to deploy Mech-Eye Nano provides a choice of SDKs in multiple languages and platforms, with open interfaces and simple deployment. It can be used with Mech-Vision graphical machine vision software and Mech-Viz robot intelligent programming environment to easily and quickly deploy various complex intelligent robot applications. 06 Still very cost-effective

The Mech-Eye Nano offers further performance while still maintaining a high price-performance

300 - 600 mm

1280 × 1024

0.6 - 1.1 s

0.1 mm @ 0.5 m

145 × 51 × 85 mm

220 × 160mm @ 0.3 m

430 × 320mm @ 0.6 m

推荐工作距离范围

近端视场

远端视场

分辨率

标定精度

外形尺寸

典型采集时间

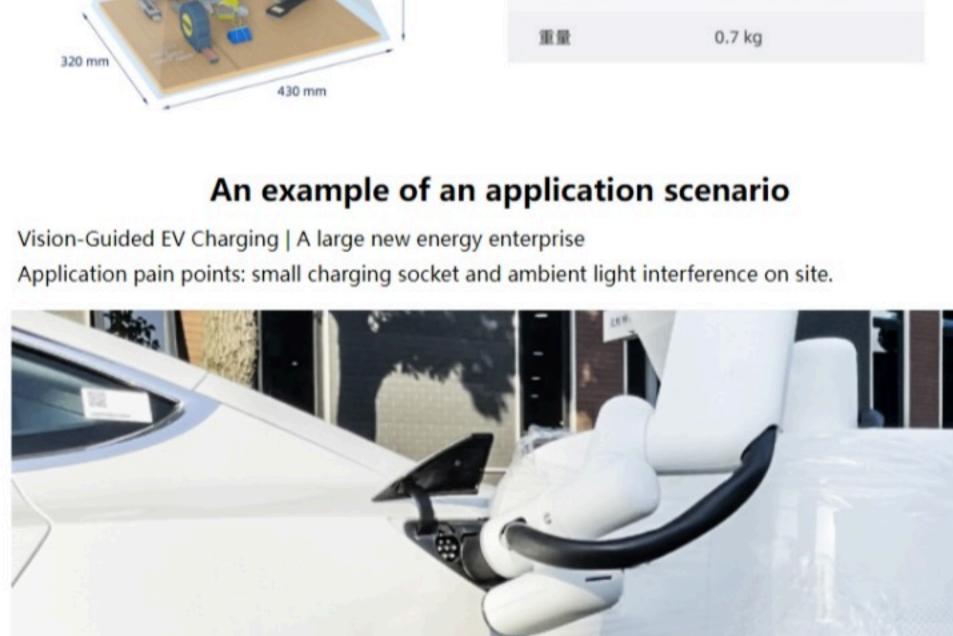
ratio. It's easier to use, easier to operate, and the price is still very competitive.

300 mm

600 mm

# **Product parameters**

160 mm



Actual case site: In an outdoor environment, there is obvious sunlight interference



to high-performance industrial-grade 3D cameras and supporting platform software products, we

also provide partners with personnel training, reference program design, exhibition support, key

and difficult project research and other services, and can provide global users with 7\*24 hours of

after-sales rapid response and support, helping many robot solution providers/integrators to create

# Depending on the user's needs, we can provide a color point cloud version of the Mech-Eye Nano. At the same time, Mech-Eye Nano has opened the prototype loan service, if you have a need for

Delivery Center have been upgraded

speed and resistance of industrial sites

Mech-Vision machine vision software

Mech-Viz robot programming software

Mech-DLK deep learning software

a variety of intelligent robot applications in a multiple, fast, good and economical way.

borrowing and testing, please leave a message in the article, or contact your corresponding sales, we are willing to serve you wholeheartedly.

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Company address products Mech-Eye industrial 3D cameras - 1st Floor, Building 2, Independent Mech-Eye 3D line laser profilometer Innovation Building, No. 6 Chuangye

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### Mech-MSR 3D measurement and inspection software **Application examples** solution Car 3D visually guided depalletizing 3D vision guides the loading of the workpiece logistics 3D vision-guided positioning assembly Heavy industry High-precision in-line measurement Appliances/furniture Industrial quality inspection In-line measurement 3D vision guidance automatically generates trajectories Industrial quality inspection 3D vision guides item picking 3D visual guidance for parcel delivery 3D vision guides the cutting and cutting of steel plates Value provider cooperation

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