

До: „АЕЦ Козлодуй“ ЕАД  
гр. Козлодуй 3321

Относно: Пазарна консултация № 51216 за „Доставка на 3D ръчен скенер за широкомащабно сканиране (заснемане) на сложни части (тъмни, отразяващи повърхности)“

На вниманието на:

Христо Пачев

Гл. експерт „Маркетинг

Тел.: +359 973 7 6140

E-mail: HPatchev@npp.bg

## ИНДИКАТИВНО ПРЕДЛОЖЕНИЕ

ОТ

### „МВ КОРПОРЕЙШЪН“ ЕООД

ЕИК: 206475290; ИН по ДДС: BG206475290

адрес за кореспонденция: гр. София 1612, ж.к.: Лагера“, бл.52, вх. Г, ет. 5

седалище: гр. София 1612, ж.к.: Лагера“, бл.52, вх. Г, ет. 5; тел.: 0896976769

лице за контакт: инж. Марианна Витанова – Управител

Уважаеми г-н Пачев,

Имаме удоволствието да Ви предложим нашето индикативно предложение по гореспоменатата пазарна консултация № 51216, както следва:

№ по ред	ИД по ВААН	Наименование	Технически характеристики	М-ка/ М.е.	К-во	Ед. цена/лв. без ДДС	Ст-ст/лв. без ДДС
1.	139865	Скенер 3D  Модел: FreeScan UE Pro  Производител: Shining 3D Technology  Страна на произход: Китай	Ръчен (преносим) с възможност за поставяне на статив. Режим на сканиране: многоредово сканиране, едноредово сканиране, фино сканиране. Източник на светлина: 26 лазерни линии, единична лазерна линия, 5 паралелни лазерни линии. Работно разстояние: 200 mm – 300 mm. Точност на сканиране: 0,02 2+0.03 mm/m (стандартен режим); 0.02+0.015 mm/m (вграден фотограметричен режим).	Бр.	1	69 000.00	69 000.00

		<p>Скорост на сканиране: <math>\geq 1\ 850\ 000</math> точки/сек.          Дълбочина на рязкост: от 170 до 680 <math>\mu\text{m}</math>.          Фотограметрия: вграден режим на фотограметрия с мащабна лента.          Лазерен клас: Class 2M (безопасен за очите).          Връзка: USB 3.0          Захранване: 12V, 5.0 A          Работен температурен диапазон: от -10 до 40 C.          Работен диапазон на влажност: от 10 до 90%.          Сертификати: CE, FCC, RoHS, WEEE, KC.          Изходящи файлови формати: подходящи за експорт към CAD системи (AutoCAD и др.).          Препоръчителни компютърни настройки:          -ОС: WIN 10, 64бита,          -графична карта: карти от серията NVIDIA GTX/RTX, големи или равни на GeForce GTX 3060;          -GPU памет <math>\geq 6\text{G}</math>;          -процесор: I7-8700;          -RAM: <math>\geq 32\ \text{GB}</math>;</p>		
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#### Забележка 1: Допълнителни аксесоари за сканиране:

1. Маркери – магнитни.
2. Маркери – еднократни стикери.
3. Матиращ спрей за 3D сканиране – самоизпаряващ се.
4. Матиращ спрей за 3D сканиране –перманентен.

#### Търговски условия:

1. Посочените цени са в лева без ДДС, с включени всички разходи за доставка, инсталация, демонстрация, обучение и допълнителни аксесоари за сканиране.
2. Срок на доставка: до 90 календарни дни.
3. Условия на доставка: DDP гр. Козлодуй.
4. Гаранционен срок: 12 месеца от датата на доставка.

5. Начин на плащане: до 30 календарни дни от приемане на доставката.
6. Валидност на офертата: 30 дни.

**Списък на съпровождащите стоката документи:**

1. Декларация за съответствие.
2. Сертификат за калибрация.
3. Инструкция за експлоатация.
4. Гаранционна карта.
5. Приемо-предавателен протокол.
6. Оригинална Данъчна фактура.

Дата: 19.04.2023 г.  
гр. София

MARIANNA  
LYUBOMIROVA  
VITANOVA

Digitally signed by  
MARIANNA  
LYUBOMIROVA VITANOVA  
Date: 2023.04.19 12:55:37  
+03'00'

инж. М. Витанова - Управител

To: Whom it may concern

Date: 13.04.2023

## **Manufacturer's Authorization Letter**

We, Shining3D , as reputable manufacturer of 3D scanners, hereby declare that the bellow company has authorization to represent us and has the right to offer, deliver and service our production on the territory of the NPP Kozloudy in Bulgaria, for the Tender specified.

Company: MV Corporation Ltd.,  
ID: 206475290, Bulgaria, 1612 Sofia,  
Lagera District, bl. 52, entr. G, fl.5

We herewith guarantee the quality of our product.

This letter is valid until 13.10.2023.

Yours sincerely,

**SHINING 3D**

SHINING 3D Technology GmbH  
Breitwiesenstraße 28 • 70565 Stuttgart  
Tel: 0711 28444039



SHINING 3D®

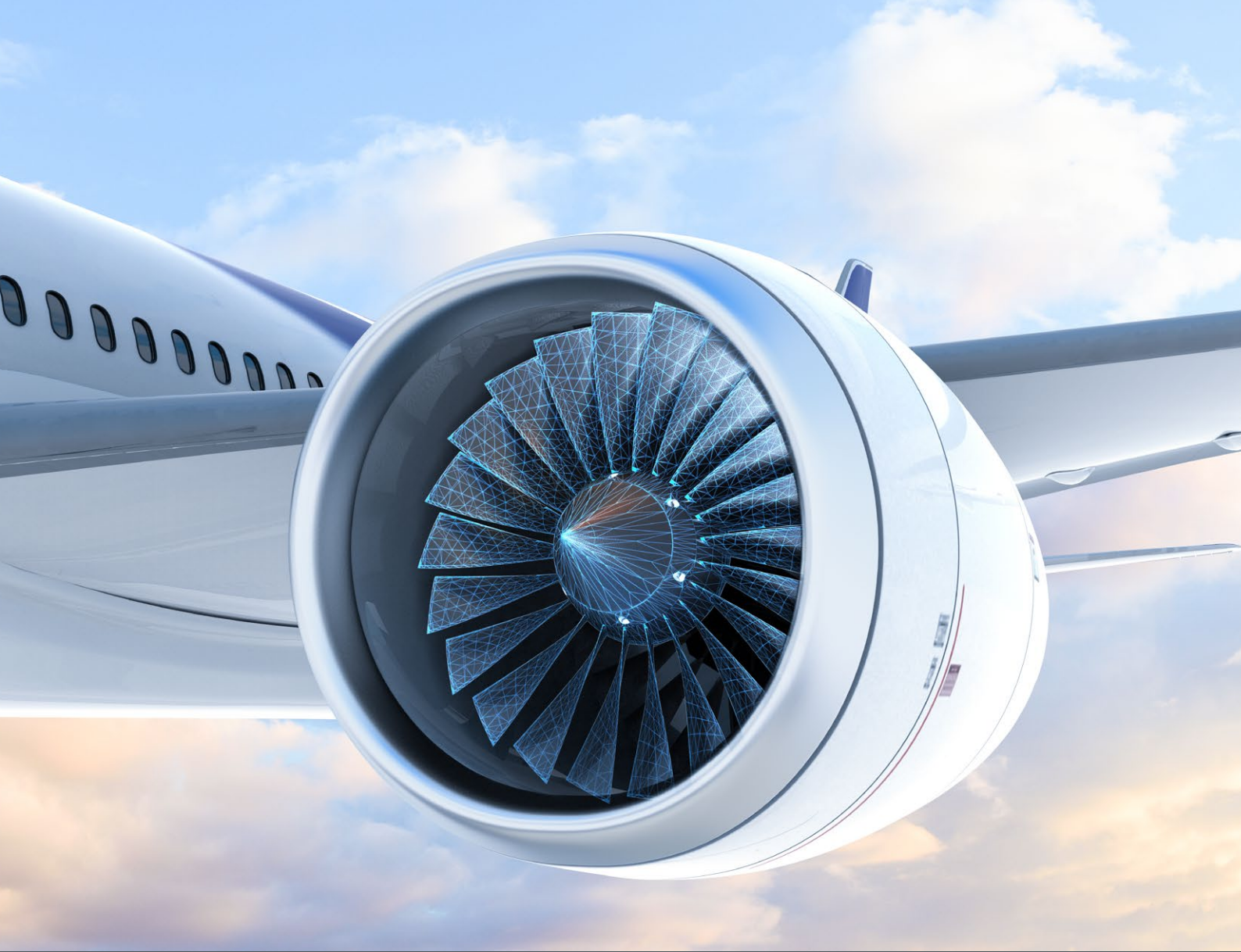
# FreeScan UE Pro <sup>NEW</sup>

Multi-Functional Laser Handheld 3D Scanner

For High Precision Metrology-Grade Inspection







## FreeScan UE Pro

FreeScan UE Pro inherits the high-precision, metrology-grade accuracy, and lightweight design of FreeScan UE, while improving the ability of fine scanning and global precision control of large-scale workpiece scanning. It adopts 26+5+1 blue laser lines and integrates a photogrammetric module. Taking into account speed, accuracy and details, this professional 3D metrology solution can be applied to different sized scanning scenarios and perform metrology-grade accuracy inspection, reverse design, additive manufacturing and other applications.



Patented built-in scale bar  
photogrammetry module  
increases volumetric  
accuracy



### Metrology-Grade High Accuracy

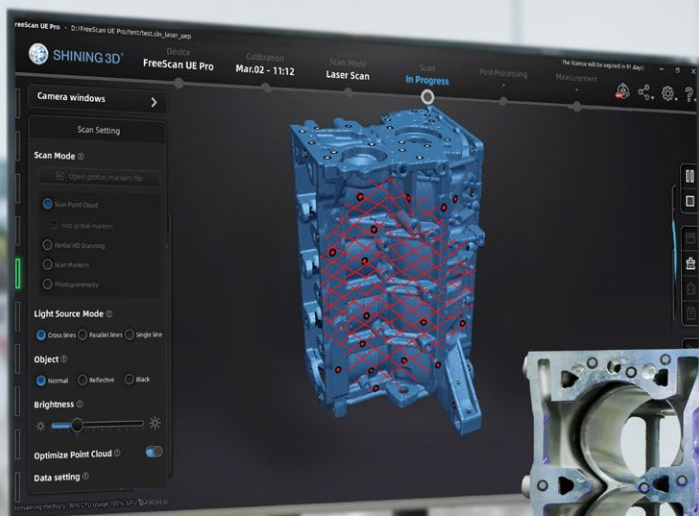
Accuracy up to 0.02mm, delivers consistent scanning results with high precision.



### Global Precision Control

Integrated photogrammetry function no need to apply coded targets, quickly locks the spatial position of the target frame.





## Multiple Scanning Modes

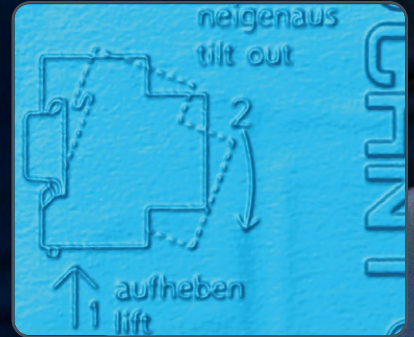
13 cross laser lines to scan large objects quickly, 5 parallel laser lines to scan fine details and single laser line for deep hole and pocket area scanning.



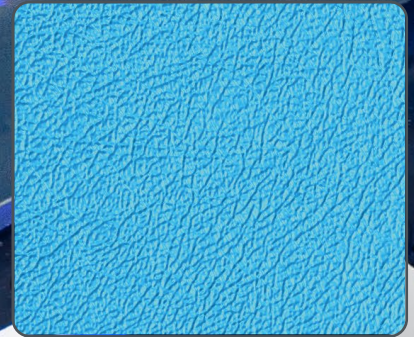
## Easy Operation

Inheriting the lightweight and ergonomic design of the UE series, the user-friendly scanning software enables an easy operation and shortens the learning curve.





Shell of Air Switch ( 3D data )



Prototype Card with Texture ( 3D data )



### Wide Range of Material Adaptations

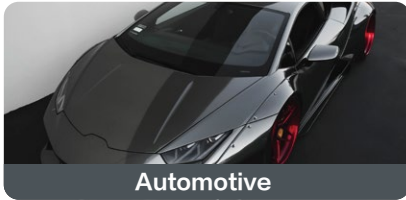
Supports scanning of black and high-reflective surfaces, more efficient scanning process.



### Fine and Rich Details

With higher resolution cameras and 5 parallel laser lines, FreeScan UE Pro enables rich feature object scanning and restores fine details more accurately.

# APPLICATIONS



## Automotive

- Vehicle appearance design
- Supply chain quality management
- Production quality control
- Car modification



## Railway Transportation

- Modeling design
- Production line assembly and debugging
- Overall size control
- Workpiece repair and maintenance



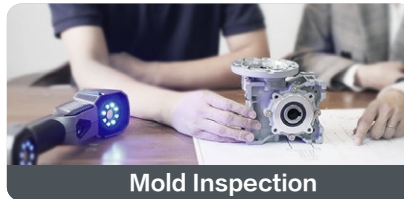
## Aerospace

- Aircraft structure inspection
- Interior design
- Engine inspection
- Maintenance and operation



## Energy Manufacturing

- Reverse engineering design
- Fluid dynamics analysis
- Deformation analysis
- Impeller blade inspection



## Mold Inspection

- Virtual assembly
- Wear analysis and maintenance
- Quality control
- Fixture design



## Machine Manufacturing

- Quality inspection and control
- Tool and mold adjustment
- Rapid prototyping inspection
- OEM and old parts remanufacturing

## Software Update Sharing



## 3D Design Software

**Solid Edge**  
SHINING 3D Edition

**Dx** Geomagic Design X

**Ge** Geomagic Essentials™

## 3D Inspection Software

**Cx** Geomagic Control X

Geomagic Control X  
Essentials

VERISURF



## Over-the-Air-Update

Whenever there is a new update, a notification pops up to enable a direct download of the free software.

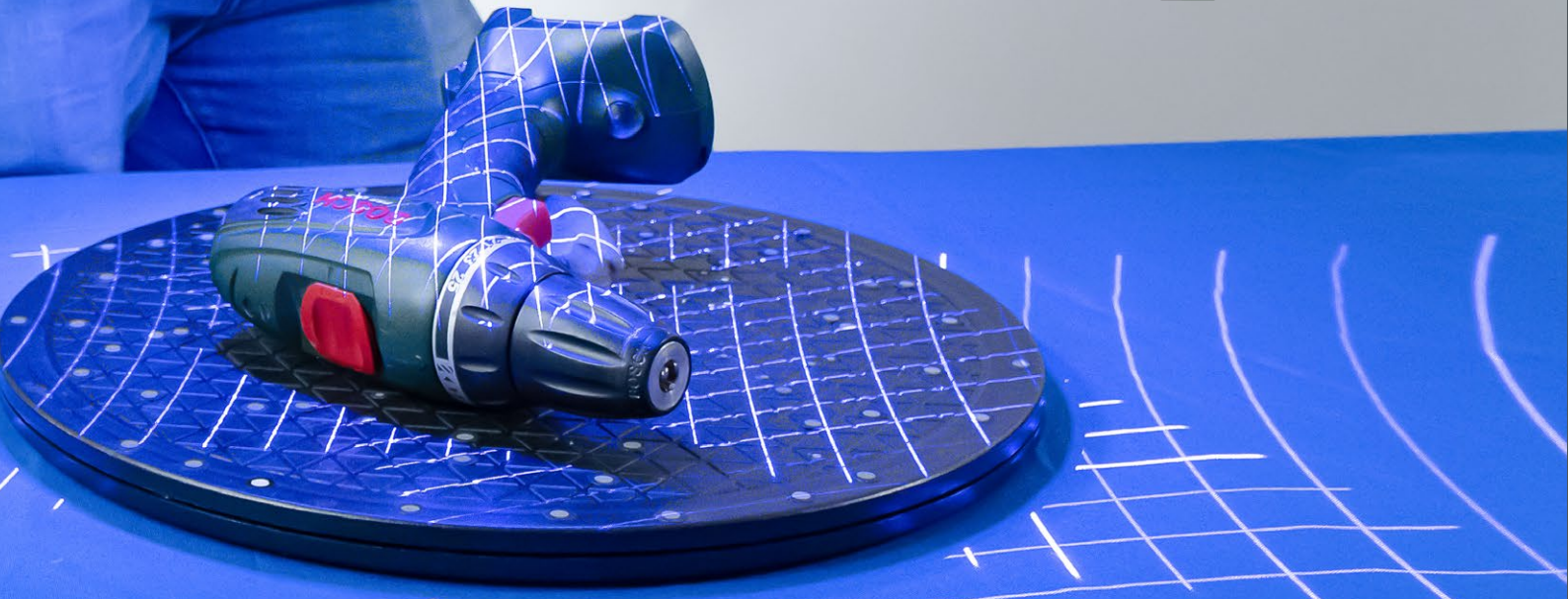
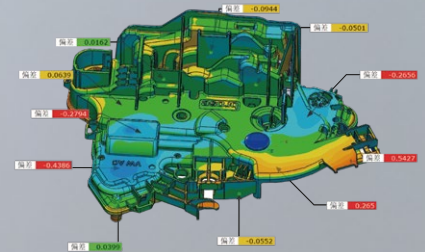
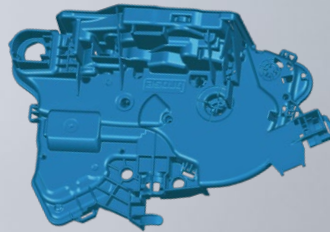
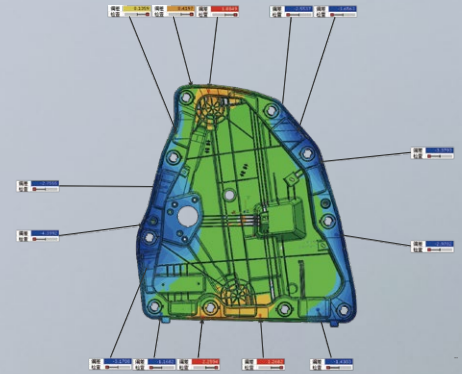
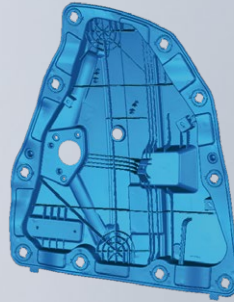


## Seamless docking to inspection and design software

The scan data can be imported into all mainstream 3D inspection and design software programs, such as Geomagic Control X, Geomagic Design X, and Verisurf Inspect with one click, improving the workflow efficiency.



# 3D INSPECTION



# SPECIFICATION

<b>Product Model</b>	<b>FreeScan UE Pro</b>	
<b>Scan Mode</b>	Multiple Lines Scan, Single Line Scan	Fine Scan
<b>Light Source</b>	26 laser lines + single laser line	5 parallel laser lines
<b>Scan Accuracy</b>	up to 0.02 mm	
<b>Scan Speed</b>	1,850,000 points/s	
<b>Working Distance</b>	300 mm	200 mm
<b>Scan Depth</b>	170 mm ~ 680 mm	
<b>Max. Scan Range</b>	600 mm × 550 mm	
<b>Photogrammetry</b>	Built-in scale bar photogrammetry mode	
<b>Volumetric Accuracy*</b>	0.02+0.03 mm/m (standard mode); 0.02+0.015 mm/m (built-in photogrammetry mode)	
<b>Laser Class</b>	Class 2M (eye safe)	
<b>Connection Standard</b>	USB 3.0	
<b>Dimension</b>	298 mm x 103.5 mm x 74.5 mm	
<b>Weight</b>	840 g	
<b>Power Input</b>	12 V, 5.0 A	
<b>Working Temperature</b>	-20 ~ 40°C	
<b>Working Humidity</b>	10 ~ 90%	
<b>Certification</b>	CE, FCC, ROHS, WEEE, KC	
<b>Recommended Computer Configuration</b>	OS: Win10, 64 bit; Graphics card: NVIDIA GTX/RTX series cards, higher or equal to GeForce RTX 3060; Video memory: ≥6 G; Processor: I7-8700; Memory: ≥32 GB	

Note: SHINING 3D reserves the right to explain and modify the parameters and pictures described in this product brochure.