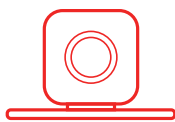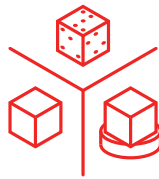# RANGEVISION 3D SCANNER
# SPECTRUM

RangeVision Spectrum is a new high resolution 3D scanner based on the safe-to-use structured light technology. It is designed for scanning small, medium and larger objects. The 3D scanner has three fields of view, 3.1 Mpix industrial colour cameras, being equipped with an automatic turntable to enhance your 3D scanning experience and travel case for easy transportation. RangeVision Spectrum captures complex geometry, flat and long objects, as well as small details with constantly high 3D resolution while keeping the accuracy up to 0.04 mm.

## Spectrum of possibilities

**3.1 Mpix industrial colour cameras**
for highly dataled and full-colour scans

**3 scan modes**
to render complex geometry
of any type of object

**3 fields of view**
to capture different-sized objects
from 1cm to 3m

## Obtain a ready-to-use 3D model for
## any CAD/CAM, 3D modeling or 3D printing software

User-friendly RangeVision software comes with free updates and it is included in the price of RangeVision 3D scanner. Align and merge 3D scans into a complete digital 3D model without exporting to a separate post-processing software - all necessary functions are build-in:

- Manual and automatic scans alignment
- Colour texture
- Holes Filling

- Scans data editing tools
- Simplification of a 3D model
- Export to .STL, .OBJ, .PLY

Small details   Complex geometry   Large objects

## Maximum package contents



1. Two USB-cameras
2. Scanning module with LED projector
3. Automatic turntable
4. Power cable
5. License dongle
6. USB flash with RangeVision 3D scanning software
7. USB-hub
8. Axis evaluation calibration field
9. Calibration field holder
10. Calibration fields
11. Travel case
12. Tripod
13. Quick start guide (inside the case)

## Technical specification

| Cameras resolution | 3,1 Mpix | | |
|---|---|---|---|
| Field of view, mm | 520*390*390 | 280*210*210 | 133*100*100 |
| 3D point accuracy, mm | 0.12 | 0.06 | 0.04 |
| 3D resolution, mm | 0.26 | 0.17 | 0.072 |
| Align modes | by markers, by geomerty, on the automatic turntable | | |

| Automatic turntable | |
|---|---|
| Platform diameter | 125 mm |
| Max load | 5 kg |

| Hardware | |
|---|---|
| Case size | 515*415*200 mm |
| Full package in case weight | 10 kg |

## Spectrum of applications

- Reverse engineering
- Rapid prototyping
- Car tuning, industrial desing

- Product desing
- Education
- Souvenirs and decor manufacturing