AI®
Simple by Design

ENHANCE YOUR PRODUCTION
VISIONSCANNER 4

VISIONSCANNER 4 is the laser triangulation sensor for smart production environments.

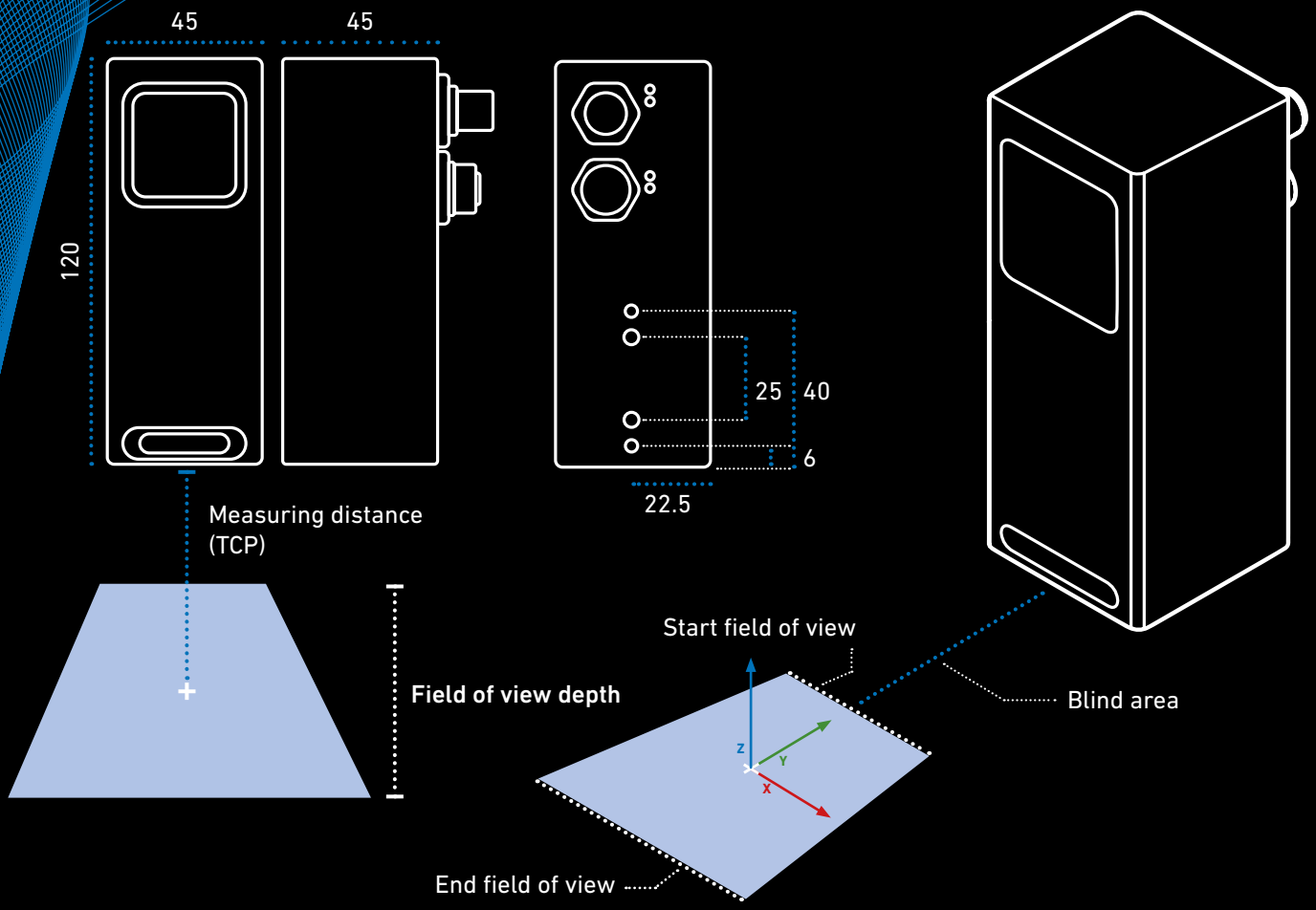
With measuring ranges from 45 to 240 mm, measuring frequencies up to 1,000 Hz and an integrated processor, it can be used cost-effectively and efficiently in a wide range of applications. The VISIONSCANNER4 is available with both red and blue lasers, allowing flexible adaptation to specific measurement requirements. In combination with the VISIONELEMENTS3 software from AI, it is specially designed for use on industrial robots.

FUNCTIONS

- Position tolerance compensation in 3D and 6D
- Robot guidance for quality improvement
- Robot guidance for task handling
- Glue bead inspection
- Presence check

INDUSTRIES

- Automotive
  Bodyshop, final assembly and battery manufacturing
- Machine industry
- Packaging industry
- Lumber industry
- Pharmaceutical industry and medical devices



SPECIFICATIONS OF THE VISIONSCANNER 4 MODELS

MODEL		VS4-45(B)	VS4-85(B)	VS4-240(B)
Measuring frequency	Hz	up to 1000	up to 1000	up to 1000
Measuring distance (TCP)	mm	75.5	112.5	203
Blind area	mm	53	70	83
Field of view depth	mm	45	85	240
Resolution (depth)	mm/px	0.04	0.07	0.22
Start field of view	mm	40	60	92
End field of view	mm	50	85	215
Resolution (width)	mm/px	0.03	0.04	0.07

All models are available with blue (B) or red laser.

GENERAL SPECIFICATIONS

Sensor technology	CMOS sensor
Measuring accuracy	ø ± 0.1 mm depending on sensor type, part geometry and surface
Life time laser diode	40,000 h
Laser class	2
Optical power	15 mW
Ethernet	Gigabit Ethernet 10/100/1000 Mbit, Half-/Fullduplex, Autonegotiation
Power supply	24V DC, max. 400 mA
Wavelength	Red laser 660nm, blue laser 405nm

Dimensions	45 x 45 x 120 mm
Weight	approx. 400 g
Protection class	IP 64
Housing	Aluminium, anodized
Environmental conditions (storage)	-20 to 60 °C, max. 90 % relative humidity
Environmental conditions (in usage)	0 to 45 °C, max. 80 % relative humidity max. 2.000m a. MSL
Certifications	CE, UL