

Description

The new **VisiCon dPP Gen2** provides vehicle manufacturers and system integrators with an efficient solution for fast and precise chassis measurement

The new generation of the VisiCon 3D measuring probe **dPP** (**d**ynamic **P**attern **P**rojection) stands out with a new design, future-proof components, and extended software functions — while retaining its reliability and accuracy. Like its predecessor, the probe captures 40 images per second using stereophotogrammetry, which are then used to generate a precise 3D model of the laser-illuminated tire. This allows various chassis parameters such as track and camber to be calculated reliably and in real time. In differential image mode, high image contrast is achieved, effectively compensating for ambient light.

Thanks to its updated hardware and software architecture, **VisiCon dPP Gen2** offers improved IT security, optimized performance, and diagnostic tools. The extended software functions include automatic tire detection, which eliminates the need for time-consuming, vehicle-specific parameterization, thus saving valuable time. Optionally, a synchronized illumination unit measures the height of the wheel arch edge — another advantage for precise wheel alignment.

For standard applications eight laser blocks (2 x 32 laser lines) are used to illuminate the measurement object. For larger tires, variants with ten blocks (2 x 40 laser lines) or twelve blocks (2 x 48 laser lines) are available. For the operation of a wheel aligner, four probes are optimally combined into a single integrated system using the *VisiWheAl* measurement software.

Benefits for our customers

- **future-proof components** and long-term spare parts supply
- **increased IT security**
- **extended software functions**
- reliable measurement technology and software
- large measurement range, one probe per tire
- insensitive to ambient light
- fully compatible with the *dPP*



dPP Gen2



dPP Gen2 with illumination unit



Differential image

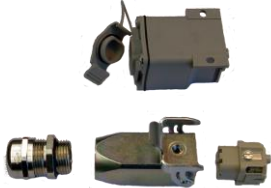
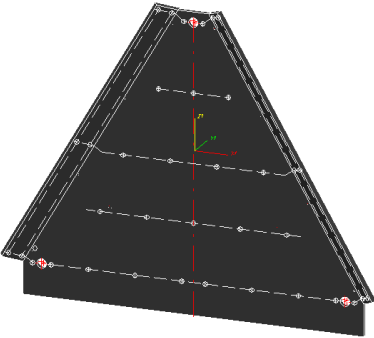
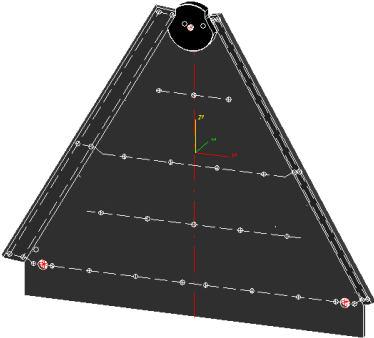
Order numbers

	Order number
dPP Gen2 32	B253340
dPP Gen2 40	B253341
dPP Gen2 48	B253342

Technical data

	dPP Gen2 32	dPP Gen2 40	dPP Gen2 48
Size (H x W x D)	744 mm x 300 mm x 125 mm		
Weight	13.5 kg	14 kg	14.5 kg
Dimensions incl. packaging (H x W x D)	830 mm x 350 mm x 200 mm		
Weight (incl. packaging)	14.5 kg	15 kg	15.5 kg
HS code	90319000		
Power supply	24 V DC		
Max. input current/rated current	5 A		
Max. connected load	120 W		
Typical power consumption	<30 W (standby 11 W)	<33W (standby 11 W)	<35 W (standby 11 W)
Measurement frequency	40 images per second (20 differential images per second)		
Reproducibility on measurement standard	Toe $\pm 0,1'$ Camber $\pm 0,2'$		
Accuracy on measurement standard	Toe $\pm 1'$ Camber $\pm 2'$		
Protection type according to DIN EN 60529	IP 54		
Laser class according to DIN EN 60825-1	2M		
Wavelength diode laser	655 nm		
Operating distance	1000 mm $\pm$ 200 mm, on request + 400 mm		
Operating area of the camera (typical)	Height 690 mm, width 800 mm (at 800 mm operating distance)		
Illumination height on tire	384 mm	480 mm	576 mm
Interfaces	Ethernet 1 GB/s Communication GBit Interface Industrial connector: Harting		
Temperature range	0°C-45°C		
Humidity	Up to 90 %, not condensing		

Accessories

Image	Name and information	Order number
	Illumination unit V3.0	B274908
	Connector set	B251763
	Calibration target	B271691
	Calibration target with calibration disc for illumination unit	B271699
	VisiWheAI software license	B293093
	VisiWheAI truck software license	B293095
	Training	On request
	Mounting	On request