

The non-contact wheel alignment sensor *dPP* employs the stereophotogrammetry method. This technology generates a 3-D model of the illuminated wheel up to 40 times per second. The model data are transformed mathematically into toe and camber measurements. Synchronously the body height can be measured (optional).



● Measurement Principle

- 3D- Object recording by means of stereophotogrammetry and dynamic laser illumination matrix

● Laser Class 2M

- visible semiconductor laser (655 nm)
- Laser power < 5 mW / 35 mm at the exit window
- Irradiance < 25 W / m² : Laser Class 2M

● Integrated Image Processing

- Calculation of 3D-Coordinates
- Transmission of all or selected coordinate - pairs
- COM-Module for real-time analysis
- Reduced data transfer-volume
- Life image mode for diagnostic purposes

● Differential Image Algorithm

- Immunity against high image contrasts
- Immunity against extraneous light
- optimum signal to noise - ratio

● Measurement Frequency

- 40 measurements / sec
- Differential mode: 20 measurements / sec

● Operational Range

- 1000 mm ±200 mm operating distance
- Height 690mm, Width 800 mm at 800 mm distance

● Resolution

- Toe: ±0,5'
- Camber: ± 1'

● Interfaces

- Ethernet 1GB/s

● Power Supply

- 24 ± 20 % VDC
- Startup current: 3A
- Consumption 45W (continuous operation)

● Protection Category

- IP 54

● Dimensions

- 15 kg
- 735 x 300 x 122 mm³ (H x B x T)

