

## Local Fibre Orientation Measurement and Defect Detection

The Apodius Vision System 2D is a modular, production integrated inspection system for composite structures in general and the production of textile fabrics in particular. It provides measurement results of single fibres, semi-finished products as well as cured composite products. A simple and intuitively operable user interface allows for a quick and focused application.

In addition to a production integrated quality control, the Apodius Vision System 2D also supports process automation. Quality characteristics of composite components are measured during their layer by layer build-up and are used for process control in automation. With the Apodius Vision System a sensor solution is provided that is tailored to your application.



### Including

- One year warranty
- One year free software maintenance
- Single user license for Apodius Explorer 2D software
- Apodius connecting cable
- Transportation box
- Two high quality, drag chain suitable cables (data and power)

### Highlights

- IP65 protection class
- Verification of suitability for VDA 5 & MSA
- Autofocused camera
- Up to three fibre orientations measurable
- Applicable to dry fibres and cured products

### Options

- Apodius Custom: Individual integration in automated processes
- Defect library for a fully automated defect detection

### Technical Details

<b>Resolution</b>	1280 px x 960 px
<b>Measurement resolution</b>	0.1° fibre angle
<b>Field of view</b>	Approx. 40 x 35 mm <sup>2</sup> (depending on stand-off)
<b>Focal length</b>	9,6 mm
<b>Working distance</b>	0 - 35 mm
<b>Measurement frequency</b>	10 Hz at 30 fps
<b>Operation modes</b>	Trigger, Continuous, Automated
<b>Power supply</b>	24 V
<b>Operating temperatures</b>	5 - 35 °C
<b>Size L x W x H</b>	188 mm x 139 mm x 97 mm
<b>IP protection class</b>	IP65
<b>Weight</b>	830 g

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