

# CARMEN specification sheet

## Optical specifications

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Bandwidth: 2 THz  
Output power:  $< 10 \mu\text{W}$  at 1 THz  
Focal distance: 130 mm or custom  
Incidence angle:  $14^\circ$   
Polarization: linear s (default) or linear p

## Operational specifications

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Input voltage: 90 to 264 VAC, 47 to 63Hz  
Power consumption:  $< 30\text{W}$   
Power inlet: IEC C14  
Working temperature: 0 to  $40^\circ\text{C}$  at sea level  
Working humidity: 20 to 80%, non-condensing  
Cooling: natural convection, fanless  
Storage temperature: 0 to  $60^\circ\text{C}$   
Storage humidity: 20 to 80%, non-condensing

## Physical characteristics

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Dimensions of main unit: 330 mm x 230 mm x 100 mm  
Weight of main unit:  $\sim 5 \text{ kg}$   
Dimensions of inspection head: 150 mm x 100 mm x 50 mm  
Weight of inspection head:  $\sim 1 \text{ kg}$   
Connection between main unit and inspection head: armoured cable, 1 m (default) or 2.5 m

## Performance characteristics

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Measurement time: 100 ms to 1 s  
Dynamic range: 60 dB with 1 s measurement time  
Depth resolution:  $\sim 20 \mu\text{m}$  (material dependent)  
Lateral resolution:  $\sim 500 \mu\text{m}$

## Data and communication

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Communication protocol: RS232  
Data visualization: Glaze App or API  
Add-on software: Multilayer thickness calculator, two-dimensional imaging, custom.



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