Cube+

PRIMES

Even Smarter

With a new design and larger display, the Cube+ provides a better overview of your measurement results – with even more features to come.

Connectivity

Android iOS

The new Spotlight App is now available for Android and iOS. New look, same energy – stay tuned for what's next.

No Time to Measure?

API

If you prefer running your measurement task automated: No problem! Just use the PRIMES API.

Compact and Powerful

The powerful, compact form factor is preserved for laser power levels ranging from 25 W to 12 kW.

Unleash the Full Power

LDS

The Cube+ can be used with the powerful LaserDiagnostics-Software LDS and all its advantages.

Timestamp

Every measurement is automatically time-stamped for full transparency and traceability.

Keep it Simple

The Cube+ remains to be the most powerful, compact and intuitive device due to its single-button operation!

Compact. Accurate. Easy to use.

The next generation of your everyday, anywhere laser power meter.

440 – 1 100 nm

250 – 380 nm	380 – 780 nm	780 – 3 000 nm	3 – 11 µm
UV	VIS	NIR	IR

- **Power Range** 25 W – 12 kW
- **Reproducibility** ± 1 %
- **Power Density** Up to 12 kW/cm²

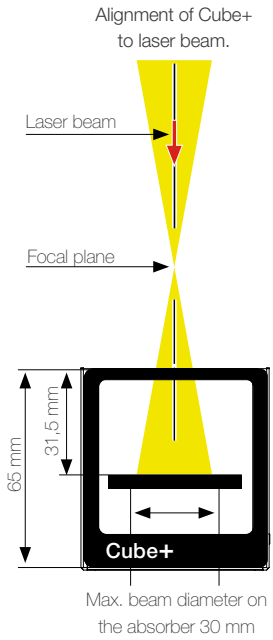
Power

- Large storage capacity
- No water cooling
- Bluetooth, USB-C, API and Interlock
- Single button operation

Precise Laser Power Measurement – Right at the Machine

The Cube+ makes laser power measurement easier, faster and smarter. This compact device delivers highly accurate results directly in production environments – reliable, robust, and ready to use at any time.

With a measurement range from 25 W to 12 kW, intuitive operation, up to 12 kW—benchmark performance for this size category and state of the art connectivity, the Cube+ is the ideal solution for quick power readings in many applications.



The New Standard for Fast Laser Power Measurement

The Cube has been established worldwide as a reliable tool for fast laser power measurement. The Cube+ takes this concept further by adding new features, enhanced connectivity, and an even more user-friendly experience. The result: A powerful measurement device that perfectly combines precision, mobility and digital integration.

Why Choose Cube+?

Designed for Simplicity

Simple one button operation, fast setup and minimal need for device adjustments.

Compact and Robust

You will benefit from the compact design, because it allows measurements directly at the machine without complex setups.

Accurate Results in Seconds

The Cube+ enables you to perform fast and reliable laser power measurements. Ideal for production environments, service operations and quality control.

New SpotLight App

Our new SpotLight App brings powerful measurement visualization and analysis to your fingertips, now available for Android™ and iOS. Connect via Bluetooth® and monitor your data in real time on your smartphone or tablet.

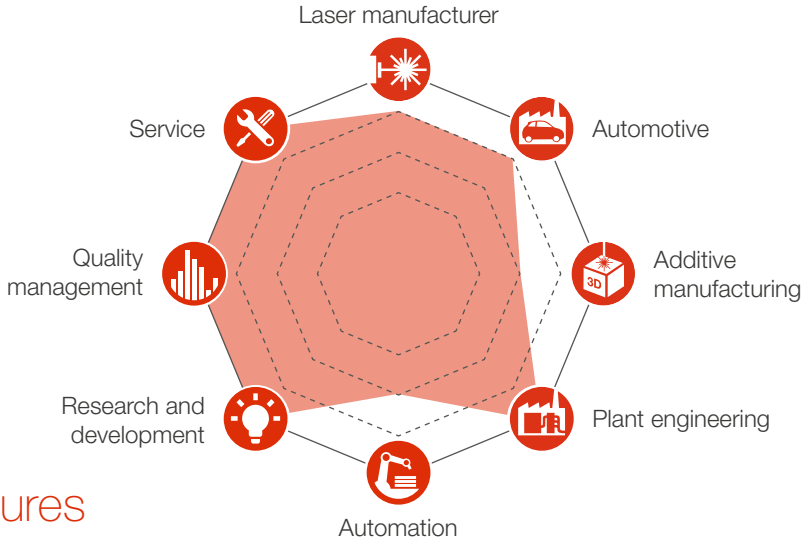
Key parameters such as laser power, pulse duration, and energy per pulse are displayed in clear, dynamic graphs. Each measurement is automatically recorded with precise timestamps, ensuring full traceability and easy data review.

Generate measurement reports on your phone or transfer data to a computer for in-depth analysis using PRIMES LDS. Integrated statistical tools, including standard deviation analysis, provide instant insights.

MEASUREMENT PARAMETERS	CUBE+	
Power range	25 – 12 000 W [1]	
Wavelength range	440 – 460 nm, 510 – 540 nm and 800 – 1 100 nm	
Max. beam diameter on the absorber	30 mm	
Max. power density (peak) on the absorber (approx. 30 mm underneath the aperture) at beam diameters > 10 mm 10 – 3 mm 3 – 1.5 mm < 1.5 mm	 4 kW/cm² 5 kW/cm² 10 kW/cm² 12 kW/cm²	
Irradiation time (depending on laser power)	0.1 – 2.0 s [1]	
Min. on/off times (duty cycle) for pulsed lasers (e.g. max. 10 kHz at 50 % duty cycle)	50 µs	
Max. laser rise time	< 1% of irradiation time	
Energy per measurement	50 – 3 000 J	
Recommended energy per measurement	300 J	
Total duration until measurement value output	< 12 s	
Nominal measurement frequency	300 J: 1 cycle/min 3 000 J: 1 cycle /15 min	
DEVICE PARAMETERS		
Max. absorber temperature	120 °C	
Max. angle of incidence perpendicular to inlet aperture	± 5 °	
Max. centered tolerance	± 2.0 mm	
Measurement accuracy	With calibration at 1 070 nm (within delivery)	With additional calibration at 515 nm (optional)
NIR laser (800 – 1100 nm) Green laser (510 – 540 nm) Blue laser (440 – 460 nm)	± 3 % ± 3,5 % ± 4 %	– ± 3 % ± 3,5 %
Reproducibility	± 1 %	
SUPPLY DATA		
Power supply	Integrated lithium-ion battery with USB-C charging	
Temperature range for charging the lithium-Ion battery	0 – 45 °C	
COMMUNICATION		
Interfaces	USB-C / Interlock	
Software	SpotLight Android / iOS App and LaserDiagnosticsSoftware LDS	
DIMENSIONS AND WEIGHT		
Dimensions (L x W x H) (without connectors)	60 x 65 x 65 mm	
Weight (approx.)	500 g	

[1] The stated limit values are to be understood in correlation with the permitted maximum energy (E = P · t).

Applications



Features

Powerful Features for Modern Laser Diagnostics

The Cube+ is a portable laser power meter designed to measure laser power from 25 W to 12 kW in just a single short exposure. It supports a broad spectrum of industrial applications, from R&D through quality assurance to on-site service. Moreover, state of the art interfaces enable seamless integration into existing measurement systems and production environments. With a USB-C port and an API for automated measurements, the Cube+ is ready for your digital workflows. With the PRIMES Spotlight app for iOS and Android, measurement data can be easily analyzed and documented on your smartphone.

Your everyday, anywhere laser power meter.

Production

- Quick power checks directly at the machine
- Routine quality control

Service & Maintenance

- Verification of laser sources
- Diagnosis of performance deviations

Laboratory & R&D

- Reference measurements
- Process optimization

Other PRIMES Cube Models

- **Cube L1:** operating close to focus at up to 16 kW
- **Cube L:** bigger spots or even more power (up to 20 kW)
- **Cube+ M:** specifically designed for AM machines
- **Cube XT:** up to 150 kW

For further information please visit www.primes.de/cube+

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