# LIGHTmetric One

https://www.gigahertz-optik.com/en-us/product/lightmetric-one/

**Product tags: VIS ,  Handheld device ,**



# Description

## LIGHTmetric® ONE - Precision Meets Innovation

Experience the ultimate in spectral light measurement with LIGHTmetric® ONE, a state-of-the-art device designed for filmmakers, photographers, and lighting professionals. This innovative tool is built with precision and ease of use in mind, offering highly accurate readings of color temperature, illuminance, spectrum, and color rendering. Whether you are fine-tuning a cinematic scene, setting up a photoshoot, or designing the perfect lighting environment, LIGHTmetric® ONE ensures that every detail is illuminated with accuracy. Its compact and lightweight design makes it an essential companion for professionals who need reliable lighting data on the go. With Bluetooth connectivity and a user-friendly mobile app, measuring and analyzing light has never been more seamless.




*LIGHTmetric One*

### Advanced Features for Unmatched Performance

### Comprehensive Light Analysis

The LIGHTmetric® ONE is equipped with the ability to measure Correlated Color Temperature (CCT), illuminance (lux), spectral distribution, and Color Rendering Index (CRI). These parameters are crucial for achieving perfect lighting conditions in photography, film production, architectural lighting, and scientific research. By providing real-time and highly detailed data, this device enables professionals to make precise adjustments to their lighting setups, ensuring optimal visual results every time.



Rotable measuring sensor

### Bluetooth-Enabled App Integration

The device pairs effortlessly with the LIGHTmetric® app, available for both iOS and Android. Once connected, users can store and compare multiple readings, analyze spectral data, and gain deeper insights into their lighting conditions. The app's intuitive interface provides real-time data visualization, making it easier than ever to fine-tune lighting setups in any environment. Whether you are working in a controlled studio or a dynamic outdoor setting, the app ensures that your measurements are accessible and organized.



Tripod attachment option on the back of the device

### Rotatable Sensor Head & Tripod Mount

Designed for maximum flexibility, the LIGHTmetric® ONE features a rotatable sensor head that allows users to measure light from multiple angles. This capability is especially beneficial for cinematographers and photographers who need accurate readings from different positions. Additionally, the built-in tripod mount ensures stable and hands-free operation, making it ideal for long exposure measurements, time-lapse photography, and controlled lighting studies.



SD Card Port and flash sync, controllable via app (Android, iOS)

### Flash Synchronization Port

For studio photographers and cinematographers, the device includes a flash synchronization port that allows precise measurement of flash duration and intensity. This feature ensures that flash lighting is balanced and consistent across multiple shots, eliminating variations in exposure that can affect the final output. With this level of precision, professionals can fine-tune their lighting techniques to achieve consistent results.

## ISO 17025 Certified Calibration

Accuracy is at the core of LIGHTmetric® ONE's design. The device is ISO 17025 certified, meaning it meets rigorous international standards for calibration and measurement accuracy. This certification ensures that every reading you take is reliable and traceable, making it suitable for high-stakes professional applications where precision is non-negotiable.

## Long Battery Life

Designed for extended use, the LIGHTmetric® ONE features a rechargeable USB-C battery that lasts up to 10 hours on a single charge. This long battery life ensures uninterrupted performance, even during demanding shoots and long work sessions. Whether you are working on a film set, in a studio, or conducting field research, you can rely on the device to provide continuous, accurate measurements throughout the day.

## Durable & Lightweight Design

Constructed with high-quality materials, the LIGHTmetric® ONE is both durable and lightweight. Its sturdy build ensures that it can withstand the rigors of professional use while remaining portable enough to be carried anywhere. Whether you are shooting on location or conducting laboratory experiments, this device is designed to keep up with your workflow.

## **Who is LIGHTmetric® ONE For?** Filmmakers & Cinematographers

**In the world of filmmaking, lighting consistency is crucial for maintaining visual coherence. The LIGHTmetric® ONE helps cinematographers analyze spectral data and ensure that lighting remains uniform across multiple scenes. By accurately measuring color temperature and illuminance, it allows professionals to achieve the perfect mood and atmosphere in their productions.**

## Photographers

**For photographers, light quality plays a key role in capturing stunning images. Whether shooting in a studio or outdoors, this device provides essential data on white balance, exposure, and color accuracy. With precise readings, photographers can fine-tune their lighting setups to achieve the best possible results in every shot.**

## Lighting Designers

**Architects, stage designers, and event planners rely on precise lighting to enhance spaces and create impactful experiences. The LIGHTmetric® ONE allows lighting designers to optimize their setups by measuring and analyzing different light sources, ensuring that brightness and color temperature align perfectly with the intended aesthetic.**

## Scientists & Researchers

**In scientific applications, accurate light measurements are essential for conducting experiments, studying biological effects of light, and ensuring precision in lab environments. The device provides reliable data that researchers can use for various studies, including plant growth, human circadian rhythms, and material testing.**

## Architects & Interior Designers

**Proper lighting is crucial for designing functional and visually appealing interiors. The LIGHTmetric® ONE helps architects and interior designers assess the quality and intensity of light in different spaces, allowing them to refine lighting conditions for enhanced ambiance and energy efficiency.**

## Manufacturers & Quality Control Experts

**Industries such as automotive, LED manufacturing, and medical device production require strict lighting standards. This device enables manufacturers and quality control experts to ensure that lighting remains consistent across products, meeting industry regulations and customer expectations.**

Visit the website specially designed for the device

**Details of our LIGHTmetric ONE spectral luxmeter can be found on the specially designed website:**
www.light-metric.com

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## Specifications

| | |
|---|---|
| **General** | |
| Short description | Light meter based on spectroradiometer technology for measurement of the illuminance, spectrum, light color, and color rendering |
| Main features | Mobile light meter, spectroradiometer 360 nm to 830 nm with a 10 nm optical bandwidth and additional optical bandwidth correction (CIE214), precise cosine field of view function ($f_2$), Lithium ion battery with over 8 operation hours and traceable calibration |
| Measurement ranges | 1 lx to 350,000 lx, 360 nm to 830 nm |
| Typical applications | Precise spectral light meter for lighting technology, such as filmmakers, photographers, lighting designers, architects and many more, and a wide range of applications |
| Calibration | ISO 17025 traceable calibration or factory calibration. Traceable to international calibration standards. |
| **Spectral Detector** | |
| Spectral range | (360 - 830) nm |
| Measurement ranges | (1 - 350000) lx |
| Optical Bandwidth | 10 nm with CIE 214 Correction |
| Input optics | 10 mm diameter cosine diffuser |
| CCT Measurement range | (1700 - 17000) K |
| ΔCCT | ± 50 K (standard illuminant A) |
| Δy Δx uncertainty | ± 0,002 (standard illuminant A) |
| **Miscellaneous** | |
| Interface | USB 2.0, Bluetooth |
| Temperature range | +10° C to +30° C |

| | |
|---|---|
| Power Supply | via + 5 V USB |
| | At least 8 hours of operation |
| Dimensions | 136 mm x 74 mm x 32 mm |

## Purchasing information

| Article-Nr | Modell | Description |
|---|---|---|
| **Product** | | |
| 15316140 | LIGHTmetric One | measurement device including calibration certificate |

## Contact, Calibration, Service & Support

We are known worldwide for excellent technical consulting and after sales support. Contact us to find together the best solution for you. Our services:

- Technical Consulting & Sales
- After-Sales Support
- Calibrations & Re-Calibrations (ISO/IEC 17025 Calibration Services, factory calibration, Calibration of Third-Party Products)
- Repairs & Updates
- OEM & Feasibility Consulting of Customized Solutions

Send us your inquiry or contact us by phone or e-mail. We would welcome your feedback too or review us on Google.


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