

# WAVE SPECIFICATION SHEET



illumination

A Halma company

Combining scientific expertise with the resources and global reach of one of the top 100 largest groups listed on the London Stock Exchange (FTSE 100), Wave is unlocking the value of light.

Together, our three hero products; WaveGo, WaveApp, and WaveCloud, equip you with everything you need to optimize the lighting in your environment.

[www.waveillumination.com](http://www.waveillumination.com)

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## Wave specification sheet submittal

Date

Type

Firm Name

Project

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## Spectroscopic

Detector	Custom Spectrometer
Optical resolution	3 nm FWHM
Wavelength range	400-800nm
Number of pixels	1024
Field of view angle	180 degrees
F2 Cosine response	<3%
Integration time	0 $\mu$ s to 1 s
Illuminance range	50 to 1,000,000 lux
Illuminance accuracy	$\pm$ 4% @ 250 lux
Illuminance repeatability	$\pm$ 3% @ 250 lux
x,y accuracy	0.005 @ 250 lux
x, y repeatability	0.005 @ 250 lux
CCT accuracy	$\pm$ 2%
CCT repeatability	$\pm$ 8K @ 2700K
Baseline drift	$\pm$ 3 counts @ 25 $^{\circ}$ C
Thermal stability	0.06 pixel/ $^{\circ}$ C
Unit to unit repeatability	$\pm$ 1.7% @ 4200 lux
Flicker range	5 to 200 Hz
Flicker accuracy	$\pm$ 5%

## Operating Range

Storage temperature	-20 to +60 $^{\circ}$ C
Operating temperature	0 to +50 $^{\circ}$ C
Humidity	0 to 90% non-condensing
IP rating	IP 20

## App

Calculated measurements:	Lux, CRI, Dominant Wavelength, Peak Wavelength, Delta uv, TM-30-15 Rf, TM-30-15 Rg, Flicker Hz, Flicker %, EML, PPF PAR, estimated DLI.
Google Play store link	<a href="https://play.google.com/store/apps/details?id=com.waveillumination.wavego">https://play.google.com/store/apps/details?id=com.waveillumination.wavego</a>
Android supported versions	8.0 and up
Apple App store link	<a href="https://apps.apple.com/us/app/wavego/id1457323560">https://apps.apple.com/us/app/wavego/id1457323560</a>
iOS supported versions	iOS 11.4 and up
Measurement refresh rate	1 Second



## Cloud

Browsers supported	Chrome
Cloud link	<a href="https://cloud.waveillumination.com/#/login">https://cloud.waveillumination.com/#/login</a>

Specifications subject to change without notice. Please check [www.waveillumination.com](http://www.waveillumination.com) for the most current specifications. **June 2020**

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## Electrical

Power requirements	5V DC; 2A
Connectors	USB 2.0 Type C
Battery capacity	3.7 V 2200 mAh
Bluetooth low energy	802.15.1

## Physical

Dimensions	105 mm x 67 mm x 50 mm
Weight	330 g
Material	Aluminum frame, glass face, glass spectrometer lenses, acrylic cosine corrector.
Assembly	Assembled in Taiwan from US and foreign components.
Integrated dark measurement shutter	Yes
Integrated cosine corrector protective shutter	Yes
Accessory mount	Optional

## Certification

Electrical	CE, FCC, EMC, RF
Material	ROHS
Shock	EN61010 - 1:2010
Vibration	EN61010 - 1:2010
Manufacturing	ISO:9001
Environmental	ISO:14001