Lexus SoftMac
www.lexusindia.in

octonus
www.OctoNus.com

An Ideal Light For Every Application

Octonus Adaptive Light
(OEM)

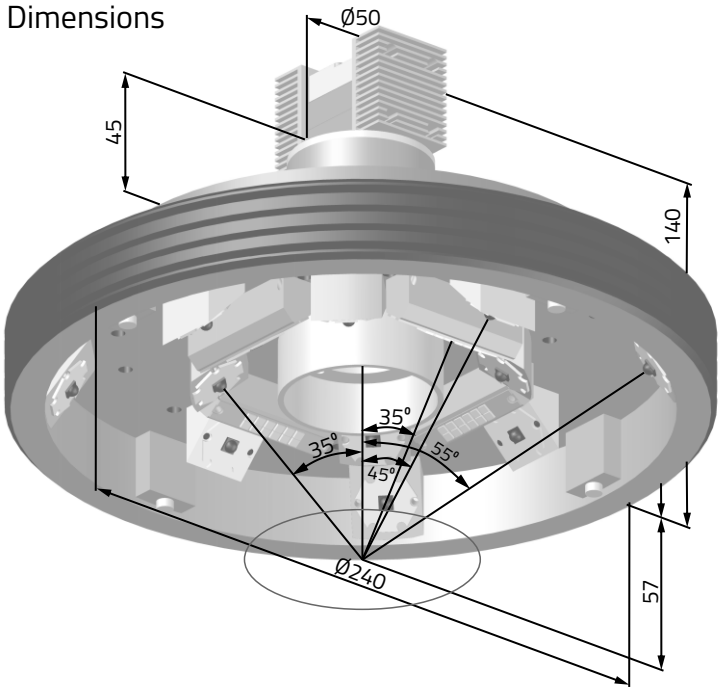
Key Principles and Benefits

- Several high-speed LED lighting sections are turned on and off, one by one, in synchronization with the frame capture.
- These frame sets are integrated to receive the most informative clear image. All this in real-time.
- Images free from overexposure makes it possible to build a robust surface defect detection system, particularly for glossy/shining objects or curved surfaces.
- Opportunity to reconstruct a Normal Map image, suitable for analyzing Microstructure defects, engraving, embossing, etc..
- Photometric Stereo output for 3D reconstruction

Direct Light HDR | Diffuse Light HDR | Adaptive Light

Medicine balls in transparent shell

Dimensions



SDK consists of:

- API as a number of C-headers(*.h). Other programming languages could be supported by an hourglass API design pattern. An hourglass support for C++ language will be included.
  Example of C-header | Example of C++ hover glass wrapper
- Libraries (*.lib) corresponding to headers, thin library implementation, that could be compiled together with any C-compiler for Windows, any Windows runtime
- Redistributable Windows binary components and configs

Main functions of SDK:

- Getting a stream from camera in two modes:
  - RAW camera frames processed by Octonus RAW processing pipeline
  - Adaptive lighting mode (flicker-free illumination)
- Camera triggering is done automatically by a our controller, SDK has functions for capturing frames and their processing
- Switching between lighting modes
- Adjusting the brightness of the frame (camera exposure analogy)
- Several configurations of adaptive light for trade-off between performance and quality

Working with application compiled with SDK will require a dongle

Specification :
Light Assembly (for the sample unit)

Weight	: 2 kgs.
Dimension	: 240 L x 240 W x 140 H mm
Camera	: 2.3 MPxl (1/1.2" CMOS) Color
Field of View	: 80 x 50 mm
Working Distance:	: 57 mm
No. of LED light source	: 16 (8-35°, 4-45°, 4-55°)
No. of Shades	: 3 (White Diffuse, White Diffuse with holes, Black shade with holes)
AL Mounting Diameter	: 50 mm
Front Diameter	: 240 mm

Specification :
Electronic Power Supply Box:

Weight	: 4.25 kgs.
Dimension	: 330 L x 250 W x 100 H mm
Power Supply	: 110-220 V 50-60 Hz – 200W

Computer Specification (not supplied):

Processor	: Intel Core i7-8700K CPU 3.70GHz or higher
Motherboard	: MSI 370-A Pro
RAM	: Corsair 32GB DDR4 RAM or higher
Graphics Card	: NVIDIA GeForce RTX 3070 or higher
SSD	: HiStor SSD 240GB or higher
Hard Disk	: HDD 1TB or higher
LAN Card	: Intel I210 Gigabit Network card x 2 nos.
Operating System	: Microsoft Windows professional 10/11 x64 bit

Ex-Works Price (India)

Euro 3900.00

(Adaptive Light Module, Electronic Box, Standalone windows application, SDK)

Shipping cost – At extra

Gross weight of the shipment – 12 kgs)

Designed by:
Octonus Finland Oy
Office B242 Asemakeskus B building,
Tampere, Finland

Manufacturing & Sales:
Lexus SoftMac,
F03-06, GHB, Gem & Jewellery Park,
Ichchhapore, Surat, INDIA