Model O-12CA-C7BX-V1B

Overview

OSI Module is a near-infrared laser light source, matching high-definition line scanning camera. It is mainly used to detect defects such as hidden crack and missing edges in the whole process.

While using,it is necessary to separate the laser source and the line scanning camera on the upper and lower sides of the measured object.With the performance of better direction of the laser,penetrate the silicon wafer and image it at the end of the camera.Laser has the advantages of longer wavelength, stronger penetration, high brightness, highuniformity and sharper silicon edge imaging.

Besides hidden crack and broken edges, OSI Module can detect a variety of defects such as dirty, finger marks and so on. Users can identify, judge and remove defective products online through computer image recognition technology.

The high-quality imaging of the OSI module, combined with advanced image processing algorithms, enables a very high defect detection rate, reducing the backend breakage rate, saving substantial costs for users, and effectively controlling the quality of supplier materials and real-time detection of process defects.

Characteristics

Superior defect detection, coupled with advanced client algorithms, ensures a very high detection rate.

High uniformity and brightness
Meet differentproduction lines

Hidden cracks and broken edges detected both More cost-effective.

Main Parameters

Type	☑ PERC	☑ TOPCon	☑ HJT		
Process	☑ Raw silicon wafer ☐ Screen Printing	☐ Texturing ☐ Post-furnacing	☐ Front-PE ☐ Post-EL	☐ Post-PE	
Size	☑ 166mm	☑ 182mm	☑ 210mm	☐ 230mm	
External Trigger voltage	☑ 24V	☐ 12V	☐ Not		
Product Form	☐ Convex	☑ L	☐ Z	☐ T	☐ others
Beat (pcs/h)	☑ ≥3600	☐ <3600			
Color	☐ Black	☑ White			

Other Parameters

Parameter	Unit	Typical Value
Luminescence length	mm	235
Safety level		Class 1
Input	V	24
Power	W	150
Ambient temperature	°C	+10 ~ +35
Storage temperature	°C	-20 ~ +60
Dimension	mm	255*120*128

Application Display
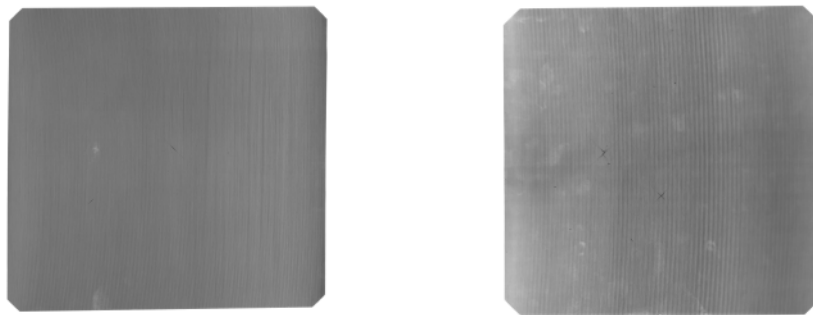
Dimensions（mm）
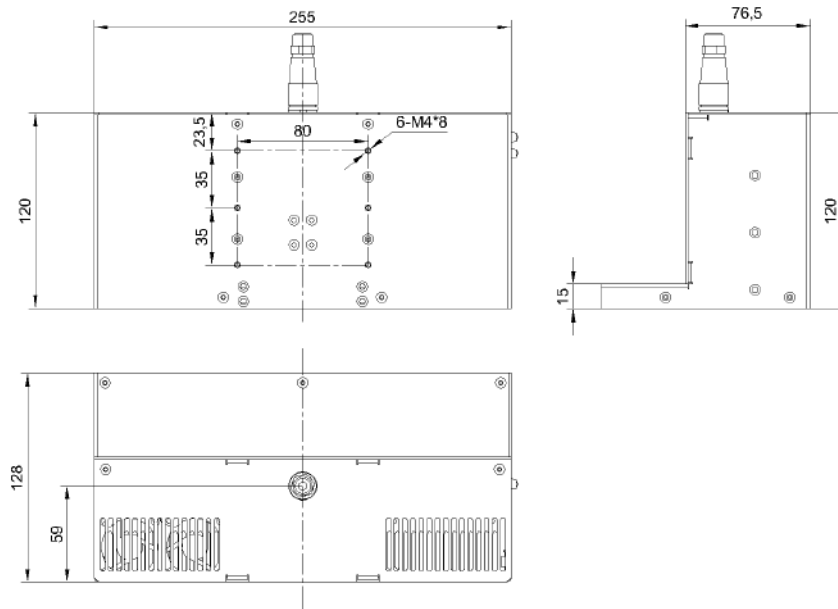
Caution

1. Please keep the laser emission port unobstructed and avoid eye exposure to the laser directly.

2. Please do not plug or unplug laser power plug with electricity to prevent laser breakdown.

3. Please contact the manufacturer promptly in case of any malfunction.
   Do not disassemble it to avoid damaging internal precision components.

CE   LASER 1