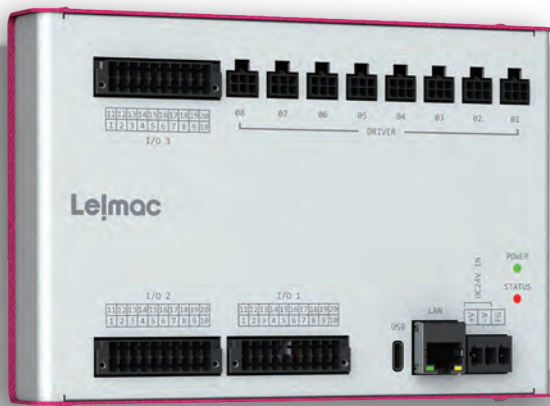


NEW

IHP series

High-Speed Line Scan Strobe Controller



Controller Unit
IHP-C8-TP-P

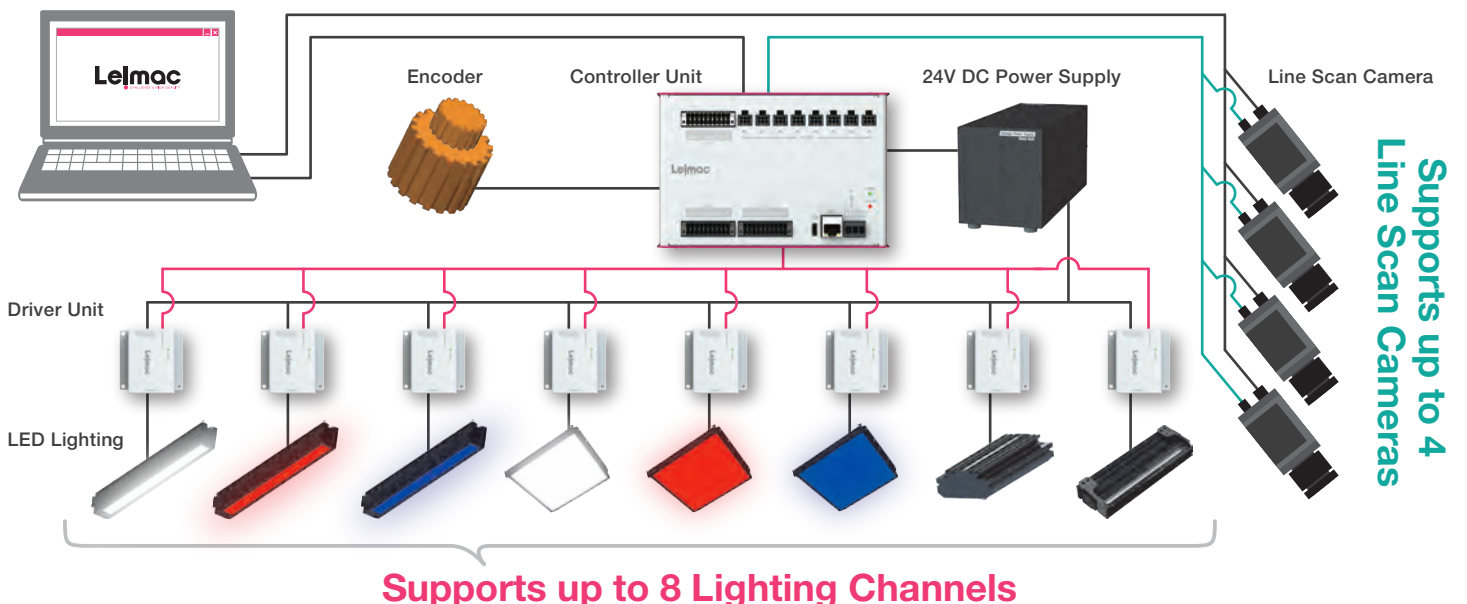
Driver Unit
IHP-D300S-24-P



**8-Channel Programmable
Line Scan Strobe Controller
Up to 32 Sequence Steps**

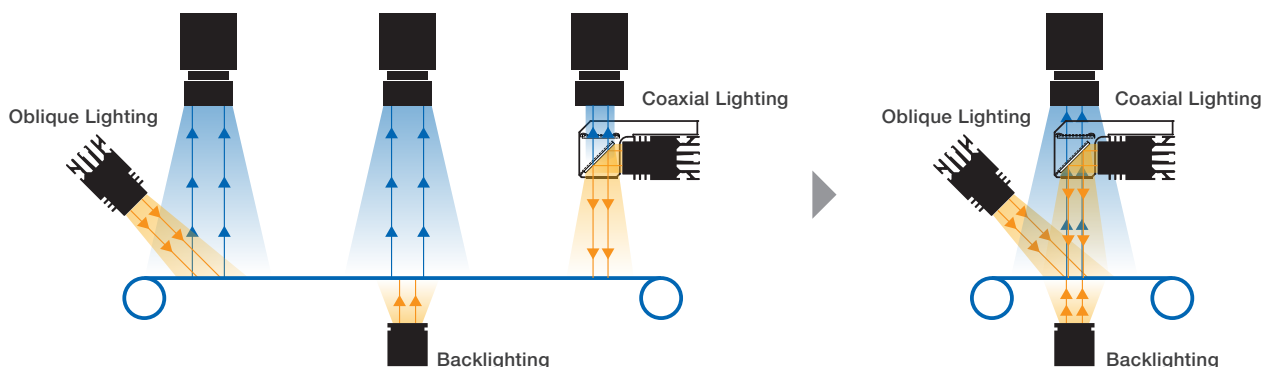
**Capture Images Under Multiple
Lighting Conditions
with a Single Line Scan Camera
Using High-Speed Strobe Switching**

System Configuration



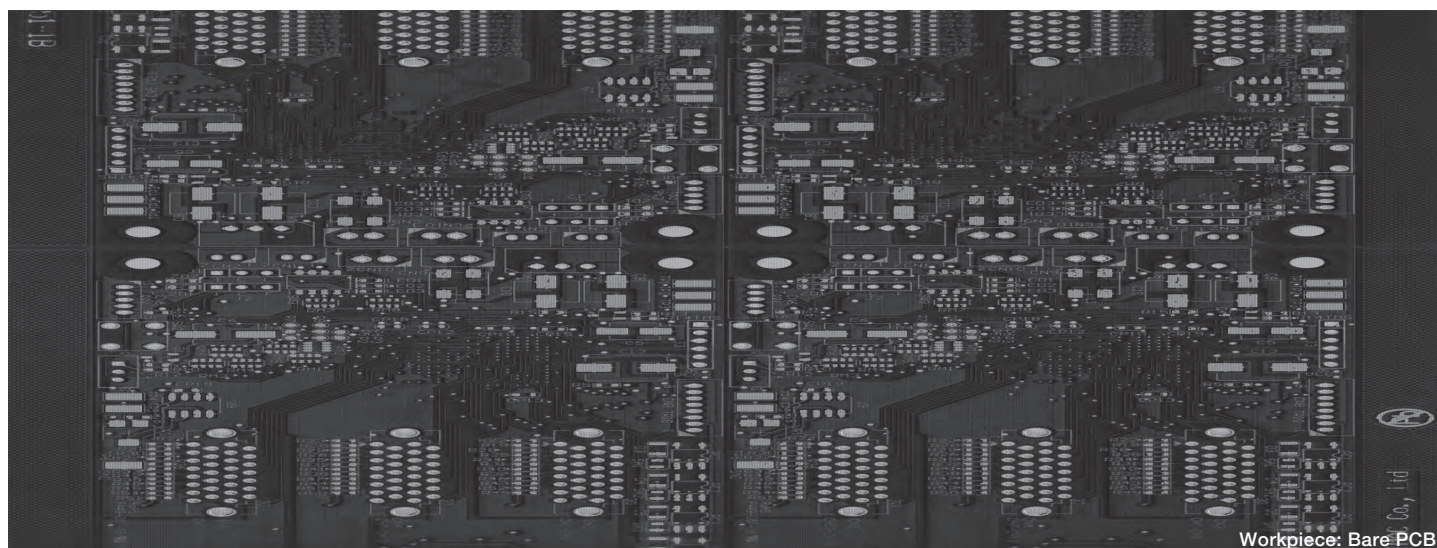
Reduce Inspection System Size with High-Speed Lighting Switching and Line Scan Camera Synchronization

By switching lighting conditions at high speed during conveyor transport, a single line scan camera can capture images under multiple lighting conditions. This enables multiple inspection processes to be consolidated into a single inspection station, reducing system footprint and simplifying system design.



Imaging Example Using Multiple Lighting Types

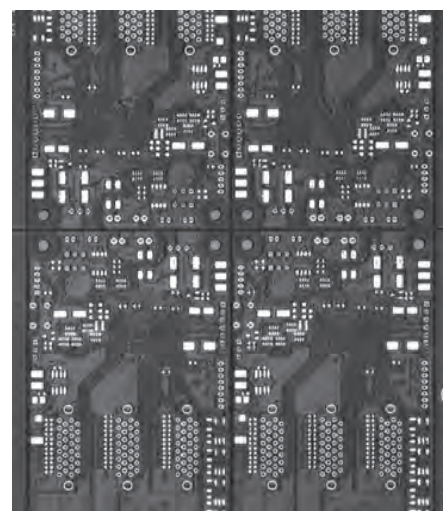
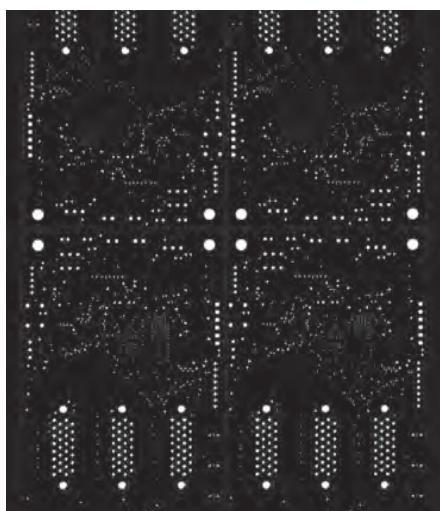
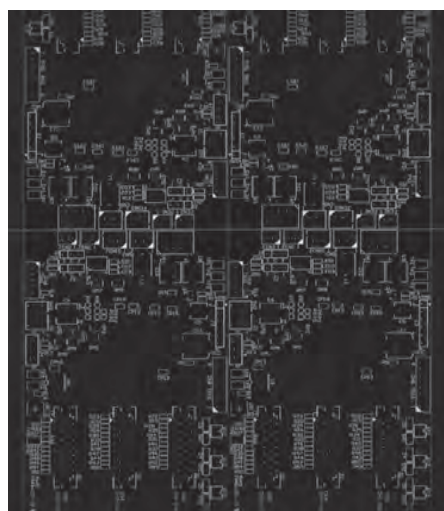
The images below were captured while switching between three lighting types: oblique lighting, backlighting, and coaxial lighting. The line scan camera sequentially records line data captured under each lighting condition. By extracting and reconstructing the lines corresponding to each lighting type, full images equivalent to those captured under each individual lighting condition can be generated.



Oblique Lighting Image

Backlighting Image

Coaxial Lighting Image

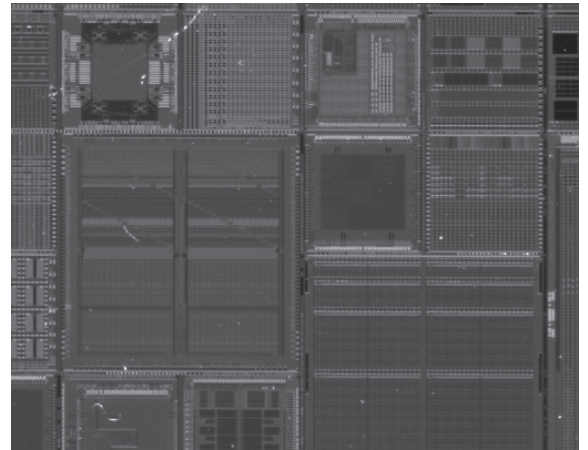


Imaging Example Using Multiple Illumination Colors

The image below was captured by switching among four different lighting colors: white, red, blue, and infrared.



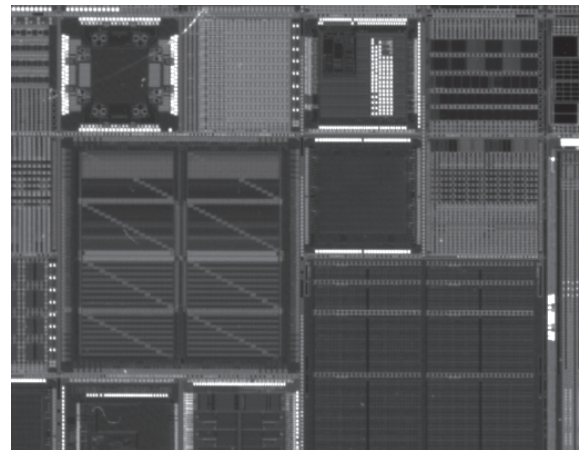
White Illumination Image



Red Illumination Image



Blue Illumination Image



Infrared Illumination Image



Workpiece: Silicon Wafer

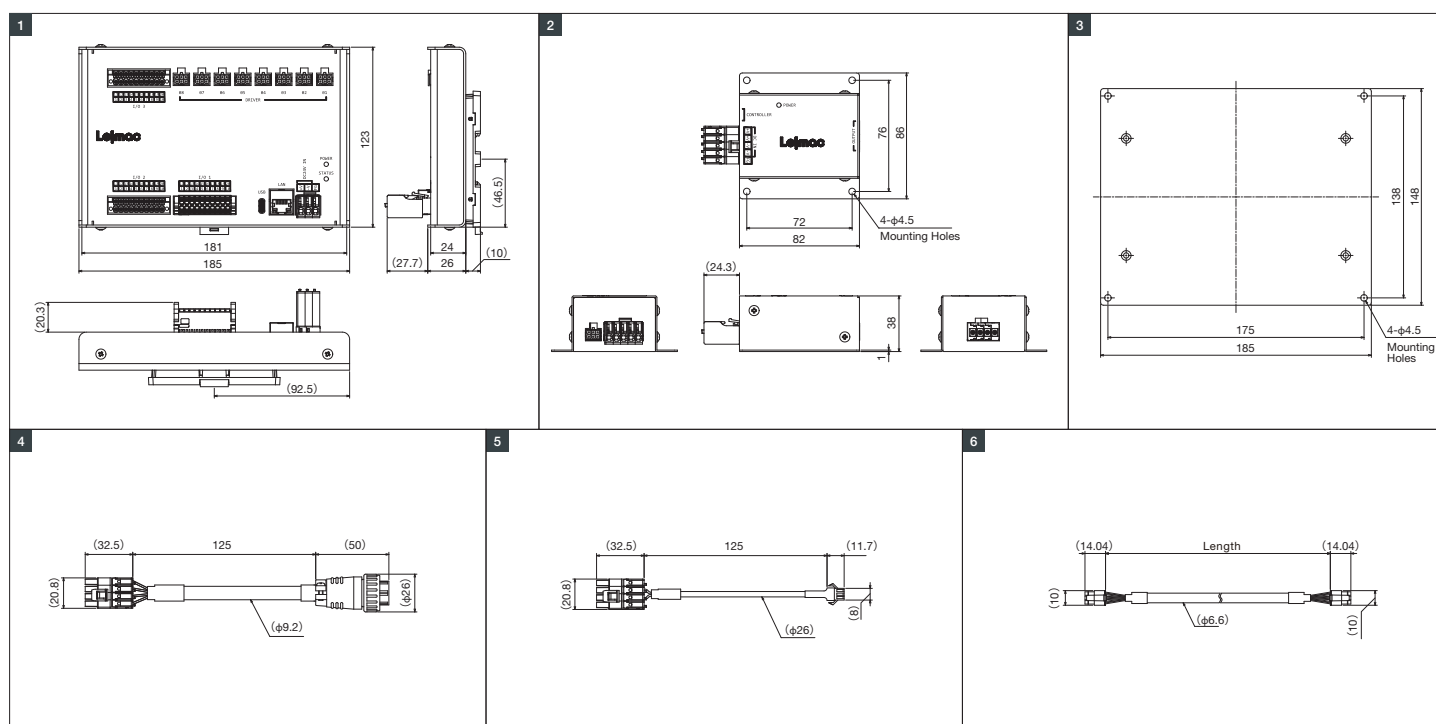
Specifications

Parameter / Model	IHP-C8-TP-P (Controller Unit)	IHP-D300S-24-P (Driver Unit)
Control Method	Constant Voltage Strobe Control	-
Rated Input	DC24V	
Rated Output	-	DC24V
Maximum Output Power	-	300W
External Control	LAN / USB	-
Pulse Width	0 to 2.6214 ms(40 ns increments)	-
Trigger Response	Lighting: $\leq 3.0 \mu\text{s}$, Camera: $\leq 1.2 \mu\text{s}$	-
Drawing	1	2

Options

Model	Description	Drawing
IHP-BR-P	Mounting Bracket for Controller Unit	3
I-CB-HP-D0.12-P1	Lighting Connection Cable (Metacon Connector)	4
I-CB-HP-D0.12-SM-P1	Lighting Connection Cable (SM Connector)	5
IC-HP-1-P1	Controller-to-Driver Control Cable (1 m)	6
IC-HP-2-P1	(2 m)	
IC-HP-3-P1	(3 m)	
IC-HP-5-P1	(5 m)	
IC-HP-10-P1	(10 m)	

Drawing



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* Carried data is for reference. The performance of the product isn't guaranteed.

* The specification of the product and the design are sometimes changed without notice. Please accept it beforehand.