Digital Controller LAN

PoE-capable Control Unit

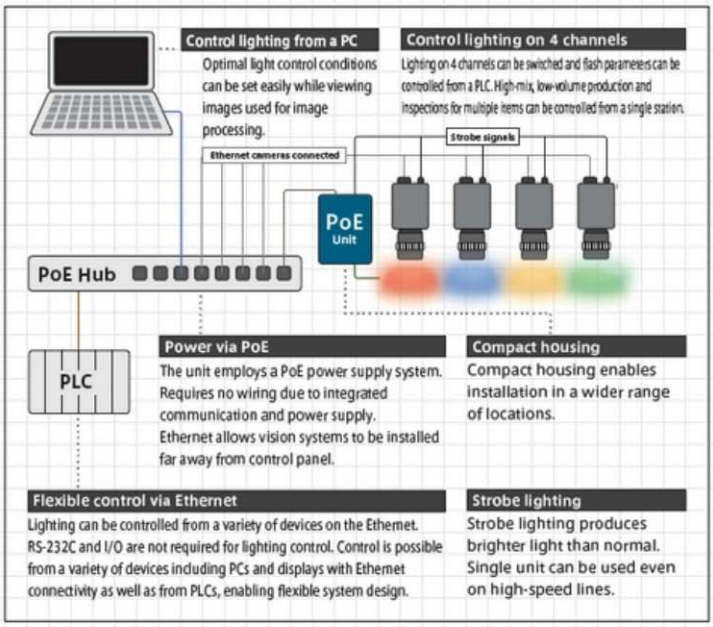
IPSA・IPPA series

Reduce overall system costs

Intelligent lighting with pulse/strobe light control that does not require a power supply due to Power over Ethernet (PoE)

IMAC has created a more sophisticated lighting system by integrating controls using Ethernet. This not only increases the degree of flexibility of control, but also helps reduce total system costs through advanced image processing applications; high-mix, low-volume manufacturing; and labor-saving initiatives in system development and manufacturing.

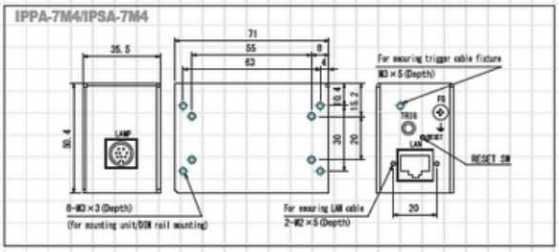
Example Connection (Conceptual Diagram)



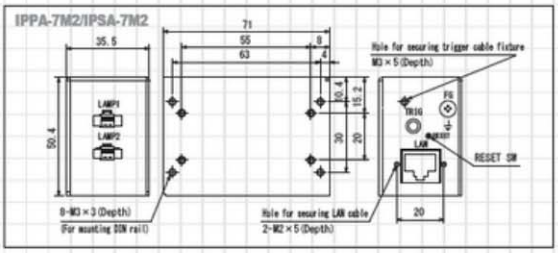
CE Compliant

Drawing

IPPA-7M4/IPSA-7M4



IPPA-7M2/IPSA-7M2



Sample Software Examples

Sample Software for IPSA

Sample Software for IPPA

Power Supply Specifications

Strobe specifications IPSA-7M4/IPSA-7M2

Communication System	TCP/IP protocol (100M/10Mbps)
Input	Power supply from PoE injector (PoE standard: IEEE 802.3af)
Output	Voltage: 12 to 36 V (Variable)
	*1 Capacity: Connected lighting/30W or below
	Current: 4 A or below (Peak strobe current)
	Duty cycle: 5% or below (With interlock protection circuit function)
	Pulse width: 1 ms or less (0 to 999 µs)
	Light control: 10 bit (1,024 levels)
Trigger Response Speed	Approximately 1 µs
Voltage Variation Response Speed	max. Approximately 70ms
Delay Time	0 to max. 5 ms (with variable function)
Internal Light	Frequency: 4 kHz / Width: 12.5 µs (fixed)

PWM normal light specifications IPPA-7M4/IPPA-7M2

Communication System	TCP/IP protocol (100M/10Mbps)
Input	Power supply from PoE injector (PoE standard: IEEE 802.3af)
Output	Voltage: 12 V (fixed)
	*2 Capacity: Connected lighting/30W or below
	Current: 650 mA
	PWM approx. 80 kHz
	Light control: 8 bit (256 levels)
Trigger Response Speed	Approximately 1 µs

*1 There are limits on light emission width and trigger frequency when using lighting with a total of 7.8 W or more on 4 channels.
*2 Output voltage drops when using lighting with a total of 7.8 W or more on 4 channels.