

PWM(Pulse Width Modulation) Dimming Controller

# PoE Compatible Control unit [IPSA·IPPA Series]

Propose cost reduction for the entire system



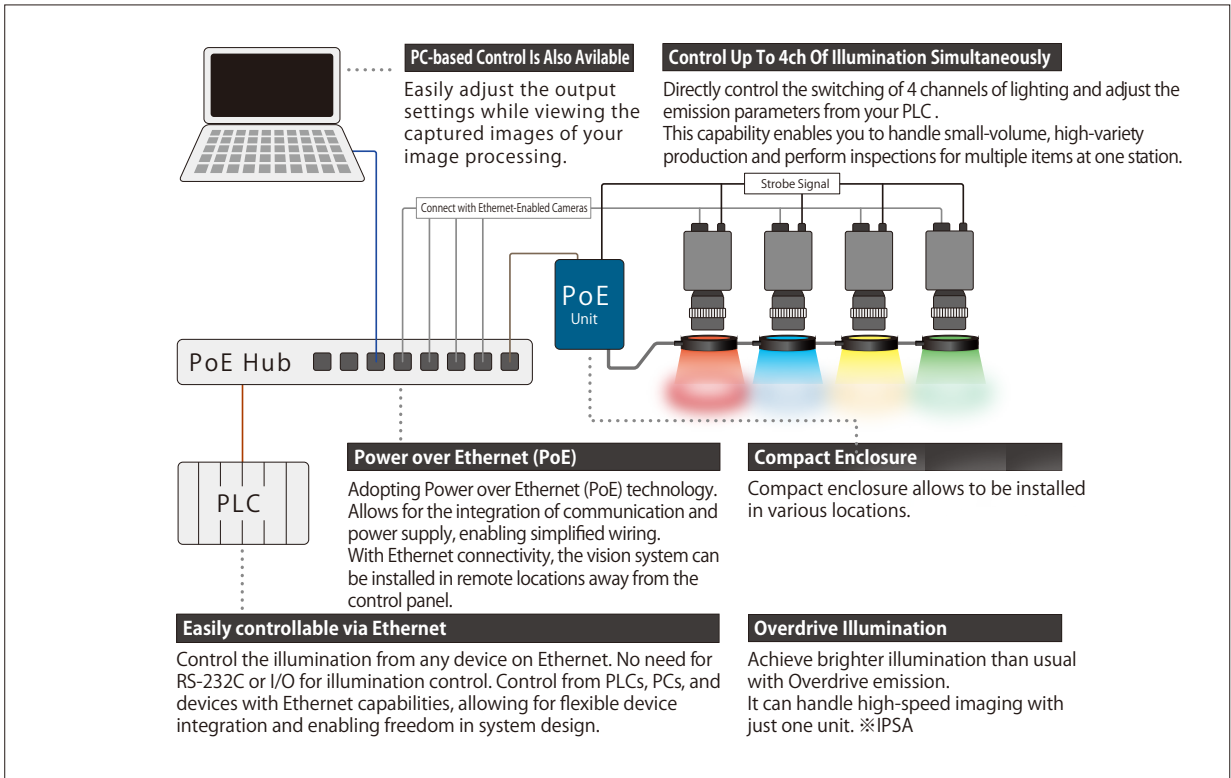
**2 types of control controller units are released that can perform high-speed switching and lighting of up to 4 channels of illumination using power over Ethernet signals, which is an industry first. These control units support both strobe and overdrive as well as PWM control.**



## Intelligent Lighting Solution That Realizes [Pulse & Overdrive/Strobe Control] Using Poe (Power Over Ethernet).

**Our integration of control via Ethernet has brought advanced capabilities to the lighting system. Not only does it enhance control flexibility, but it also enables advanced image processing applications, facilitates handling of small-scale, high-variety manufacturing, and streamlines system development and manufacturing processes, leading to cost reductions across the entire system. Experience the power of Ethernet integration and unlock new possibilities for your lighting system.**

### Example Of Connection(Image)



- Line illumination products
  - Ring illumination products
  - Bar illumination products
  - Transmitted/area illumination products
  - Dome illumination products
  - Ceiling illumination products
  - Special illumination products
  - Kit products
  - Controller products
  - Other illumination products
- IDBB-LSRF
  - IDBC-LSR
  - IDBB-LSRH
  - IDBB-LSRA
  - IDBB-LSRS
  - IDBC-LSRC
  - IDBB-LSRC
  - IDBC-RE
  - IDBB-RE
  - IDBA-RK
  - IQDH-RE
  - IMAR-D\_8ch
  - IDR-LA-8ch
  - IDRA-T-8ch
  - IMAR-D
  - IMAR-CT D
  - IHR-LE
  - IHRB · IHRA
  - IDR-F
  - IDR-F33/16
  - IDR
  - IDR-LA
  - IDRA-T
  - IFR · IPR
  - IDBA-HM
  - IDBA-HMS
  - IDBA-HMS-IR
  - IDBA-FD
  - IDBA-LEH2
  - IDBA-LEH
  - IDBA-LE
  - IDBA-SE
  - IDBA-SL
  - IDBA
  - IDBA-Q
  - IFLA · IFLB
  - IDHM
  - IHMA
  - IHMA-V
  - IFPA
  - IFD
  - IFD-IR
  - IHMA-40D
  - IFPA-D
  - IPOC
  - IFHA
  - IDDB-KH · IDDA-KH
  - IDUB
  - IDD
  - IDD-CB
  - IQD · IQDH
  - IQDA-CB
  - IFVA · IFVB
  - IFVA-ST
  - IFV
  - IV-14 · IV-30
  - IHV-20 · IHVE-21
  - IHVA-SP · IHSL-SP
  - IBF
  - IHV-FX
  - RBOX
  - IDBB-CH
  - IDHRA
  - UV-CAN
  - Infrared
  - Infrared
  - IMAR-RGB
  - IDDA-KH-RGB
  - RGB Full-color
  - ISU
  - ISS
  - Introduction of Customization
  - High-speed and high-resolution color kit products
  - ISC-24
  - Image capture evaluation kit products
  - IDMU
  - ILP
  - ILC
  - ILV
  - ILS
  - IPPA\_G · IRPA\_G
  - IPSA · IPPA
  - IDGC
  - IDPA
  - IDCA
  - IMC
  - IWDV-24
  - IWDV(S)-48
  - ISC
  - IJS
  - IJS-30M2-TP/SS
  - ILS-40M2-PI/SS
  - SAG
  - SLLUB
  - LLUB
  - IFIC

Line illumination products  
 Ring illumination products  
 Bar illumination products  
 Dome illumination products  
 Special illumination products  
 for products  
 Controller products  
 for illumination products

Sample Software Examples

For IPSA



For IPPA



Controller Specifications

Overdrive Specification : IPSA-7M4-C2/IPSA-7M2-C2

Communication Method	TCP/IP Protocol (100M / 10Mbps)
Input	Powered by PoE injector (PoE compliant with IEEE802.3af)
Output	Voltage: 12-36V (adjustable)
	Capacity: Total of connected illuminations up to 30W ※1
	Current: Up to 4A (peak current)
	Duty: Less than 5% (with interlock protection circuit)
	Pulse Width: Less than 1ms (0-990 μs)
	Output Voltage Control: 10-bit (1,024 levels of gradation)
Trigger Response Speed	Approx. 1 μs
Voltage Variable Response Speed	Up to 70ms Max.
Delay Time	0 to max 5ms (with variable function)
Internal Trigger	Cycle: 4kHz / Pulse Width: 12.5 μs (fixed)

PWM Continuous Illumination Specification: IPPA-7M4-C2 / IPPA-7M2-C2

Communication Method	TCP/IP Protocol (100M/10Mbps)
Input	Powered by PoE injector (PoE compliant with IEEE802.3af)
Output	Voltage: 12V (Fixed)
	Capacity: Total of connected illuminations up to 30W ※2
	Current: 650mA
	PWM approx. 80kHz
	Output control: 8bit (256 levels)
Trigger Response Speed	Approx. 1 μs

※1 Please note that there are limitations on the pulse width and trigger period when connecting illuminations above 7.8W.  
 ※2 If illuminations above 7.8W are connected, the output will be limited to 7.8W.

