# PoE-capable Control Unit IPSA·IPPA series

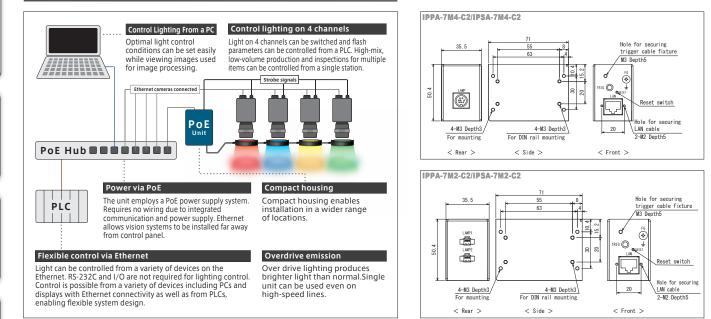
Reduce overall system costs

## CE

#### Intelligent lighting With 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)**



### Sample Software Examples

#### Sample Software for IPSA Port 3100 Connect Cut trol Unit IPSA-7M2 Ich 2ch 8ch 4c OFF • OFF • OFF • Pulse Width(μS) Voltage Delay Time(μS) (0~999) (0~1023) (0~5000) Ich 1 0 0 Pattern No. Receive al Light 4kHz 3ch Send 2ch 1 • 0 • 0 • AutoSe Receive Val Sch Send Pattrem Data Receive Pattern Data (DA) @Save the Light Control Data @Status Receive Switching Exc Send Data to the Unit sution Pattern N Send Send Receive Data from the Unit Receive Glear Sample Software for IPPA

| Pattern No.(1~8    | )             | (0~255)                   |      | PWM Duration<br>(0~9999×10uS) |  |              | Delay Time<br>(0~9999×10uS) |   |
|--------------------|---------------|---------------------------|------|-------------------------------|--|--------------|-----------------------------|---|
| 🗖 AutoSet          | Ich           | 0                         | 0_   | 1ch                           |  | Ich          | 0                           | 0                                       |
|                    | 2ch           | 0                         | 0_   | 3ch                           | $[]_{\underline{a},\underline{a},\underline{b},\underline{a},\underline{b},\underline{b}} = \underline{a}_{\underline{a}}$ | 2ch          | 0                           | 0_                                      |
|                    | Sch           |                           | 0_   | Sch                           |  | Sch          |                             | 0                                       |
|                    | 4ch           |                           | 0_   | 4ch                           |  | 4ch          |                             | 0                                       |
| Send Rec           | eire .        |                           |      |                               |  |              |                             |   |
| ©ON/OFF            |               | 20h 🗌 4ch<br>Send 📄 🛛 Reo | eive | ©Gwitz<br>1                   | hing Execution Pattern No.   | nd 🗌         | Receive                     | BGave the Light<br>Sentrol Data<br>Save |
| @Gtatus<br>Receive |               |                           |      |                               | ©Network setting   | . Setting Me | nu.                         |   |
| QLighting Trigger  | Signal<br>2ch | 1ch                       | 4ch  | Send                          |  |              |                             |   |

#### **Power Supply Specifications**

#### Over drive specifications IPSA-7M4-C2/IPSA-7M2-C2

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

FG

TRIG

LAN

#### PWM normal light specifications IPPA-7M4-C2/IPPA-7M2-C2

| Communication System   | TCP/IP protocol (100M/10Mbps)                                  |  |  |  |
|------------------------|--|--|--|--|
| Input                  | Power supply from PoE injector<br>(PoE standard: IEEE 802.3af) |  |  |  |
|                        | Voltage: 12 V (fixed)  |  |  |  |
|                        | Capacity: Connected light/30W or below *2                      |  |  |  |
| Output                 | Current: 650mA   |  |  |  |
|                        | PWM approx. 80 kHz   |  |  |  |
|                        | Output Control:8 bit (256 levels)                              |  |  |  |
| Trigger Response Speed | 1 µ s  |  |  |  |
|                        | •  |  |  |  |

<sup>11</sup> There are limits on light emission width and trigger frequency when using light with a total of 7.8 W or more on 4 channels. <sup>2</sup> Output voltage drops when using light with a total of 7.8 W or more on 4 channels.

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Special

Light

Coaxial