

NEW

PWM(Pulse Width Modulation) Dimming Controller Multi-channel High Function Digital PWM Controller [IDGC Series]

PWM digital controller capable of 256-level dimming
Lineup of 45 models is available with combinations
of output capacity and external control methods



A multi-functional controller with enhanced external control capabilities, including LAN communication, RS-232C communication, and 8-bit parallel/analog 0-5V communication.

TP · S2 model is Standard equipped with programming functions , external trigger output capabilities & Leimac Discovery※

※Ability to discover and access Leimac products on the network, as well as modify network settings such as IP addresses.



IDGC-100M8-TP
(LAN Communication Model)



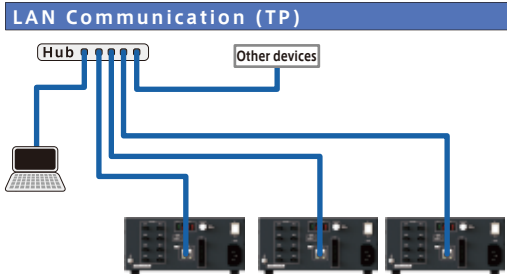
IDGC-100M8-S2
(RS-232C Communication Model)



IDGC-100M8-PV
(8-bit Parallel/Analog 0-5V Communication Model)

Enhanced External Control Functions

Three types of external control options: [TP: LAN communication] [S2: RS-232C communication] and [PV: 8-bit parallel communication/Analog 0-5V switching]. You can choose the external control that suits your specific environment.



With LAN communication, multiple devices on the network could be centrally managed by one PC.

RS-232C Communication (S2)



8-bit Parallel Communication (PV)



Parallel communication allows the switching of setting values at high-speed.

Analog 0-5V (P V)



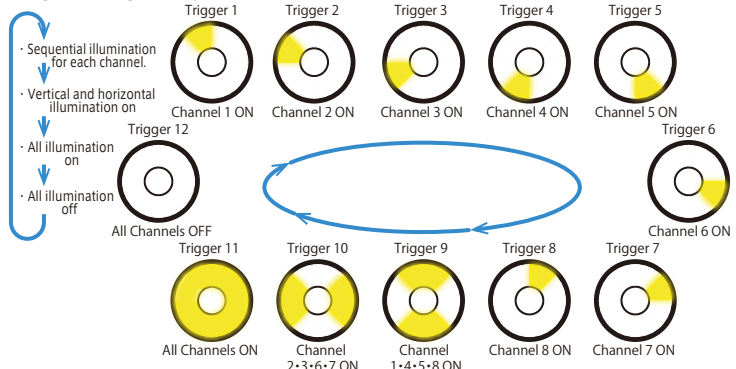
It can be controlled using an analog signal of 0-5V. Simply varying the applied voltage allows control of the output.

Programming Functions(TP/S2 Type Only)

The [TP: LAN communication] type and [S2: RS-232C communication] type have both the normal mode and programming mode functions, allowing to use either mode as needed.

- In programming mode
 - Up to 4 operation patterns can be registered, and each operation pattern can have up to 16 output patterns based on trigger signals.
 - The output type can be selected as either level type (output based on trigger input duration) or edge type (output until a pre-set time).
 - The output pattern can be generated based on the configured output pattern for each trigger signal. The output pattern repeats for each cycle of the configured trigger signal count.
 - In the output pattern, you can configure 「output ON/OFF, output value, and output time (for edge type setting)」 for each channel based on the trigger signals.
 - The operating modes can be set via LAN communication, RS-232C communication, or through the I/O connector (CN1).

Programming Examples



Line illumination products
Ring illumination products
Bar illumination products
Dome illumination products
Transmitted/area illumination products
Special illumination products
KIT products
Introduction of Customization
High speed synchronization color kit products
ISC-24
Image capture evaluation kit products
Controller products
Dome illumination products

A Wide Range Of Variations Is Available With A Total Of 45 Models.

A lineup of 45 models is available, offering variations in input voltage, output voltage, output capacity, number of channels, and external control methods. This wide range allows you to choose the optimal controller that suits your specific illumination combination and environment.

Model	Input Voltage	Output Voltage	Rated Output Capacity (W)	Capacity (W)	Channel Number	Weight (g)	Exterior Diagram			
IDGC-30M2-**	AC100~240V	DC12V	Less than 30W /1 Ch	30	2CH	700	1			
IDGC-30M4-**					4CH	1,100	2			
IDGC-30M8-**					8CH	1,100	2			
IDGC-50M2-TP				2CH	1,200	3	2CH	1,200	3	
IDGC-50M4-TP							4CH	1,200	3	
IDGC-50M8-TP							8CH	1,200	3	
IDGC-100M2-**		DC24V	Up to 30W per connector	Up to 30W per connector	30	2CH	700	1		
IDGC-100M4-**						4CH	1,400	4		
IDGC-100M8-**						8CH	1,400	4		
IDGC-30M2-24-**					Up to 50W per connector	50	3	2CH	700	1
IDGC-30M4-24-**								4CH	1,200	3
IDGC-30M8-24-**								8CH	1,200	3
IDGC-50M2-24-TP	Up to 70W per connector		100	4	2CH	700	1			
IDGC-50M4-24-TP					4CH	1,400	4			
IDGC-50M8-24-TP					8CH	1,400	4			
IDGC-100M2-24-**	Up to 50W per connector		46	5	2CH	600	5			
IDGC-100M4-24-**					4CH	1,000	6			
IDGC-100M8-24-**					8CH	1,000	6			
IDGC-50M2-24-TP-T	DC24V	Up to 70W per connector	144	4	2CH	600	5			
IDGC-150M4-24-TP-T					4CH	1,000	6			
IDGC-150M8-24-TP-T					8CH	1,000	6			

★ At the end of the model, ** is indicated with a symbol for external control type. ★ The number of channels determines the difference in the external dimensions diagram and the number of illumination connection connectors.
 • TP: LAN communication type • S2: RS-232C communication type
 • PV: 8-bit parallel communication/analog 0-5V communication switchable type ★ For DC 24 model, the output connector shape is different.

Common Specifications

Control Method	Approx. 125kHz PWM
External Control	External control ON/OFF, External control dimming
Protection Function	Overcurrent protection and fan abnormality alarm

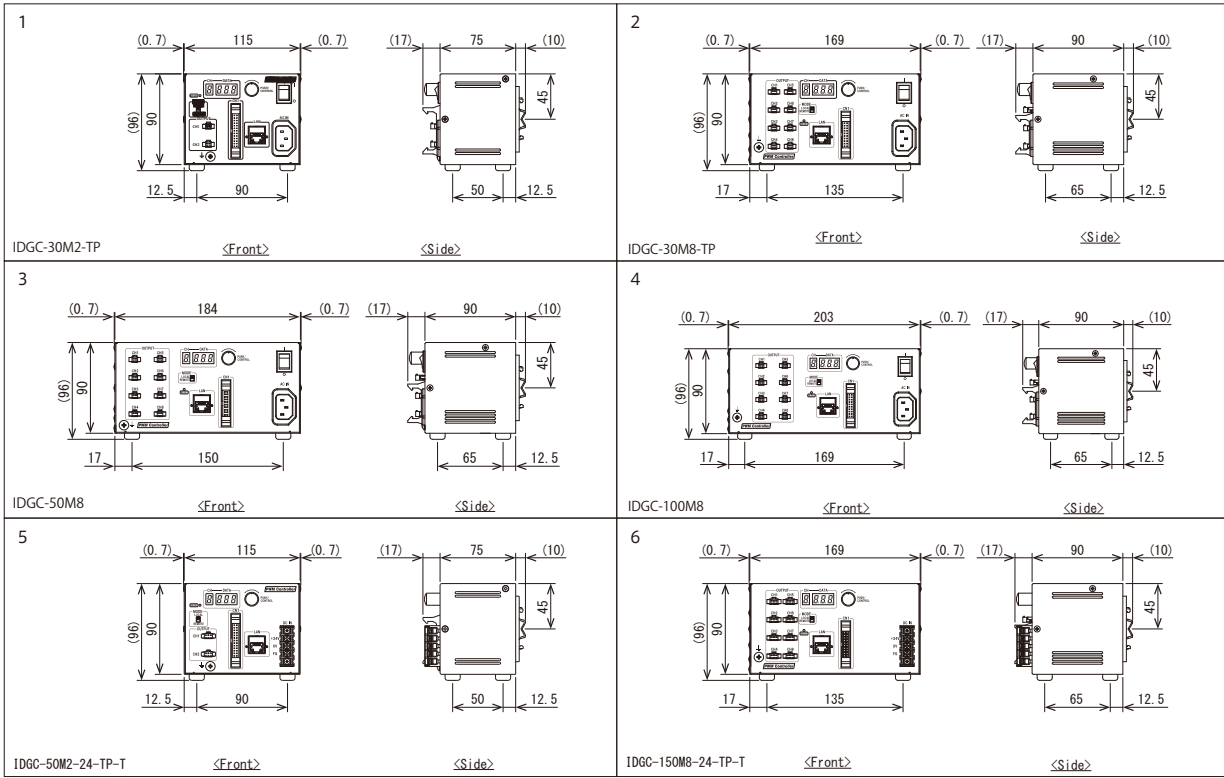
External Communication specifications(LAN)

Communication Protocol	TCP/IP
Compliance Standards	IEEE802.3(10BASE-T), IEEE802.3u(100BASE-TX)
Transmission Speed	10Mbps(10BASE-T), 100Mbps(100BASE-TX)
Number Of Connection Ports	4 ports
Functions	Auto MDI/MDIX, Auto Negotiation DHCP, LLA, Leimac Discovery *

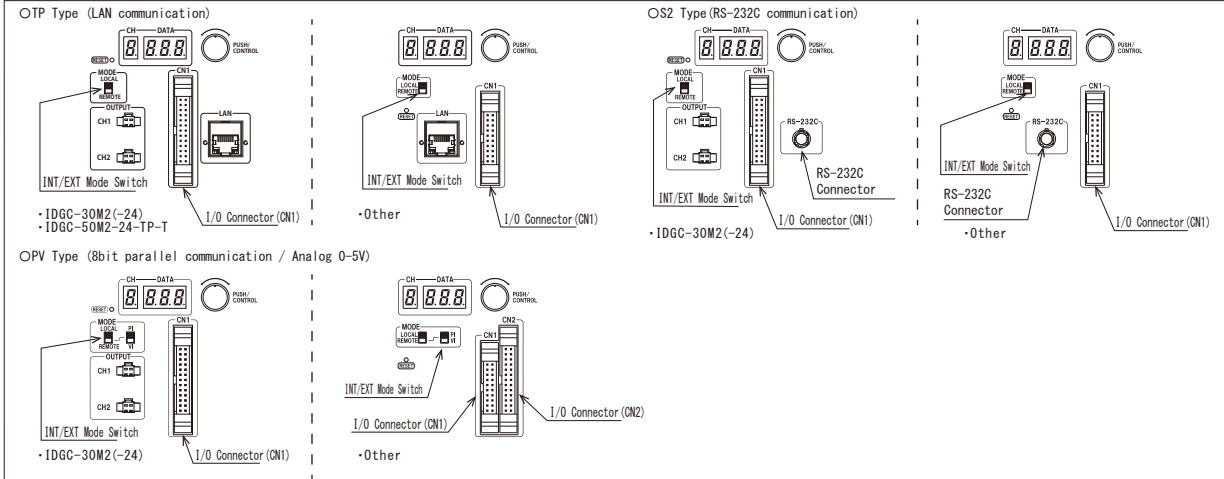
* Ability to discover and access Leimac products on the network, as well as modify network settings such as IP addresses.

External Communication specifications(RS-232C)

Communications Protocol	RS-232C
Baud Rate	19,200bps
Data	8bit
Parity Bit	Even Parity
Stop Bit	1bit



<Front Panel Control Layout>



Line illumination products

Ring illumination products

Bar illumination products

Transmitted/area illumination products

Dome illumination products

Special illumination products

for products

Controller products

for products

- IDBB-LSRF
- IDBC-LSR
- IDBB-LSRH
- IDBB-LSRA
- IDBB-LSRS
- IDBB-LSRC
- IDBB-LSRC
- IDBB-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
- IPQC
- 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 synchronous imaging camera 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
- IJS-40M2-PI/SS
- SAG
- SLUB
- LLUB
- IFIC