

NEW

High-Function DC24V In Build-in Digital Dimming Controller [IDMU Series] -LEIMIX®-

Flexible hardware configuration with expandability of up to 40 channels

Compact and DIN rail-mountable, allowing for space-saving control panel integration

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.



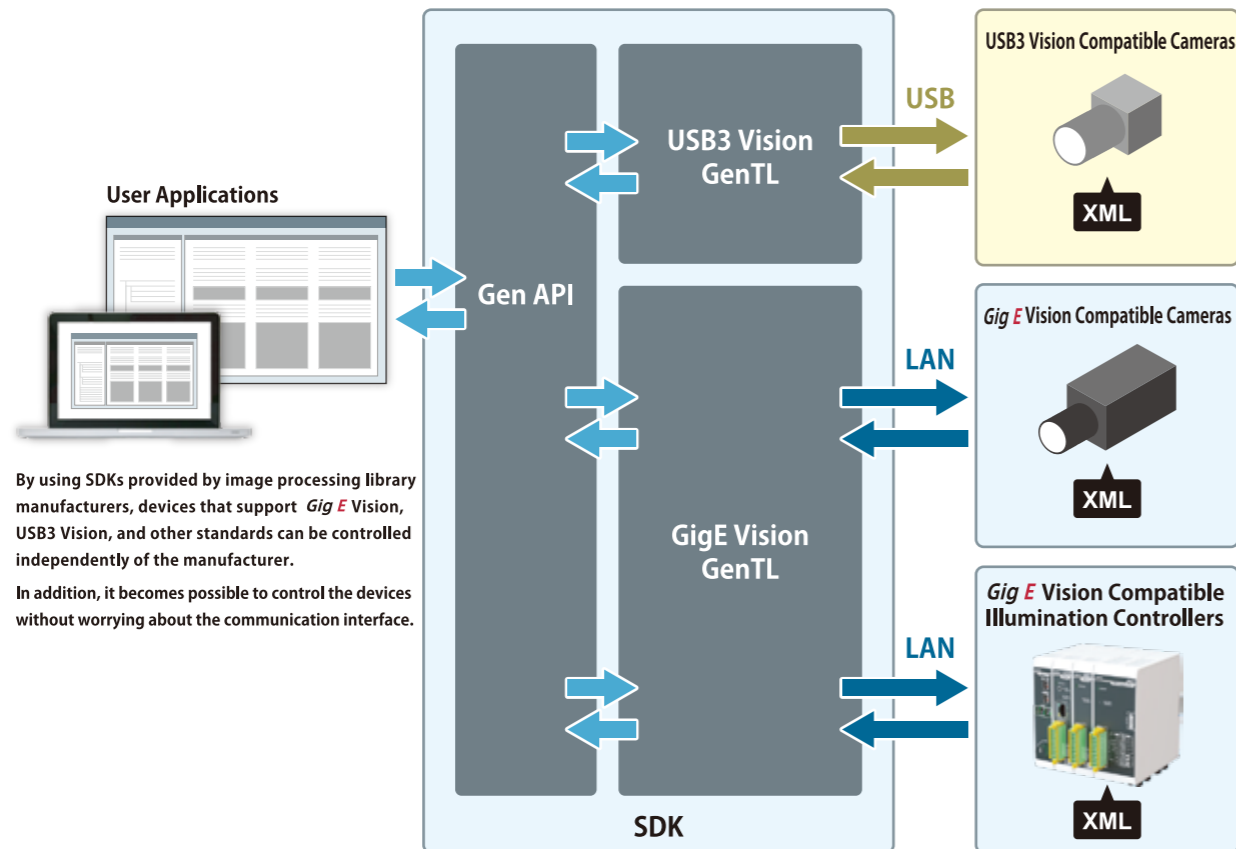
Series Lineup

A total of 8 types, including Base Unit and Edge Unit, available in both 4-ch and 8-ch configurations, with two power output options of 12V and 24V.



The Advantages of GigE Vision

- No need to set up a new network environment, as it can be used with existing Ethernet infrastructure.
- Easily introduced by utilizing GigE Vision's image processing libraries.
- Compatible with GEN-i>CAM, allowing for easy integration with different interfaces such as USB3 Vision and CoaXPress.
- LAN cable connection can be extended up to 100m.



By using SDKs provided by image processing library manufacturers, devices that support GigE Vision, USB3 Vision, and other standards can be controlled independently of the manufacturer.

In addition, it becomes possible to control the devices without worrying about the communication interface.

Up To 40 Channels With Customizable Combinations Of Output Voltage And Dimming Methods.

By combining the Base Unit (4CH/8CH) and the Edge Unit (4CH/8CH), it is possible to control up to 40 channels simultaneously. It also allows for mixed dimming methods and output voltage options.

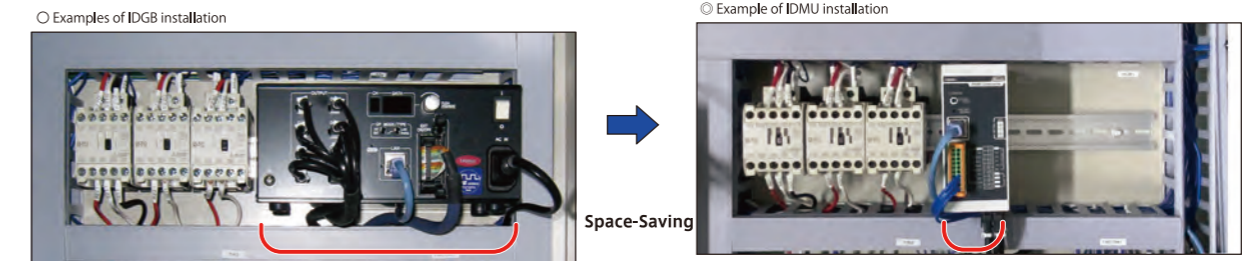
Example Combinations

Optional Unit : Combined Base Unit : 4CH x1	Optional Unit : Uncombined Base Unit : 8CH x1 Edge Unit : 4CH x1	Optional Unit : Combined Base Unit : 8CH x1 Edge Unit : 8CH x1, 4CH x1	Optional Unit : Uncombined Base Unit : 8CH x1 Edge Unit : 8CH x4
Total : 4CH	Total : 12CH	Total : 20CH	Total : 40CH

Easy Installation With Minimal Wiring And Space Requirements.

The compact casing can be easily mounted on a DIN rail, and even with a Max. expansion of up to 40 channels, it remains slim at approximately 250mm in width, significantly slimmer compared to existing controllers.

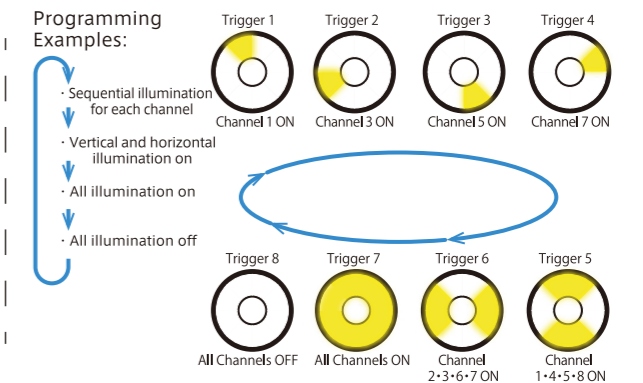
The interconnection between units is easily done through the rear bus connector, allowing for simplified wiring even during expansion or additional installations. Plug-type EXT I/O connectors that allow for easy and detachable wiring, improving workability.



Standard Equipped With Programming Functions

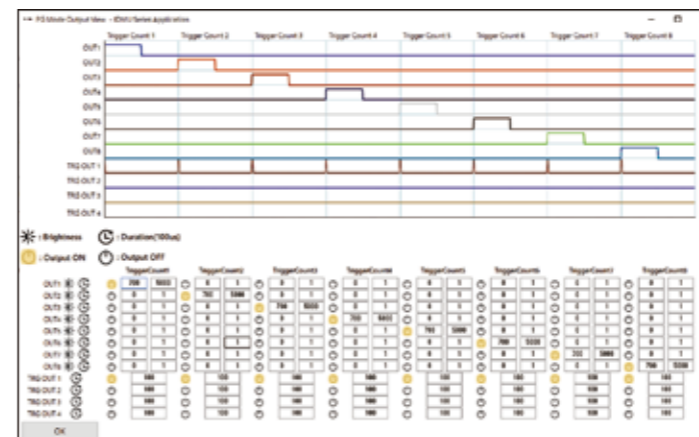
In programming mode

- Up to 4 operation patterns can be registered, and each operation pattern can have up to 8 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 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.



Open-resource Sample Applications For Reference Is Provided

- OPG Mode Output View interface



Other Functions

- Trigger OUT function
- Control ON/OFF illumination via LAN communication
- DHCP/LLA support (automatic IP address acquisition)

- IDBB-LSRF
- IDBB-LSR
- IDBB-LSRH
- IDBB-LSRA
- IDBB-LSRS
- IDBB-LSRC
- IDBB-LSRC
- IDBB-LSRC
- IDBB-RE
- IDBB-RE
- IDBA-RK
- IDBA-RK
- IDQH-RE
- IMAR-D -8ch
- IDR-LA-8ch
- IDRA-T-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-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
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- Infrared
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- IDDA-KH-RGB
- RGB Full-color
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- ISS
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- 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

Series Lineup

Model	Type	Input Voltage	Output Voltage	Channel Number	Number of Trigger Input Channels	Capacity	Exterior Diagram	
IDMU-P4B-12	Base Unit	DC24V	DC12V	4CH	4	72W (36W/2CH) ※1	1	
IDMU-P8B-12				8CH	8	144W (36W/2CH) ※1	2	
IDMU-P4E-12	Edge Unit			4CH	4	72W (36W/2CH) ※1	3	
IDMU-P8E-12				8CH	8	144W (36W/2CH) ※1	4	
IDMU-P4B-24	Base Unit		DC24V	DC24V	4CH	4	144W (72W/2CH) ※1	1 ※2
IDMU-P8B-24					8CH	8	288W (72W/2CH) ※1	2 ※2
IDMU-P4E-24	Edge Unit				4CH	4	144W (72W/2CH) ※1	3 ※2
IDMU-P8E-24					8CH	8	288W (72W/2CH) ※1	4 ※2

※1 It is the total capacity of the paired channels. The paired channels are as follows: [1-2, 3-4, 5-6, 7-8].
 ※2 The appearance diagram showcases the 12V output option. For the 24V output option, the illumination output connector will be changed from SMP-02V-BC to SMP-03V-BC.

Common Specifications (Base Unit / Edge Unit)

Control Method	Approx. 125kHz PWM control, 1,000 levels
Input Voltage	DC24V
Number of Trigger Input Channels	4 (for 4CH model) / 8 (for 8CH model) (compatible with NPN / PNP)
Trigger Input Modes	Level High / Level Low / Rising Edge / Falling Edge
Emission Duration (Strobe)	0.1 - 999.9ms (100µsec step)
Illumination Delay Setting Range	0 - 9,000µsec (1µsec step)
Number of Trigger Output Channels	4 (compatible with NPN / PNP)
Functions	Trigger output programming mode

Optional: Manual Control Unit

IDMU-OP-M

This is an optional unit that connects to the Base Unit and allows manual control. It can only be connected to the left side of the Base Unit.



Exterior Diagram : ⑤

Input power supply	Power is supplied from the Base Unit through the bus connector.
Output value adjustable range	Compliant with the connected unit
Maximum control unit count	Up to 5 units
Maximum control channel count	Up to 8 channels per unit

Optional: I/O Control Unit

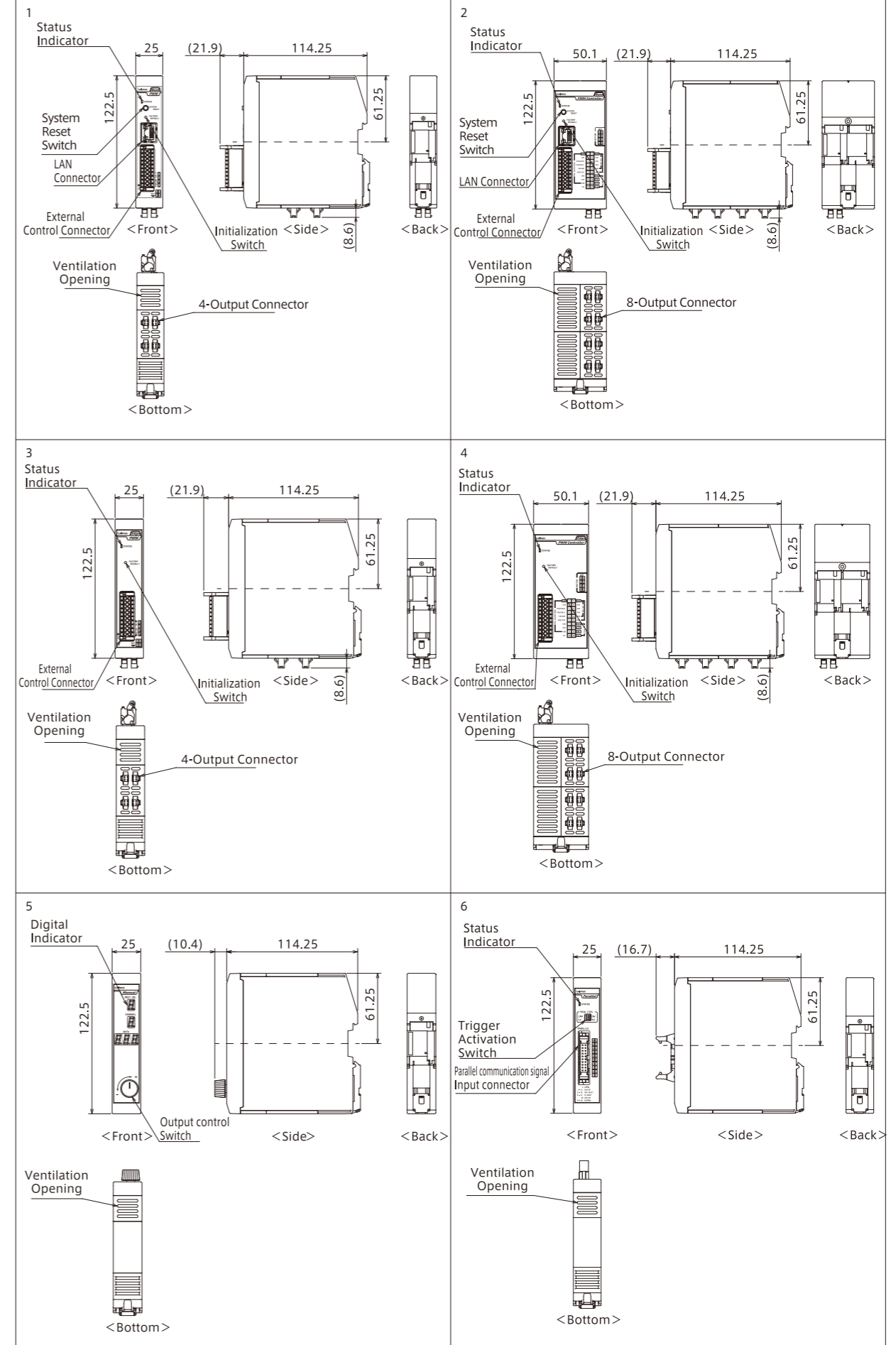
IDMU-OP-PI

This is an optional unit designed to be connected to the base unit and controlled via parallel communication. It can only be connected to the left side of the base unit.



Exterior Diagram : ⑥

Input power supply	Power is supplied from the Base Unit through the bus connector.
Output value adjustable range	Compliant with the connected unit
Parallel signal voltage range	DC +5 ~ +24V
Maximum control unit count	Up to 5 units
Maximum control channel count	Up to 8 channels per unit



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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
IQC
IFHA
IDDB-KH-IDDA-KH
IDUB
IDD
IDD-CB
IQD-IQDH
IQDA-CB
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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
IQC
IFHA
IDDB-KH-IDDA-KH
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