GEN<i>CAM corresponding Power Supply
IPPA_G・IRPA_G series

The first debut in the Japan Market!
As in cameras, smooth introduction and easy operation with the GigE Vision Interface.

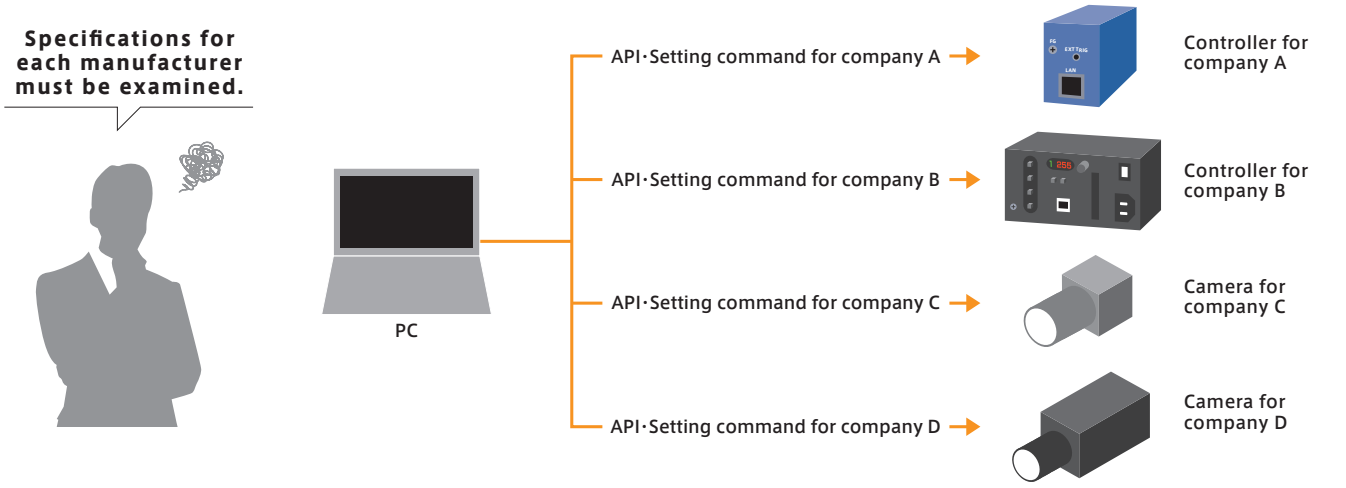
CE

GiGE VISION

Advantage of GenICam

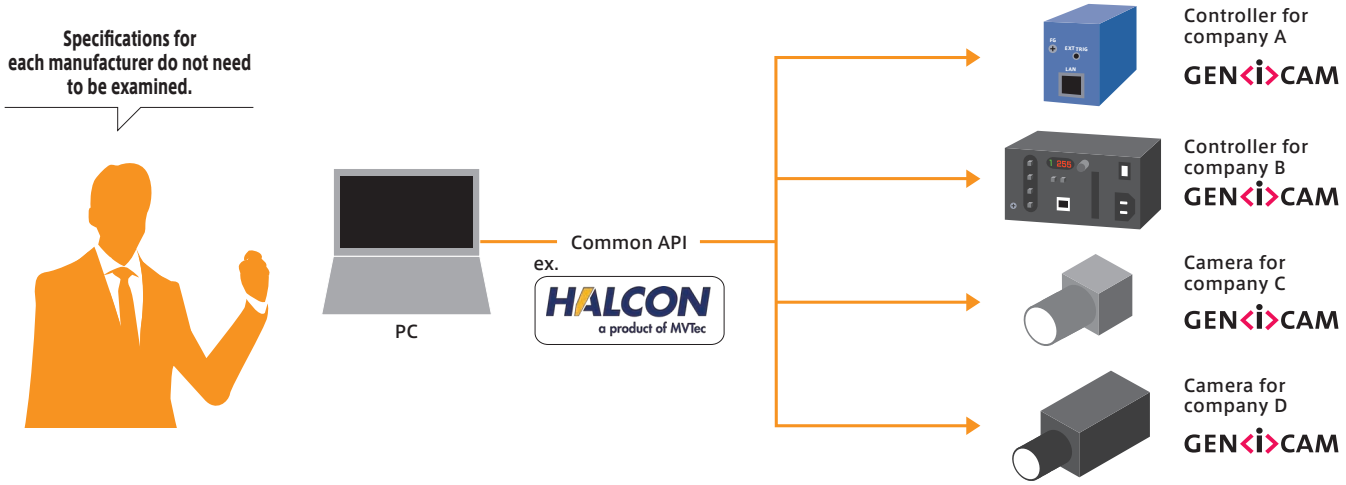
・Lighting equipment can be controlled from the application supported by GigE Vision / GenICam via the same commands (supporting GVCP commands).
・Even if the IP address is not known, it can be searched.
・Same as cameras, it is easy to specify the controllor location even if several units are connected.
・It is possible to recover even if the network has a problem (when using Heart beat Time out).

Not supporting with GenICam



GenICam is an abbreviation for Generic Interface for Cameras.

Supporting with GenICam



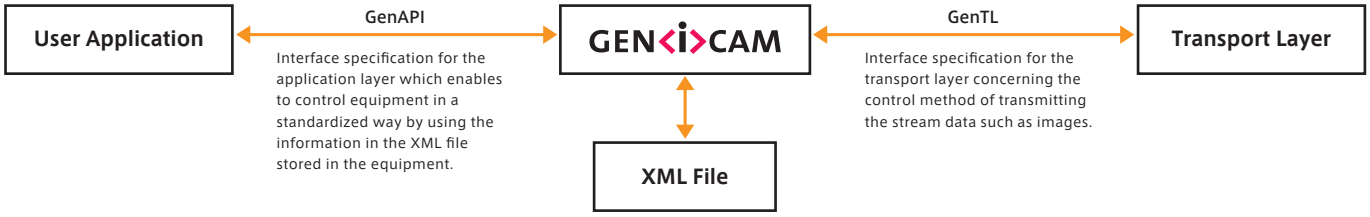
What is GenICam?

GEN<i>CAM is an abbreviation for Generic Interface for Cameras.

It is a general purpose software interface standard defined by the EMVA (European Machine Vision Association) which makes it possible to control cameras for image capturing or controls with different interfaces (IEEE 1394, Camera Link, GigE Vision, etc.) by using the common API.
The first edition was formulated in 2006, and the revision scheduled in 2018 standardizes the interface of the lighting controllers as machine vision peripheral equipment.

Mechanism of GenICam

As the functions of the corresponding device are provided in an XML file, the user can simply operate the device by just checking the functions with the Feature Property without examining the detailed specifications.

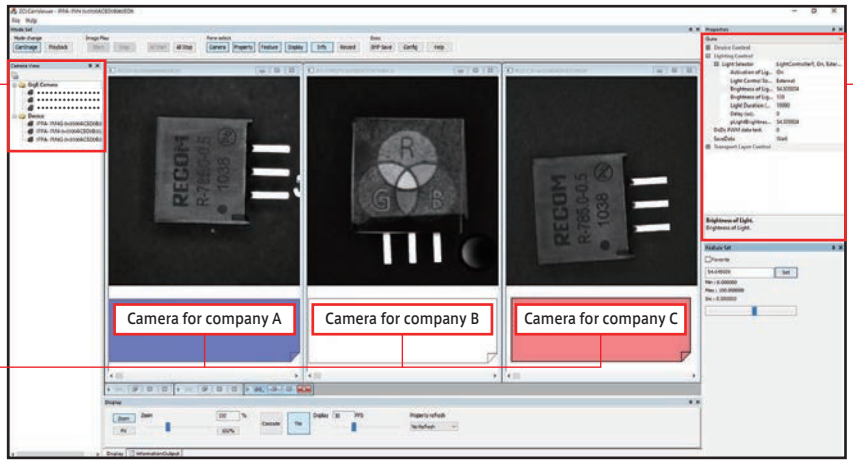


Lighting can be set from applications that conform to the GenICam standard, even without a dedicated application.
It is possible to simply set up the lighting in the same way as setting the camera.

An example in a compatible application

In addition to the corresponding camera (GigE Camera) connected, corresponding power supply is displayed on [Device].

Three models of connected cameras (GigE Camera) are all from different manufacturers, but similarly displayed on the same application by GenICam.



The setting parameters for the corresponding power supply selected (Device) are displayed.

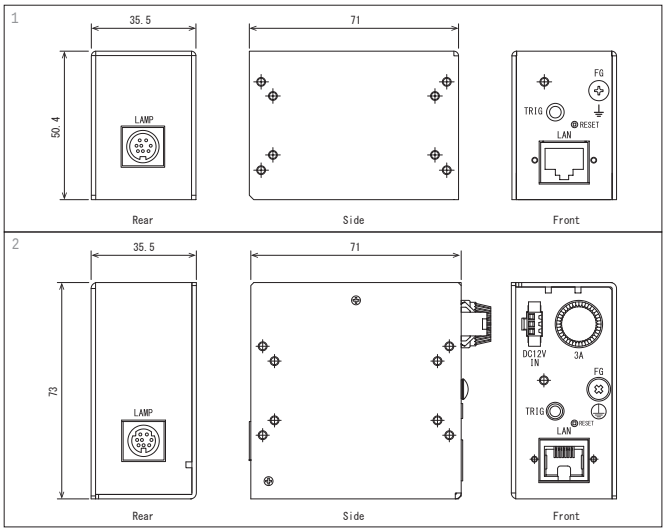
In the lighting control setting, the followings can be set also with the corresponding application:

- Output control setting (internal / external)
- Brightness setting (256 gradation display)
- Brightness setting (Percentage display)
- Lighting time setting
- Delay setting

Power supply specification

Model	IPPA-7M4G	IRPA-30M4G
Drive System	Constant voltage	
Output Control Method	PWM approx. 80kHz (256 levels)	
Channel numbers	4ch	
Supported Lights	30W or less in total for all channels (The output voltage decreases when lighting of total 7.8 W or more by 4 channels is connected)	30W or less in total for all channels (Up to 15 W per CH)
Input power source	Input Voltage DC48V Input Current 320mA (MAX) According to PoE compliant standard IEEE 802.3af	Input Voltage DC12V Input Current 3A (MAX)
Output Voltage	12V	
Trigger response speed	Approx. 1 µs ※1	
Ambient temperature	0~+40℃	
Ambient humidity	20~70%RH (No condensation)	
Environmental regulation	Conforms to RoHS directive.	
Weight	Less than 140g	Less than 150g
Drawing	1	2

※1 In the external trigger mode, an error within 10 µs occurs in the delay time.



Dedicated cable(Accessories)