Power up Default Setting in Camera EEPROM

EEPROM setting

GP series camera contains a EEPROM for internal use. With the limited space, however, it can save a few power up defaults in case XML file or Coyote application may not be used for the default setting.

Here are commands for writing into the EEPROM.

Register address to boot up at power up default:

	ADDRESS	DATA
Factory Default	57 A0 05	00 00 00 00
User 1 Configuration	57 A0 05	00 00 00 01
User 2 Configuration	57 A0 05	00 00 00 02

To save the parameters into I2C-EEPROM:

User 1	57 FF FE	00 00 00 01
User 2	57 FF FE	00 00 00 02

Typical factory setting is "User 1 configuration" default for next power up. Therefore, at factory, the original factory default is set at mode of "User 1"

In other words, when customer receives a camera, it has factory default parameter installed and boot up with it first. Then if the customer needs to change some of the settings, they can type "57 FF FE 00 00 00 01" to save the new power up default.

If a customer made two settings, then second one can be saved as "57 FF FE 00 00 00 02". For next power up, they can select user 1 or user 2 by selecting boot up data. If they choose user 2, then boot up should be "57 A0 05 00 00 00 02".

In case the original factory default must be recalled, enter "57 FF FF 00 00 00 00".

Parameters can be saved in EEPROM:

Since space of the EEPROM is limited, only following parameters can be saved.

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Mode setting "57 00 23 00 00 00 XX"

setting	"57 00) 23 00 00 00 XX"
XX:	00	Normal mode, no trigger
	01	Async trigger mode
	02	Pulse width control mode
	03	Back-to-back strobe mode
	04	ITS mode (multiple frame per trig-

XX: 10 Partial scan normal mode
11 Partial scan Async trigger mode
12 Partial scan pulse width control
14 Partial scan ITS mode

Exposure "57 00 24 00 00 00 YY" YY: Exposure data 00 to FF

Gain setting "57 00 10 00 00 00 ZZ"

ZZ: Gain value from 00 to FF

Other parameters set at power up:

Besides customer-set power-up default, other parameters are also preset and stored in EEPROM. They are;

Factory default gain: 57 A0 00 00 00 00 50 Factory default black level: 57 A0 02 00 00 00 48 Factory default pixel depth: 57 A0 03 00 00 00 02 12-bit 00 01 10-bit 02 8-bit Linear 8-bit Gamma (0.45) 03 12 Test pattern

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These underlined values are rewritable for customer's default.

16-bit (MSB 12-bit)