

# Constant Current Controller

## 2ACC Series

- ◆ Easy to operate, each channel can be controlled independently with high precision.
- ◆ Digital display, button control, easy to understand.
- ◆ Can communicate with PC by RS232.
- ◆ With trigger, faster respond speed, high reliability.
- ◆ Power off saving function.
- ◆ Have a 5V 500mA output to supply to other device.



### → Control panel specification <LTS-2ACC700-4>

No.	Parameter	Specification
1	Button	S is channel selection button, +/- is for the each channel luminance controlling, and on/off output button
2	Trigger interface	Connect external trigger signal to do the frequency strobe working, high level trigger
3	Light interface	4 way output, each can be controlled independently
4	AC input interface	Input AC100-240V 50/60 Hz
5	4 digital tube	First from left display the channel, other 3 digital tube display the luminance grade
6	DC 5V output interface	Output 5V 500mA voltage, can power supply to other device. This interface strictly prohibit reverse connected
7	RS232 serial port	Connect the controller and PC by RS232 serial port
8	Power switch	On/ off controller power

Connection step:

Step 1: connected the light and controller (Reference to the picture on the right).

Step 2: if need the external trigger control, please connect the external trigger signal with the controller trigger interface.

Step 3: connect power (AC100-240V 50/60 Hz), press the red switch "-", indicator light up, "o" uplifted, power on.

Step 4: If need to control the luminance by PC, please connect the PC with controller by RS232 data line in the power off status, then control by our demo program or the program you write yourself. Can set-up the each channel parameter manual when operated by serial port mode. That's to say, the upper computer and controller all can set-up the parameter, no need mode swapping.

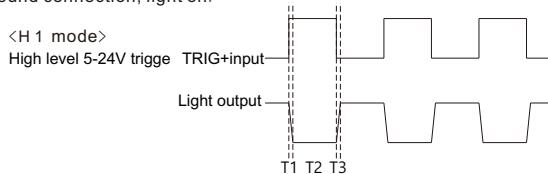
### → Sequence chart

Normal on mode (H1 mode):

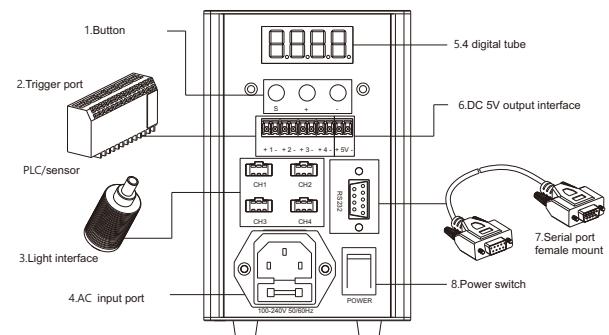
When connect external trigger signal, trigger "+" input high level 5-24V "-" ground connection, light off.

Normal closed mode (H0 mode):

When connect external trigger signal, trigger "+" input high level 5-24V "-" ground connection, light on.



Specification: T1 is trigger delay time, T1≤80us T3≤80us.

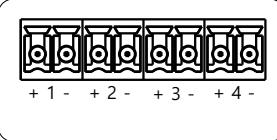


### → Mode setup

Mode	Output interface
Normal on lighting mode	Control by S button, when first of digital tube display 1/2/3/4, luminance of output interface connected light can be adjusted
H1 mode	Control by S button, when first of digital tube display H, third of digital tube display 1, output interface open
H0 mode	Control by S button, when first of digital tube display H, third of digital tube display 0, output interface close

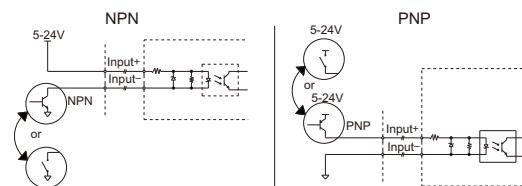
### → Trigger port setup <LTS-2ACC700-4>

This series controller is high level trigger. Total 4 group trigger ports, each has +, - mark. To input high level to +, - port can achieve the trigger function.



Trigger introduction: when output initial state is open mode, input high level 5-24V to trigger port, light close. when output initial state is off mode, input high level 5-24V to trigger port, light on.

### → Wire connection method of the external trigger signal



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3LINH	Line scan illumination
3LINL	
3LIN	
2LINS	
2LIN	
2COXL	
2LINM	
SDL	
STL	Structured light
RN	Ring illumination
RNH	
SRN	
HPR	
FPR	
DML	
LFR	
3DM	
2DM	
LFX	
FPQ	
RIH	
DL	
3BRH	Bar illumination
2BR	
2BRS	
2BRM	
3COH	
3CON	
COKR	
3COX	
COPA	
HSL	
2SL	Coaxial illumination
SL	
RNMU	
AOI	
2FTB/	Multi-angle illumination
FTC	
2FT/	
3FT	
2PFT/	
3PFT	
LIP	Back illumination
IP	
IR	
UV	
Customized	
PS	
PD	
2DRC	
3STU	
APC	
DPC	
2APC	
DPA	
2ACC	
2DPC	
Area scan	
Line scan	
Lenses	

# Constant Current Controller

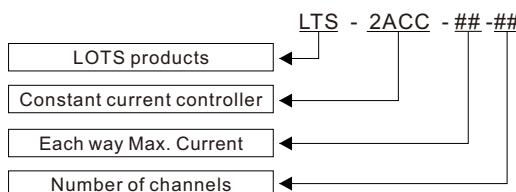
## 2ACC Series

3LINH	
3LNL	
3LIN	
2LINS	
2LIN	
2COXL	
2LINM	
SDL	Line scan illumination
STL	Structured light
RN	
RNH	
SRN	Ring illumination
HPR	
FPR	
DML	
LFR	
3DM	
2DM	
LFX	
FPQ	
RIH	
DL	Shadowless illumination
3BRH	
2BR	
2BRS	
2BRM	
3COH	
3CON	
COXR	
3COX	
COPA	
HSL	
2SL	
SL	Coaxial illumination
RNMU	Multicangle illumination
AOI	
2FTB/2FTR	
FTC	
2FT/3FT	
2PFT/3PFT	
LIP	Back illumination
IP	Waterproof illumination
IR	Infrared light
UV	Ultraviolet light
Customized	Customized light
PS	
PD	
2DRC	
3STU	
APC	
DPC	
2APC	
DPA	
2ACC	
2DPC	
Area scan	
Line scan	Lenses

### → Parameters

Model	LTS-2ACC350/700/1000-4	LTS-2ACC350/700/1500-2	LTS-2ACC2500-2	Remark
Number of channels	4 way	2 way	2 way	
Trigger voltage	high level 5-24V	low level 0-1.5V	low level 0-1.5V	
Input voltage	AC 100-240V			
Input frequency range	50/60Hz			
Luminance control method	manual adjust by button, PC remote adjustio			
Luminance control mode	Constant-current			
Luminance control level	256 level			
Storage function	set-up parameter of luminance will be kept while power off			
Addition output voltage	5V			this voltage strictly prohibit reverse connected
Baud rate	9600bps			
Communication mode	RS232 serial port communication			

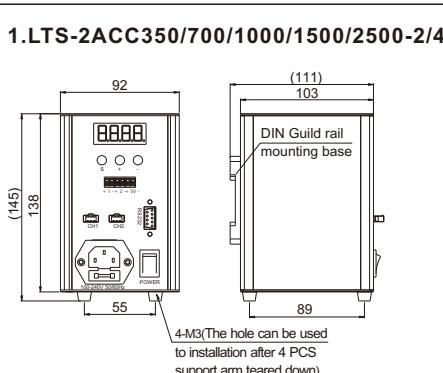
### → Coding rule



### → Controller model

Product	Model	One way output adjustable current	Total output power	One way Max. output power	Number of channels	Dimension	External trigger voltage	Remark
Constant current controller	LTS-2ACC350-2	0-350mA	2W	1W	2	1	0-1.5V	Have communication, trigger, luminance level display function
	LTS-2ACC700-2	0-700mA	4W	2W	2	1	5-24V	
	LTS-2ACC350-4	0-350mA	4W	1W	4	1	5-24V	
	LTS-2ACC700-4	0-700mA	8W	2W	4	1	5-24V	
	LTS-2ACC1000-4	0-1000mA	12W	3W	4	1	0-1.5V	
	LTS-2ACC1500-2	0-1500mA	10W	5W	2	1	0-1.5V	
	LTS-2ACC2500-2	0-2500mA	16W	8W	2	1	0-1.5V	

### → Boundary dimension(mm)



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