

Digital Controller New

2DPC 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 12V 500mA output to supply to other device.



→ Communication parameter

- >>> Communication protocol RS232
- >>> Baud rate: 9600bps
- >>> Stop bit: 1bit
- >>> Odd-even check: NO

→ Data format

word size	1 word size	1 word size	1 word size	3 word size	2 word size
function	tagged word	command word	channel word	data word	xor check word

→ Control panel specification <LTS-2DPC2460-4S>

No.	Parameter	Specification
1	4 digital tube	First from left display the channel, other 3 digital tube display the luminance level
2	Trigger interface	connect external trigger signal to do the frequency strobe working, trigger pulse width can be set up
3	Light interface	four output of light, can be controlled independently
4	AC input interface	input AC100-240V 50/60 Hz
5	Button	S is channel selection button, +/- is for the each channel luminance controlling, and on/off output button
6	DC 12V output interface	output 12V 500mA voltage, can power supply to camera or 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.

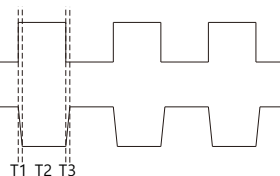
Normal closed mode (H0 mode):

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

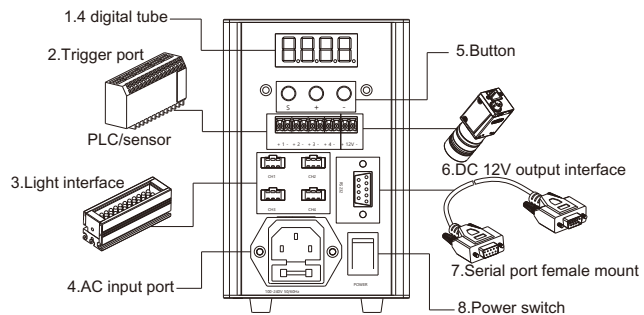
<H1 mode>

High level 5-24V trigger TRIG+input

Light output



Specification: T1 is trigger delay time, $T1 \leq 80\mu s$ $T3 \leq 80\mu s$.

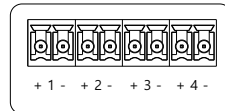


→ Mode setup

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

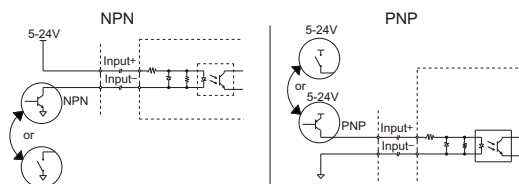
→ Trigger port setup <LTS-2DPC2460-4S>

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 under the normal on lighting mode and H1 mode, input high level 5-24V to trigger port, light close. When under H0 mode, input high level 5-24V to trigger port, light on.

→ Wire connection method of the external trigger signal



<http://www.lotsmv.com>

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

Digital Controller

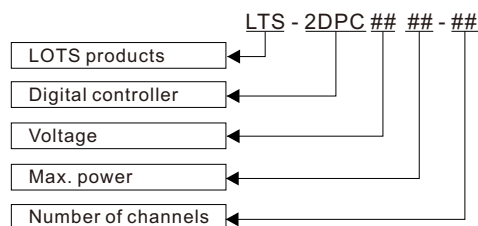
2DPC Series

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

→ Parameters

Model	LTS-2DPC2460 -2S/4S	LTS-2DPC2475 -8S	LTS-2DPC24120 -8S	LTS-2DPC24200 -4S	LTS-2DPC24200 -8S	LTS-2DPC24400 -2S	LTS-2DPC48600 -2S
Number of channels	2、4 way	8 way	8 way	4 way	8 way	2 way	2 way
Addition output voltage	12V 500mA	-	-	12V 500mA	-	12V 500mA	12V 500mA
Baud rate	9600bps	19200bps	19200bps	9600bps	19200bps	9600bps	9600bps
Input voltage	AC 100-240V					AC 200-240V	AC 170-264V
Output voltage range	0-24V						0-48V
Input frequency range	50/60Hz						
Luminance control method	manual adjust by button, PC remote adjustio						
Luminance control mode	PWM adjusting,change PWM duty radio to adjust voltage						
Luminance control Level	256 level						
Storage function	storage function set-up parameter of luminance will be kept while power off						
External trigger voltage	5-24V						
Communication method	RS232						
Normal on/Normal closed mode switch	change H mode by CH button,H1 mode is normal on, H0 mode is normal closed adjusting						

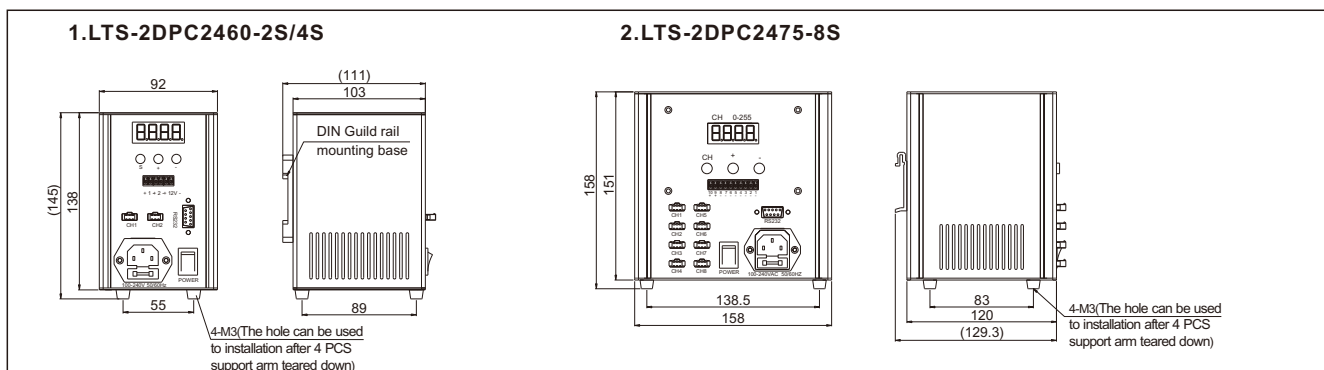
→ Coding rule



→ Controller model

Product	Model	Output voltage range	Total output power	One way Max. output power	Number of channels	Dimen-sion	Extenal trigger voltage	Remark
Digital controller	LTS-2DPC2460-2S	0-24V	60W	60W	2	2	1	Have communication, trigger, and power supply to camera function
	LTS-2DPC2460-4S	0-24V	60W	60W	4	4	1	
	LTS-2DPC2475-4S	0-24V	75W	75W	4	4	2	
	LTS-2DPC2475-8S	0-24V	75W	75W	8	8	2	
	LTS-2DPC24120-8S	0-24V	120W	120W	8	8	3	
	LTS-2DPC24400-2S	0-24V	400W	400W	2	2	4	
	LTS-2DPC48600-2S	0-48V	600W	600W	2	2	5	

→ Boundary dimension(mm)

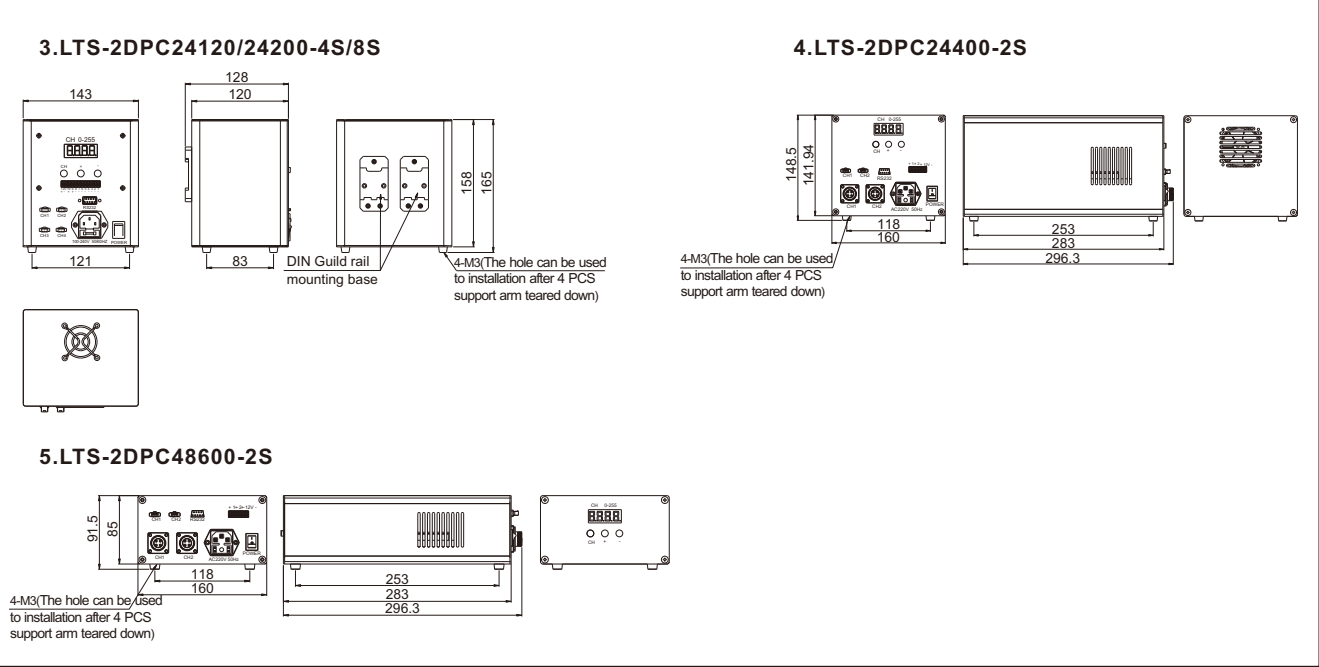


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