

# Overdrive Digital Controller

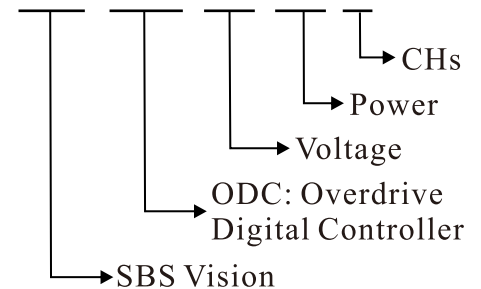


## Products Features

- ▶ Overdrive voltage can be 48V, the brightness of the LED Lights can be increased by more than 3 times.
- ▶ With outsourcing trigger way, emitting time can be adjusted within 10-999us.
- ▶ Adjust the intensity by RS232, DIN or bottom mounting hole installation.
- ▶ The trigger delay time of the lighting and the output of the camera can be adjusted within 0-999us.

## Model Description

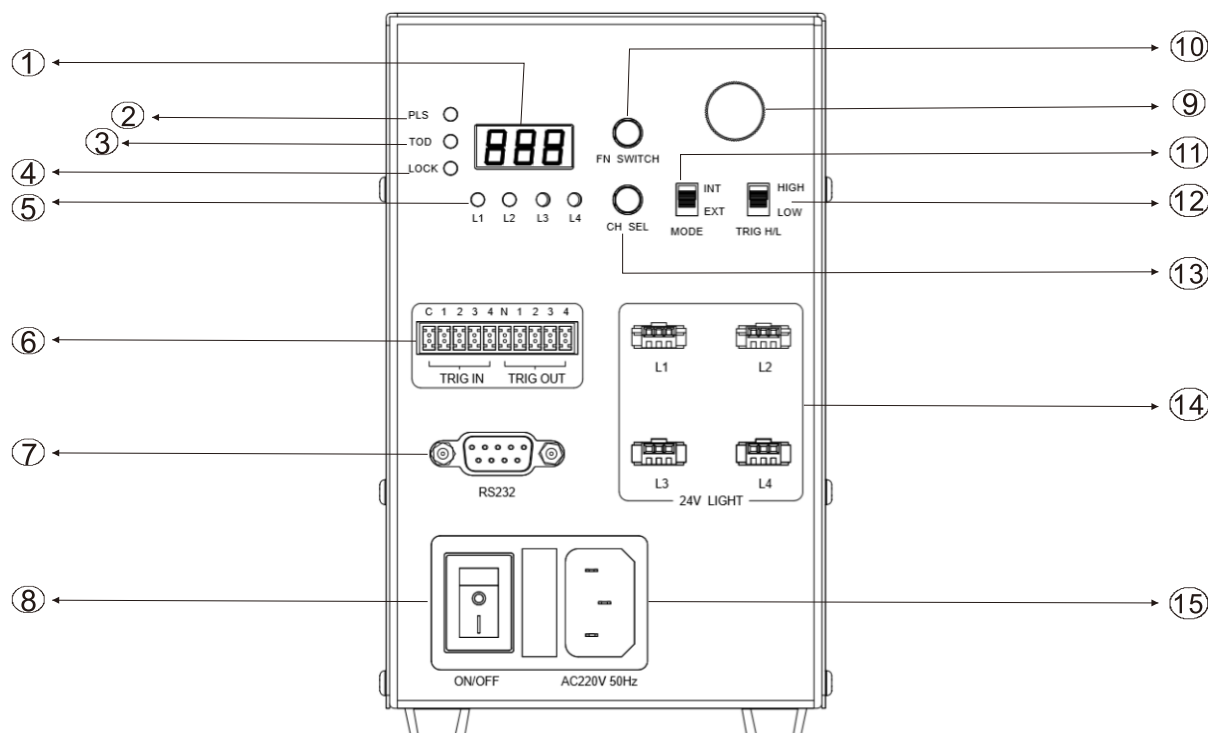
SBS-ODC-XX-XX-X



## Parameter

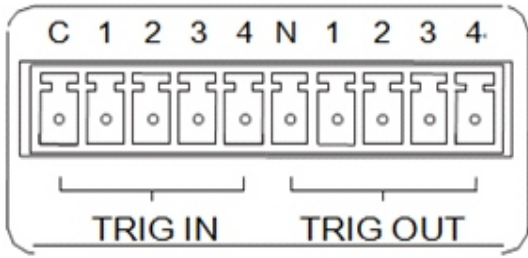
Item	Model	SBS-ODC48-120-4
Channels		4
Error inspection showing		digital bar showing with numbers
Over current protection		it works when the output current is more than 107%, and it shows OCP, restart the controller to recover
Input voltage		AC100-240V
Trigger function		bidirectional input, regardless of polarity
Trigger input voltage		DC5-24V
Total output power		120W (total power of 4 channels)
Peak output voltage		DC48V
Peak output current		<20A (single channel)
Trigger delay		<1μS
Strobe time		it can be set into 0-999μS
Trigger way		outsourcing trigger way and software trigger way
Usage environment		temperature: -10-50°C humidity: 20-85% RH (not frozen)
Storage environment		temperature: -20-60°C humidity: 20-85% RH (not frozen)
Cooling way		Natural cooling

## Panel



No.	Keys	Function
①	Digital screen	The selected data will be show in the screen (The selected data can be read in the screen)
②	Lighting flash time indicator	The lighting flash time can be set from 0 to 999 level (Press the "FN Switch" key until the lighting flash time indicator light is on)
③	Trigger delay time indicator	The lighting flash time can be set from 0 to 999 level (Press the "FN Switch" key until the lighting trigger time indicator light is on)
④	Lock data indicator	The set data can be locked after setting finished (Press the "FN Switch" key until the lock data indicator light is on)
⑤	Channels from 1 to 4	4 lights can be connected
⑥	Out signal input connector	For connection outside signal
⑦	RS232 connector	Connect with PC
⑧	Power switch key	Power turn on or off
⑨	Data adjust key	Adjust light flash time, trigger delay time, or light on time (turn right or left to adjust the selected data to set)
⑩	Function switch key	Select the light flash time, trigger delay time or light on time (Press "FN Swich" to select which time you want to set, when the "light flash time indicator"and "trigger delay time indicator" is on together, then press it longer to switch to "light on time" set)
⑪	Out signal trigger & internal trigger switch key	Select the trigger way by the signal source (4 sequences sets internal into controller)
⑫	High & low voltage trigger switch key	Select the trigger way by the input voltage (depend on the outside signal input voltage, 0-5V is low voltage trigger, 5V-24V is high voltage trigger)
⑬	Channels switch key	Select Channel from 1 to 4 (Select the Channel to adjust the related intensity)
⑭	Lighting connector	4 Channels
⑮	Power input connector	AC100-240V/50~60Hz

## Connector

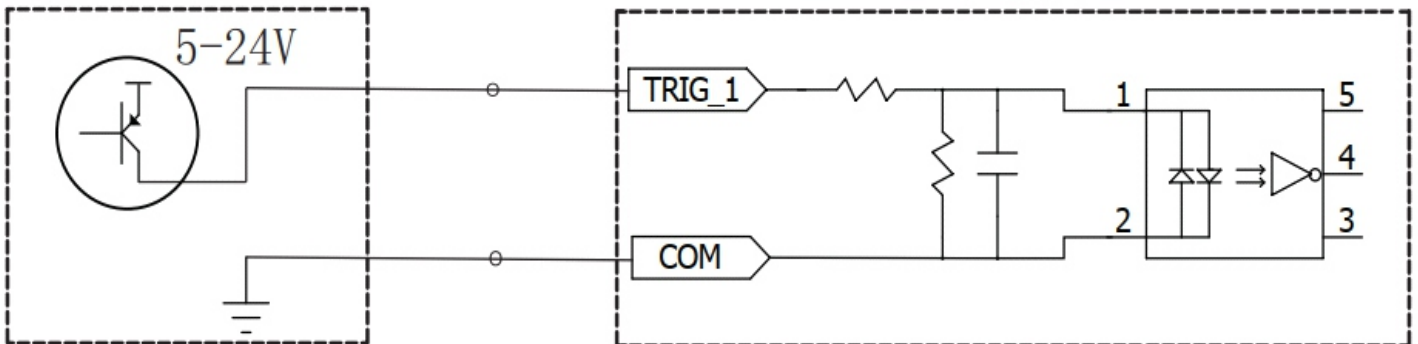


Trigger input is non-polar and support for bidirectional input. Trigger output has polarity, N represents the output negative pole. The voltage of the trigger output is 12V, and it can directly trigger the camera to take pictures.

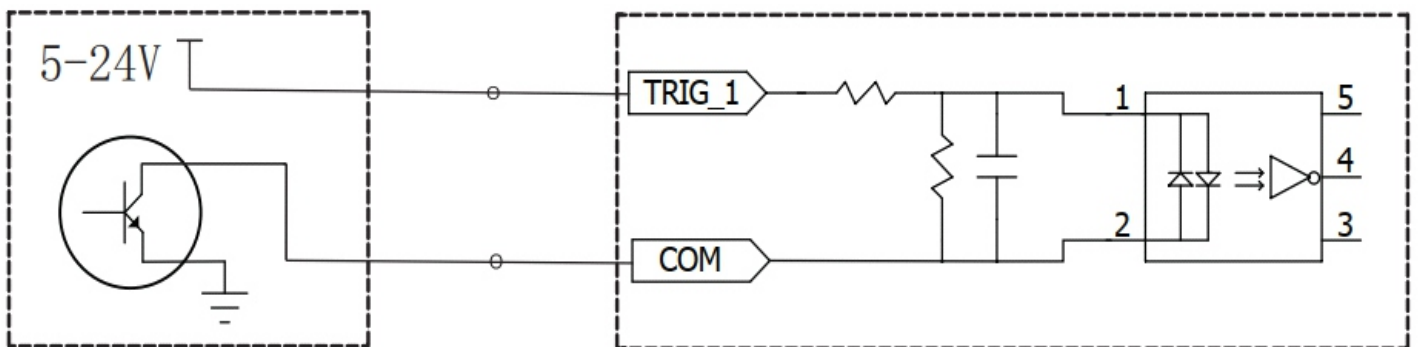
TRIG IN	Wiring definition	TRIG OUT	Wiring definition
C	common port of trigger input	N	common port of trigger output (-)
1	Channel 1 of trigger input	1	Channel 1 of trigger output
2	Channel 2 of trigger input	2	Channel 2 of trigger output
3	Channel 3 of trigger input	3	Channel 3 of trigger output
4	Channel 4 of trigger input	4	Channel 4 of trigger output

## Trigger Wiring

PNP

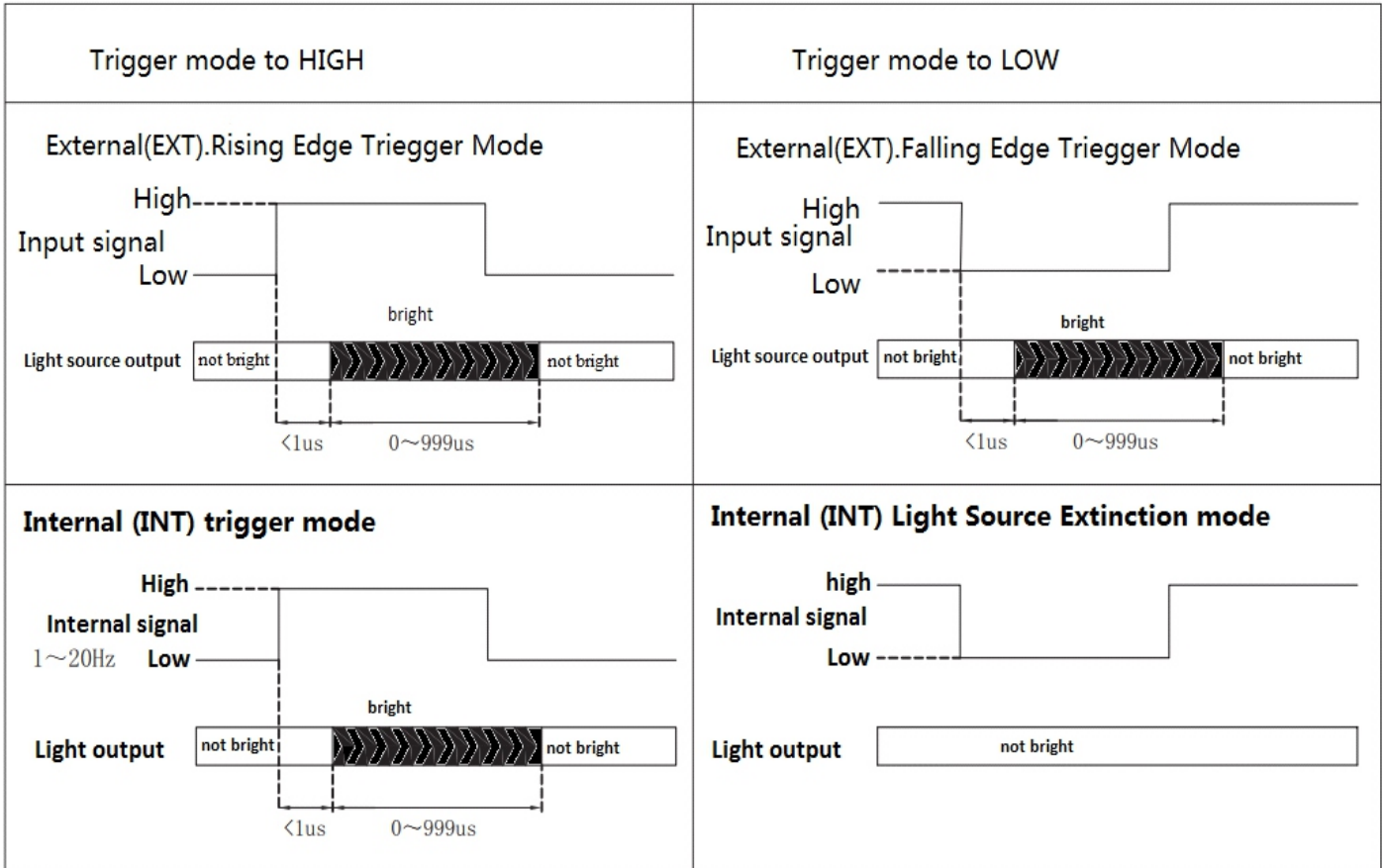


NPN



\* Switches with strong mechanical characteristics such as relays cannot be used as external actuation of the controller.

## Control mode selection



**Note:**the camera should be set falling edge trigger mode when the controller trigger output function to trigger the camera to take the picture synchronously

## Dimensions(mm)

