Ydea-C5 System

Automatic Brightness Adjustment_Light Sensor User Manual

Automatic Brightness Adjustment_Light Sensor includes 2 modes:

Timing adjustment and light sensation adjustment;

- **1** .Timing adjustment :
 - Open YdeaFast (V2.0.5) control software, and switch to C5C /C5M interface. Click "function", then click " Automatic Brightness adjustment_Light Sensor " enter configuration interface;
 - 2."Adding, delete" button will appear when click the blank space at the bottom of "screen serial number";

(The serial port of the controller connected to computer can be added or deleted)

Yde	aFast				×
G) Timing (adjustment 🤇) Light adjust	ment 🔲 H	ligh gray
	Led				
	Led I	Contorl Se	rial	Note	
		Ad	d –		
		Del	ete		
		·			
	Time(h):	PM 17:18	3 To PM 1	7:11	
	Light:	1	Add(A	A) Dele	ete(D)
	Index	Start Time	Stop Time	Light	
l					
	Startup	T_adjust	Startup L_a	djust Co	mplete(S
	(Pi	cture 1 So	ftware Mai	n interfa	ice)

Remark : COM15 is the serial port of the controller connected to the

current computer. It can be added when clicked;

3. The configuration of the timing adjustment can be shown as below,

which includes: time synchronization, beginning and ending

time, brightness value, adding and delete;

dea	aFast						2
0) Timing (adjustment 🤇) Light	adjustr	nent 🛛	High	gray
_	Led —						
	Led I	Contorl Se	rial		Note	,	
	1	COM15					
ļ	Led1						
	Time(h):	PM 17:18	🚔 To	PM 17	:1 { 🚔		
	Light:	1		Add(<u>A</u>)	Delete(<u>D</u>)
	Index	Start Time	Stop	Time	Lig	ht	
	1	PM 12:18:	PM 1	3:18:	50)	
	2	PM 14:18:	PM 2	0:18:	10	0	
V	Startup	T_adjust	Star	tup L_ac	ljust	Comple	ete(<u>S</u>

(Picture 2 Timing adjustment interface)

Beginning and ending time: After setting the time synchronization, set

the time of the screen starting;

Brightness value: control brightness value

Adding: after setting beginning & ending time and brightness value,

click to create a controlling strategy in the list below:

Remark: when time setting is overlapping, it should give priority to

the control strategy with lower serial number;

Delete: click the strategy unneeded then click "delete" to clear it.

Remark: When there is no controlling strategy, take the brightness

manually setting as the default brightness value;

2.Method of time setting :

aFast				
Timing	adjustment 🤇) Light adjusti	ment 📃 Hig	h gray
Led I	Contorl Se	rial	Note	
1	COM15			
				_
Time(h):	AM 0:00	M 12 😽 🚽	:17 🚔	
Light:	150	Add(A) Delete	(D)
Index	Start Time	Stop Time	Light	
1	PM 12:18:	PM 13:18:	50	
2	PM 14:18:	PM 23:59:	100	
3	00:00:54	12:17:54	150	

(picture 3 timing setting)

- **1.** When set up time, it can't be set beyond 23:59:59, that is to say, the setting time can't cross the day.
- 2.If time need to set for next day, it requires to increase time bucket: XX XX --- 23.59.59 (the time bucket of current day), 0 : 0 : 0 --- XX XX XX (the time wanted), as shown above.
- 3. Start and use the timing adjustment mode :

- 1.Tick the option of "timing adjustment "and" start timing adjustment "at the menu above.(When tick the " start timing adjustment " the brightness can only be adjusted in the mode of "timing adjustment ");
- **2**.Set the beginning & ending time and brightness value.
- **3.**Click "adding" to create a corresponding controlling strategy.
- **4.**Click the unwanted controlling strategy and choose "delete" to clear it.
- 5. Finally click "finish"

Remarks:

- When start and use the brightness automatic adjustment, we can't close the software in the computer, otherwise it will fail. And the status of the computer software needs to be on when the computer begins to work;
- Open and start setting: host computer software <setting> and tick <open and start>;
- 3.If two time quantum are the same but with different brightness values, only the brightness value of the first time quantum is effective. The unit of the time quantum is hour;

2. Light sensation adjustment :

2.1 Connection diagram:

- Light sensor connects to USB of computer. The host computer software will have real-time detection of the data returned from the light sensor.
- **2.** The sketch map below is for the connection of computer with controller via light sensor.
- 3. Single Light sensor can control several C5.0 controllers' brightness.



2.2 Use software to allocate light sensation parameter

Open Y deaFast (v2.0.5) controlling software and click "function". Click "Automatic Brightness adjustment_Light Sensor" enter configuration interface;

Timing	adjustme	ent 🗿 Li	ght ad	justment		ligh gray
Sensors						
Index	Sensor	Conto	orl S	Note	,	
1	COM23	s co	M4	11		
Light Se Illumina	nsor1(CC tion 1(0M23) 01 To	6553	0 Light	Value:	255
		A J J (A)	De			
		Add(<u>A</u>)	De	lete(<u>D</u>)	Sea	rch(<u>C</u>)
Index	Illuin	Illuin	Light	lete(<u>D</u>) Value	Sea Cu	rrent
Index 1	Illuin 0	Illuin 100	Light 1	lete(<u>D)</u> Value 0	Cu Illum	rrent ination:
Index 1 2	Illuin 0 101	Add(<u>A</u>) Illuin 100 65530	Light 1 2	Value 0 55	Cu Illum	rrent ination:
Index 1 2	Illuin 0 101	Illuin 100 65530	Light 1 2	lete(<u>D</u>) Value 0 55	Cu Illum 0	rrent ination:

(picture 4 light sensation parameter configuration)

Light sensation adjustment :If the illumination is at a predefined light interval, the screen will adjust brightness automatically according to preset brightness value.

Light sensation adjustment supports multiple sensors. Double-click the empty area under the controlling port to select the corresponding serial port.

Note: This function can be used to record some features of the current sensors, such as the position of the sensor, left, right, or middle. Double-click the blank area below to display an edit box;

Sensors					COM3 ✓ COM4 ✓ COM23
Index	Sensor	Contorl Serial	Note	1	
1	COM23	COM4			

2.2.1First, click [check] to see the Illuminance values beneath. The unit is unit Lx.

2.2.2 You can set the lighting interval and the corresponding luminance value based on the current environmental illuminance. The range of brightness values is 0-255 and light interval can be set freely.

2.2.3 If you need high grey level low brightness function, tick the function. After setting the light range and the corresponding luminance values , click Add will have lighting range appeared below the table. It supports multiple illumination range. Finally tick start light sensation adjustment and click Finish.

2.2.4 Switch light sensor: single click the list of light sensor.

c										
Index	Sensor	Conto	orl S No	te	Index	Sensor	Conto	orl S	Note	
1	COM23	со	M4 11	1	1	COM23	CO	M4	11	
	 	+								
Light Se Illumina	nsor1(CC tion 1	M23))1 Te	o 65530 Ligt	ht Value: 255	Light Se Illumina	nsor1(CO tion 10	M23) — 1 Te	65530	Light	Value: 255
Light Se Illumina	msor1(CC tion 1	M23))1 Te Add(<u>A</u>)	a 65530 Ligh Delete(<u>D</u>)	ht Value: 255 Search(<u>C</u>)	Light Se Illumina	nsor1(CO tion 10	M23) 1 To Add(<u>A</u>)	65530 Dele	Light tte(D)	Values 255 Search(C
Light Se Illumina Index	nsor1(CO tion 1 Illuin	M23) D1 Te Add(<u>A</u>) Elluin	65530 Ligh Delete(<u>D</u>) Light Value	ht Value: 255 Search(C) Current	Light Se Illumina Index	nsor1(CO) tion 10 Jlluin	M23) 1 To Add(<u>A</u>) Illuin	o 65530 Dele Light V	Light ete(D) /alue	Values 255 Search(C
Light Se Illumina Index	nsor1(CO tion 1 Illuin	M23) D1 To Add(<u>A</u>) Illuin	o 65530 Ligh Delete(<u>D</u>) Light Value 10	ht Value: 255 Search(C) Current Illumination	Light Se Illumina Index	nsor1(CO) tion 10 Illuin0	M23) 1 To Add(<u>A</u>) Illuin 100	65530 Dek Light V	Light te(D) /alue	Value: 255 Search(C Current Illuminatio

(Picture5 light sensor list)

Remarks:

- 1.When start the light sensation automatic adjustment, the computer software can't be off, otherwise it fails to work.
- 2.If two time quantum are the same but with different brightness values, only the brightness value of the first time quantum is effective.
- 3.The inquiry interval of the software is 1 second, that is to say, every one second the software should check the illuminance to match the corresponding brightness value.
- 4.Sensors can't be selected until multiple sensors are connected to the computer.