



丞基技研股份有限公司

User Manual

Model : LED LIGHT BOX “LFB2-350”

Model P/N: GLC-LFB2-350

丞基技研股份有限公司 3AMechatronic Co., LTD.

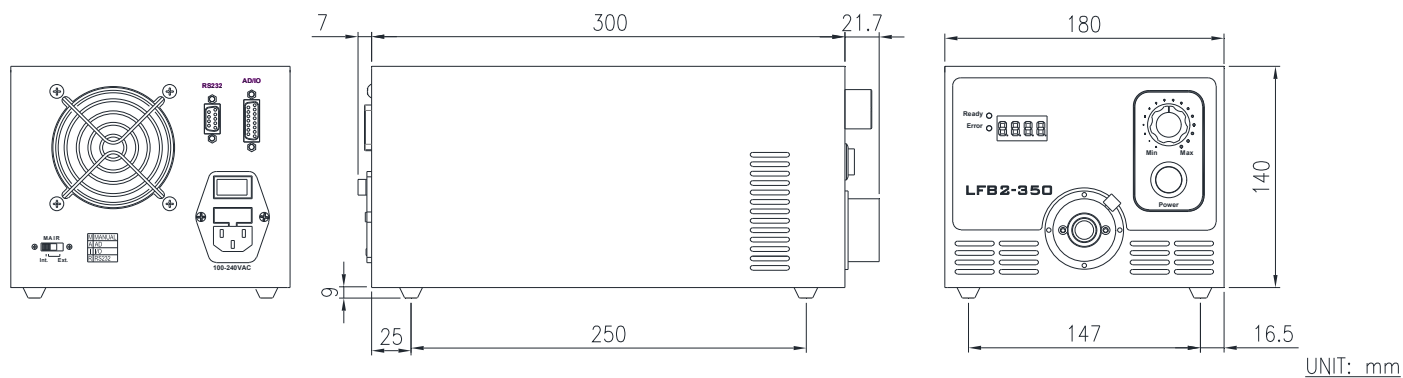
ADD: 7F-7, No. 12, Lane 609, Sec. 5, Chongxin Rd.,
Sanchong Dist., New Taipei City 241, Taiwan (R.O.C)

TEL: +886-2-29997331 FAX: +886-2-22787113

GLC-LFB2-350 USER MANUAL

I. Specification

1. Dimensions



2. Specification Chart

Model	GLC-LFB2-350
Main Voltage	100-240 VAC
Main Frequency	50/60Hz
Connected Load	500VA
Control Methods	Knob /RS232/IO/AD
	Output range 0%~100%
Size (depth*width*height in mm)	300*180*140
Ambient Temperature	5~35 °C

II. Appearance Description

1. Name for Each Section

Display Section

- Indicate the output

Ready LED

- Ready

Error LED

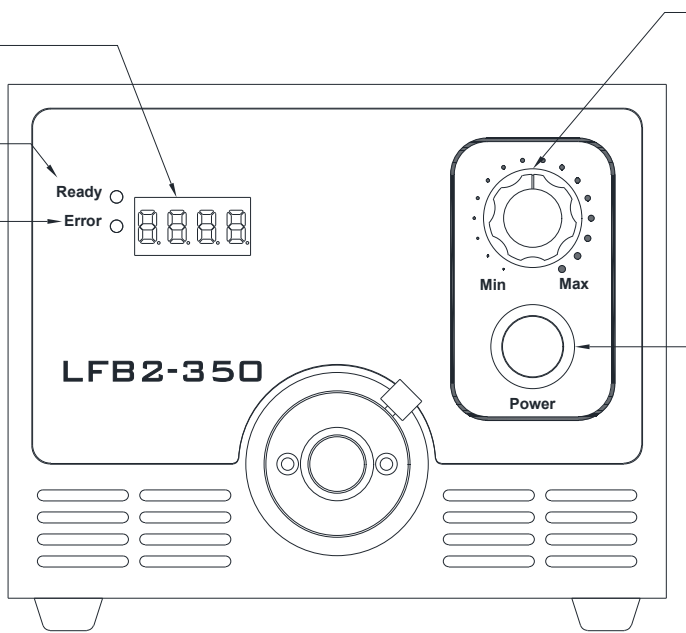
- Error

Knob

- Brightness adjustment

Power Switch

- On /Off



External Control

Connector

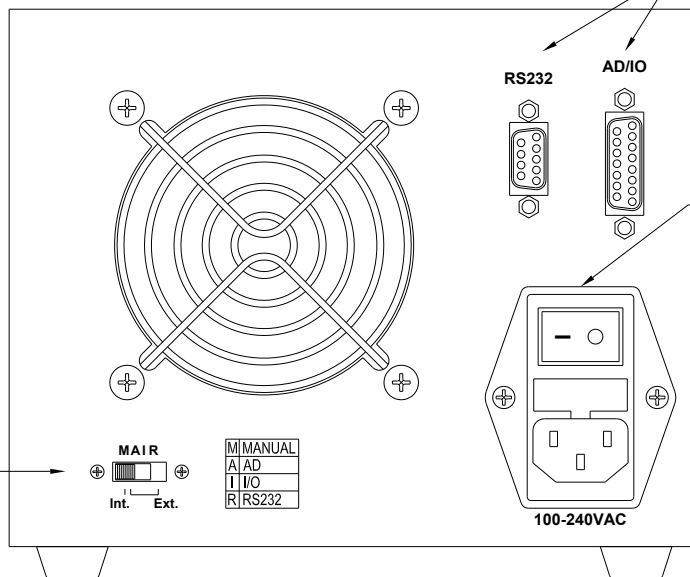
- D-Sub 15 Pin connector
(AD/IO signal)

- D-Sub 9 Pin connector
(RS232 signal)

AC Input Socket

- IEC C14 connector
(100-240 VAC)

- 250V/2A/20*5mm Fuse



Slide Switch

-Control mode selector

2. Definition of External Connector

A.D-Sub 15P Connector

PIN	Definition		Note
1	B0	Dimming light byte B0 (LSB)~B7(MSB) Value: 0~255	Min: 11111111 b Max: 00000000 b
2	B1		
3	B2		
4	B3		
5	B4		
6	B5		
7	B6		
8	B7		
9-13	X		
14	AD Signal	0~5V analog signal input pin	
15	G	signal ground	DC 0V

B. D-Sub 9P Connector

PIN	Definition	Note
2	Tx	PC Rx
3	Rx	PC Tx
5	G	

3. Slide Switch description

Position	Control Mode
MAIR 	Manual control
MAIR 	AD control
MAIR 	IO control
MAIR 	RS232 control

III. Control Methods

Any control methods can be switched on and off through the “Power Switch” button.

The control modes selected by the “Slide switch” are shown below: Manual, RS232, IO, and AD control

1. Manual Control

Use “Knob” to adjust the output intensity.

2. RS232 Control

A. Adjust the output intensity with RS232 communication.

B. Definition of D-Sub9Pconnector

Pin	Definition	Note
2	Tx	PC Rx
3	Rx	PC Tx
5	G	DC 0V

C. RS232 communication specification

Baud Rate : 115200

Byte Size : 8 bits

Parity : None

Stop Bit : 1 stop bit

D. Command

Command is shown in ASCII. The communication format refers to the following chart.

Insert the output level (0000~00FF) in Data.

	Header	Data	Check Sum	Trailer
Send form PC	(1 char)	(4 char)	(2 char)	(1 char)
Example	W 0x57	0 0 8 0 0x30 0x30 0x38 0x30	1 F 0x31 0x46	Q 0x51

Note1: The above example output level is 128 levels.

Note2: The Check Sum is the lower 1 byte of the sum of Header and Data.

The way to calculate Check Sum for the above example is:

$$0x57+0x30+0x30+0x38+0x30=0x1\boxed{1F}$$

Therefore, the Check Sum is 1F.

3. IO Control

A. Input B0~B7 to adjust the output intensity. High level (DC 5V) is logic 0.

B0: LSB, Lower Single Bit

B7: MSB, Most Significant Bit

B. Definition of D-Sub15P connector

Pin	Definition	Note
1	Dimming light byte B0(LSB)~B7(MSB) Value: 0~255	Min: 11111111 b Max: 00000000 b
2		
3		
4		
5		
6		
7		
8		
15	G	DC 0V

4. AD Control

A. Adjust the output intensity with AD signal.

The output range 0%~100% corresponds to the AD signal 0V~5V.

B. Definition of D-Sub15P connector

Pin	Definition	Note
14	AD Signal	Min: 0V Max: 5V
15	G	DC 0V