

AVIS *LED LIGHT SYSTEM*
LED Color Viewer

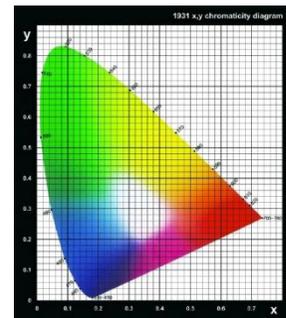
IPL-HD200 Series
User Manual



Ver 1.0



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- ❖ Summary & use field of product
- ❖ Model Definition
- ❖ Feature of product
- ❖ Function name & description of product
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Important Safety Precautions

Read these guideline before using product.



Warning

Warning statements identify conditions or practices that could result in injury or loss of life.



Caution

Warning statements identify conditions or practices that could result in damage to this product.



Caution

- Do not install the slope.
- Provide proper ventilation.
- Use proper power code.
Use only the power code specified for this product and certified for the country of use.
- Do not operate with suspected failure, and call the head-office.
If you suspect that there is damage to this product, have it inspected by qualified service personnel.



Warning

- To avoid fire.
- Do not operate in wet/damp conditions.
- Do not operate in wet hand.
- Do not operate in an explosive atmosphere.
- Disconnect the power code from plug firstly.
- Ground the product.
This product is grounded through the grounding conductor of the power code. To avoid electric shock, the grounding conductor must be connected to earth ground.
- Do not shock or drop the product.
- Do not remove the product.
- Do not use unspecified accessories.
- Use this product with know-how.

Product Summary (Introduction)

IPL-HD200 series which it use the high brightness White LED and RGB LED offer the standard illuminant of images of camera and lens inspection.

It can be able to use 16:9 chart and 4:3 HD chart at the same time.

With the standard illuminant which provides an fixing color temperature and brightness differently, it will be able to express a many kinds color temperature and colors, and it is suitable for an image test because it will be able to express a many kinds chromatic coordinates of same color temperature to union of standard illuminant.

It is not flicker because of using a digital constant current control method, and it will be able to change the brightness of illuminant freely, and test the shading without the chart due to high uniformity of the standard illuminant.

It is suitable for the test of the camera and lens iris because of changing the degree of brightness with automatic.

Also there is a possibility of checking LED brightness and a product internal temperature condition with LCD display, and it will be able to control the degree of brightness from 0 to 1,000 step.

It will be able to control the standard illuminant color, color temperature, degree of brightness and FAN operations which it follows temperature from PC which it has built-in the AVIS controller software.

It will store the degree of brightness and a color temperature condition in 32 kind forms and the user will be able to apply with automatic.

It can be able to save the each 32 item of user B mode, so it can be choice the each item which wanted.

Use field of product

CCTV Analog Camera / USB PC Camera / Mobile Camera / Digital Camera / Lens inspection etc.

▪ Model definition

- 1). IPL-HD200 : High brightness White LED / Color temperature variable
Can be able to use 16:9 chart & 4:3 HD chart





LED	White LED Light Support
View Area	190 * 282 mm / Customizing
Function	Light Control Button Function
Display	LCD Light Brightness Display
Color Temp	Under2300K ~ Over20000K
Brightness	Over30,000Lux(Surface) / Customizing
Uniformity	Over85%
Fan	Automatic Temp. Controller
Interface	RS232C PC Interface
Software	AVIS Light Controller Software (For RS23C)
Power	AC100~250V Input, 50/60Hz
Dimension	500 * 620 * 460 (WHD, mm)

IPL-HD200 Function name & Description(Front)

Lamp Select & On/Off button

Auto Display button

Menu button

UP/DOWN button

ON/OFF button

LCD Display (DISPLAY)



LCD Display

To express all operation condition of the product.



View Area

The illuminant of Lamp is displayed part.

Lamp Select & ON/OFF Button (Lamp1~4/User1~4)



The button which selects the each lamp can do ON/OFF which corresponds. When it press above 2 seconds, the corresponding lamp will be selected and It will be able to control with UP/DOWN.



Auto Display Button

When it press, it will operate turning the lamp sequentially. Auto mode will be able to designate A mode or B mode.



Menu Button

This button is enter .



UP/DOWN Button

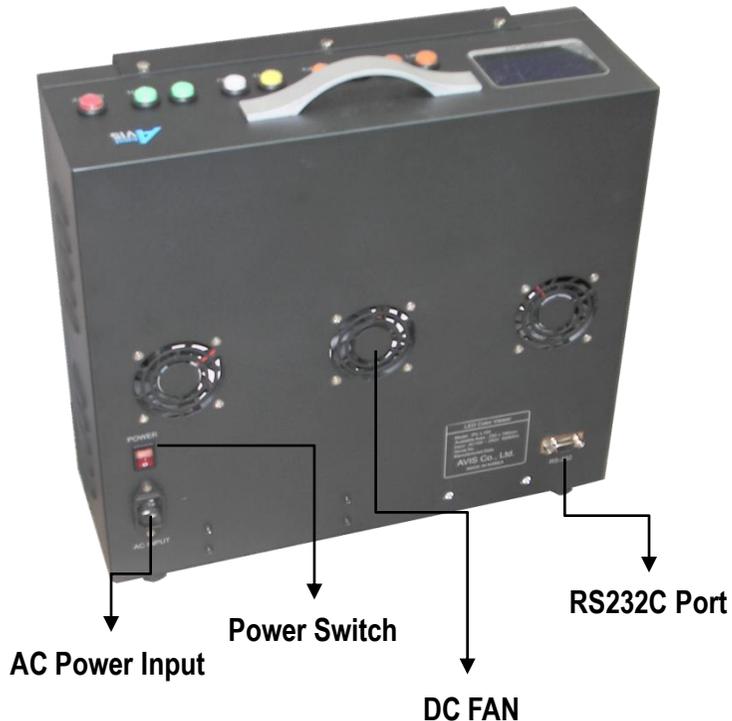
This button is brightness control.



ON/OFF Button

This button is ON/OFF control.

IPL-HD200 Function name & Description(Back)



DC FAN

According to internal temperature, the FAN is operated with automatic and according to the temperature what user wants, it will be able to control FAN operation condition.



RS232C Port

It will be able to control the whole operation condition with PC which it connect the RS232 Cable.



Power Switch

It is the main power switch.



AC Power Input

It is AC power input terminal and the input voltage is AC 100~250V 50/60Hz.

■ Option Mode



Menu Button

If you press the Menu button, it'll be able to select the option mode. It is enter function of all mode.

[Auto Mode Set / Fan Control / User Mode Set / Exit]

■ Auto Mode Setting



If you press Menu Button, it can be choice option mode.

Using UP/DOWN Button, select Auto Mode Set.

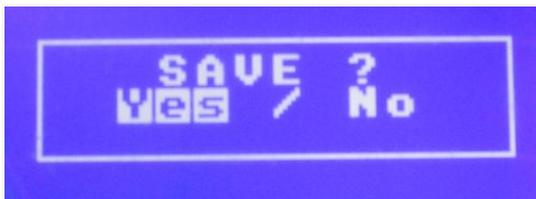
If you press Menu Button, appear to choice the mode.

Auto Mode operate Auto Mode A & Auto Mode B.

1. Auto mode A operate the lamp turn ON and OFF as waiting time by turns.

2. Auto mode B operate the lamp turn ON and OFF as setting level and waiting time.(it will able to save 32 ways.)

Auto Mode A



UP/DOWN Button

To use UP/DOWN button, automode set MODE select A.

After select Auto A mode, press menu button.

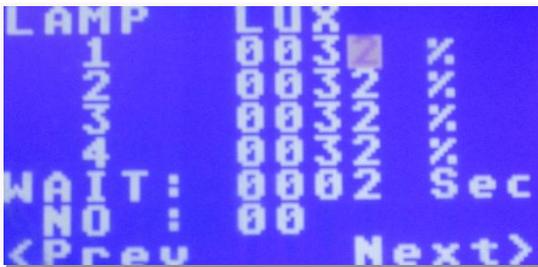
It can select each Lamp which press Lamp button.

Move cursor to left side when you press up button about 0.5second and then press down button.

Move cursor to right side when you press down button about 0.5second and then press up button.

If you press menu button, display save mode.

Auto Mode B



UP/DOWN Button

To use UP/DOWN button, automode set MODE select B.

○ After select Auto A mode, press menu button.

● It can select each Lamp which press Lamp button.

Move cursor to left side when you press up button about 0.5second and then press down button.

Move cursor to right side when you press down button about 0.5second and then press up button.

● If you press auto button, can select next.

○ If you press menu button, display next step.

○ If you press menu button, display begin & end mode.

● ○ After set begin & end, press menu button and display save mode.

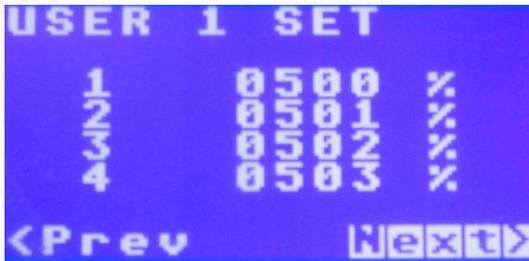
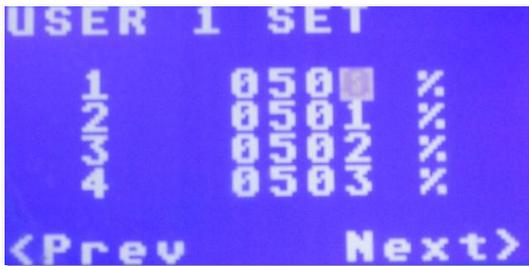
■ Fan Control



● Select fan control at option mode.

● ○ To use UP/DOWN button, set fan condition and press menu button.

■ User Mode A



- Select user mode at option mode.

- ○ After select enable, press menu button.

- To use UP/DOWN button, user select MODE select A.

- It can select each Lamp which press Lamp button.

Move cursor to left side when you press up button about 0.5second and then press down button.

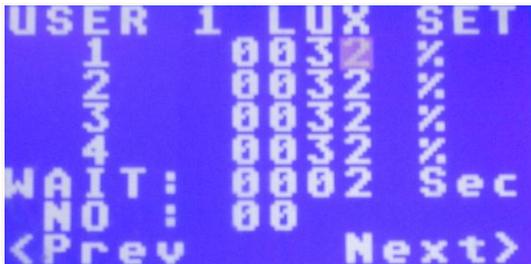
Move cursor to right side when you press down button about 0.5second and then press up button.

- If you press auto button, can select next.

- If you press menu button, display next step.

- After set user A mode, press menu button and display save mode.

■ User Mode B



- Select user mode at option mode.
- ○ After select enable, press menu button.
- ○ To use UP/DOWN button, user select MODE select B.
It can be able to save 32 items of each user mode, so can select user 1,2,3,4 which wanted to use up/down button.
And press menu button, display next step.
- It can select each Lamp which press Lamp button.
- Move cursor to left side when you press up button about 0.5second and then press down button.
Move cursor to right side when you press down button about 0.5second and then press up button.
- If you press auto button, can select next.
- If you press menu button, display next step.
- ○ After set begin & end, press menu button and display save mode.

Mode Display

Lamp Mode

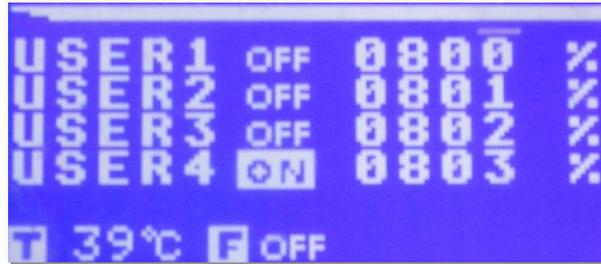


It can be controlled Lamp ON/OFF and brightness.

To use each LED Lamp, can be set color temperature and brightness.

It can not be saved at lamp mode, so you have to save User mode or mark setting code.

User A Mode

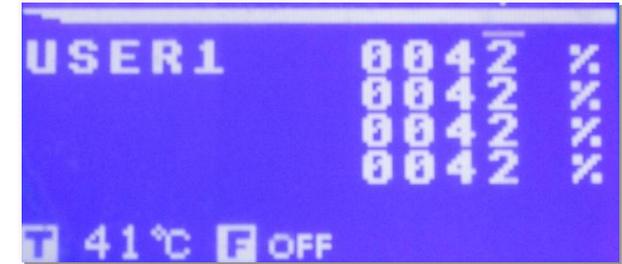


User A Mode can be able to select 4 kinds setting code with using lamp button.

If you want to change the setting code, can be set option mode.

It can not be controlled brightness at user mode.

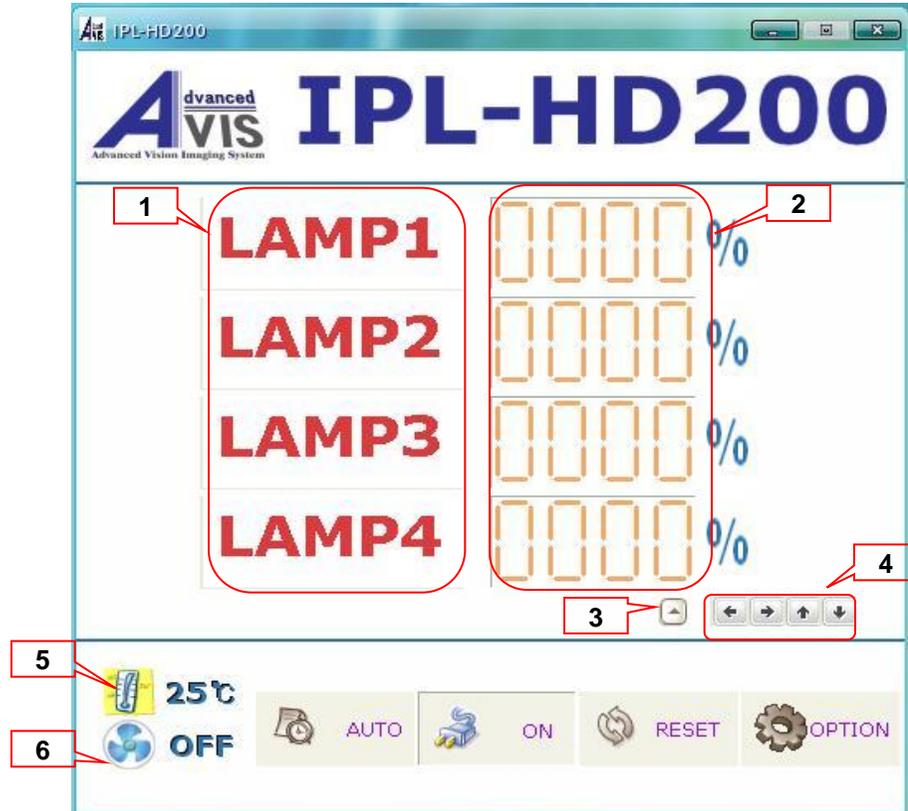
User B Mode



It can be able to save 32 items of each user mode, so can select user 1,2,3,4 which wanted to use up/down button.

Ex) If you want to select setting code of user1, can be able to press UP/DOWN button.

PC Control Program



PC control program is able to control all of IPL-HD200.

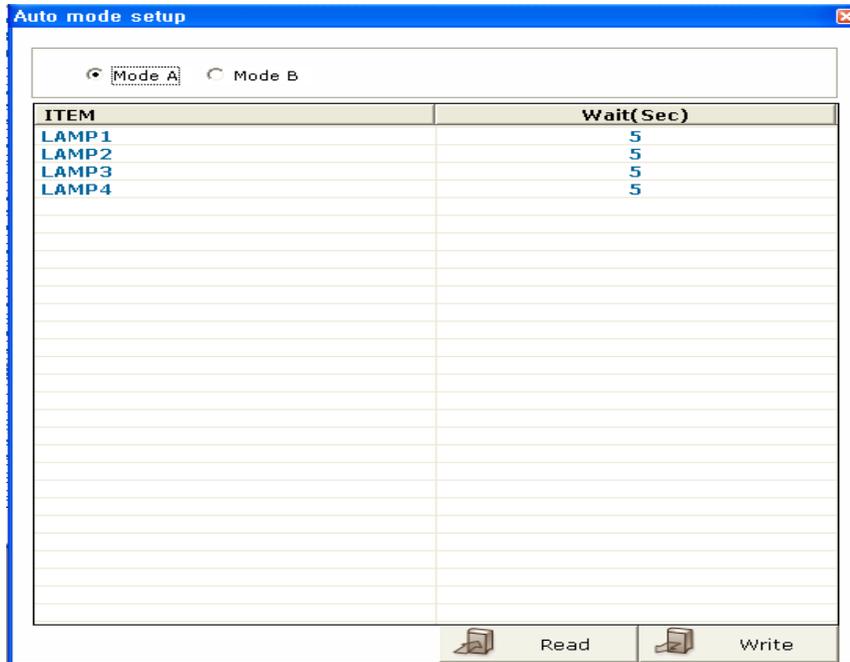
Function description

- [1] Lamp is able to turn ON or OFF when click lamp1,2,3,4.
Shot key – No. key 1(LAMP1), 2(LAMP2), 3(LAMP3), 4(LAMP4).
- [2] Display Lamp of Light Lux.
Click – Control Lamp of Light Lux
Double Click – Set the point directly.
- [3] Cursor
- [4] Move cursor, Light Lux UP/DOWN
Shot key –Move left or right.
Move up or down (Light Lux UP/DOWN)
- [5] Present temperature.
- [6] Fan operation condition.

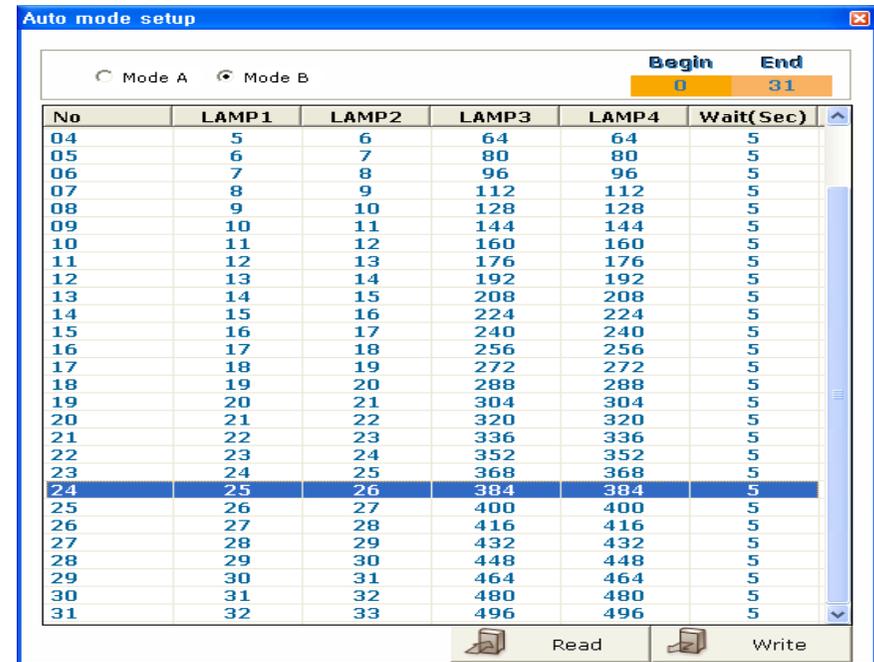
Button

- AUTO – AUTO MODE operation / stop
Shot key – **A** key
- ON - Turn all Lamp ON/OFF
Shot key – **P** key
- RESET – System Reset
Shot key – **R** key
- OPTION – Auto mode set
Fan operation set
Operation set
User mode set
Communication port set
System Setup
Firmware Upgrade
Shot key – **O** key

Auto Mode A/B

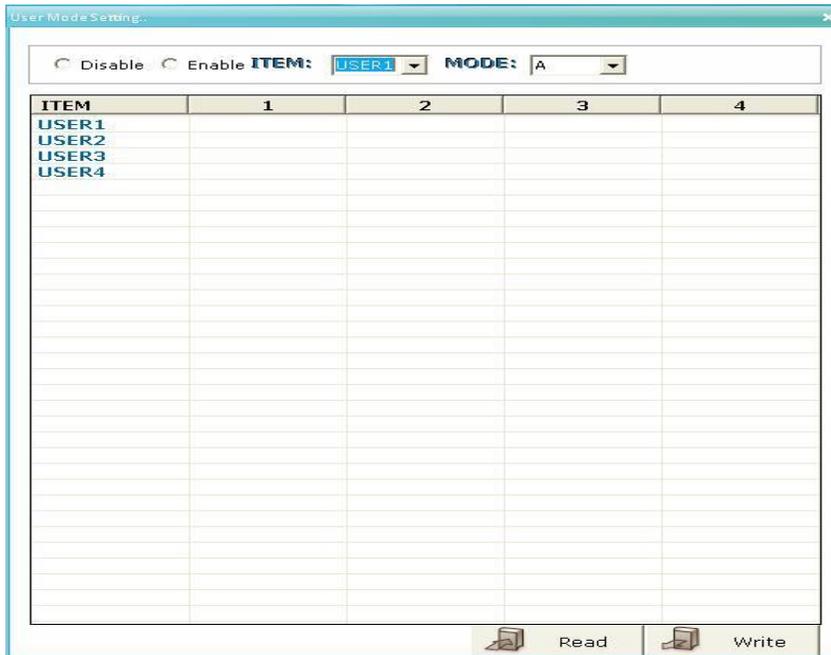


Display setting point of IPL-L150, if start firstly.
 Click each cell, and set the wait time.
 Button
 Read - Read setting point of product.
 Write - Save setting point to product.



Display setting point of IPL-L150, if start firstly.
 Set Lamp of Light Lux, wait time, begin No. and end No.
 Button
 Read - Read setting point of product.
 Write - Save setting point to product.

PC Control Program (User Mode A)

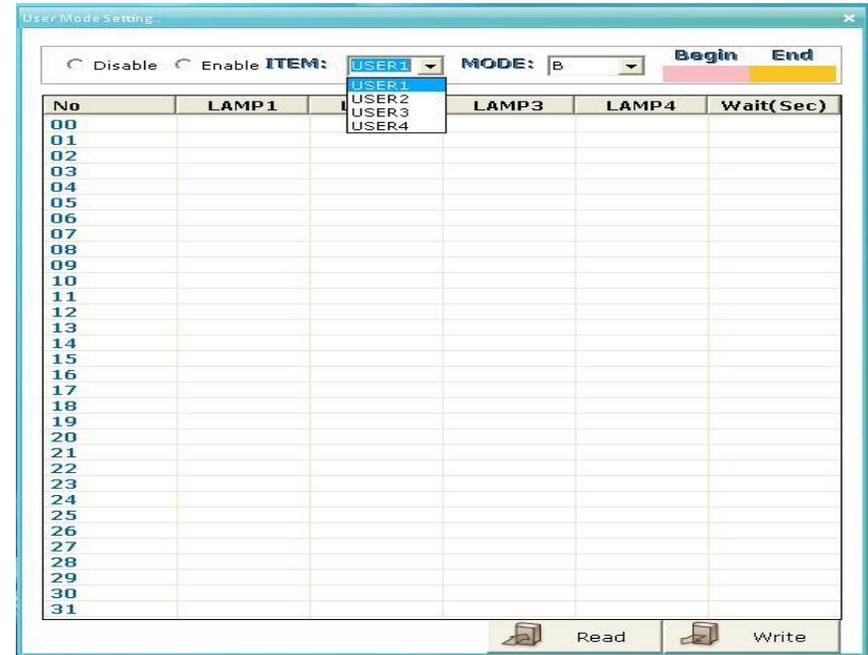


The screenshot shows the 'User Mode Setting' window. At the top, there are radio buttons for 'Disable' and 'Enable', with 'Enable' selected. Below this, there are two dropdown menus: 'ITEM:' set to 'USER1' and 'MODE:' set to 'A'. The main area is a table with 4 columns labeled '1', '2', '3', and '4', and 4 rows labeled 'USER1', 'USER2', 'USER3', and 'USER4'. At the bottom, there are 'Read' and 'Write' buttons.

ITEM	1	2	3	4
USER1				
USER2				
USER3				
USER4				

- Display setting code, if start firstly.
- Click the enable so you can operate user mode.
- Click the A at mode.
- Click each cell and set code.
- Button
- Read - Read setting code of product.
- Write - Save setting code to product.

PC Control Program (User Mode B)

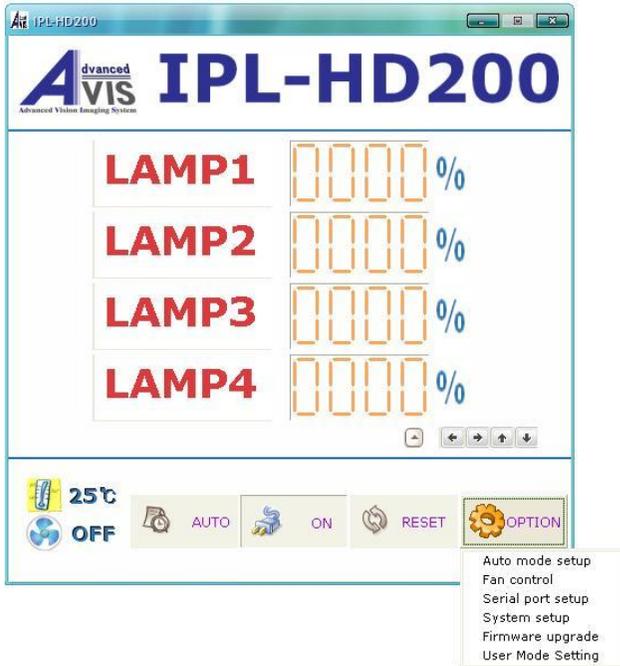


The screenshot shows the 'User Mode Setting' window. At the top, there are radio buttons for 'Disable' and 'Enable', with 'Enable' selected. Below this, there are two dropdown menus: 'ITEM:' set to 'USER1' and 'MODE:' set to 'B'. To the right of the 'MODE:' dropdown are two buttons: 'Begin' (pink) and 'End' (yellow). The main area is a table with 7 columns labeled 'No', 'LAMP1', 'LAMP2', 'LAMP3', 'LAMP4', and 'Wait(Sec)'. The 'No' column has rows from 00 to 31. At the bottom, there are 'Read' and 'Write' buttons.

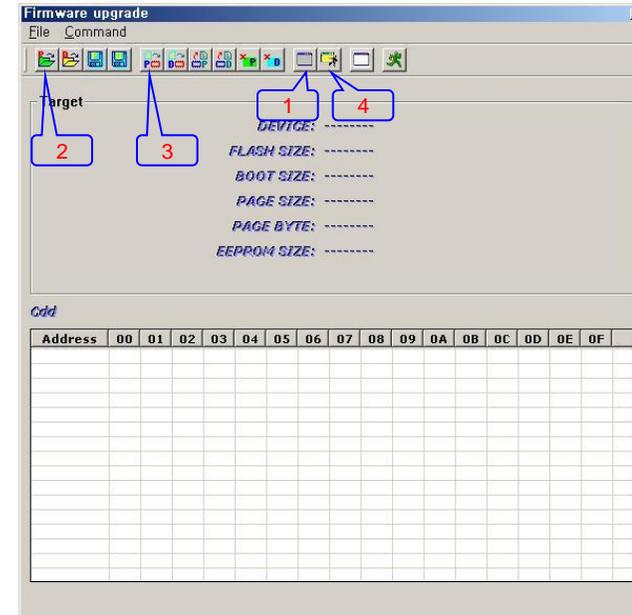
No	LAMP1	LAMP2	LAMP3	LAMP4	Wait(Sec)
00					
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

- Display setting code, if start firstly.
- Click the enable so you can operate user mode.
- Click the B at mode.
- Click each cell and se code.
- Set Lamp of Light Lux, wait time, begin No. and end No.
- Button
- Read - Read setting code of product.
- Write - Save setting code to product.

■ Firmware Upgrade



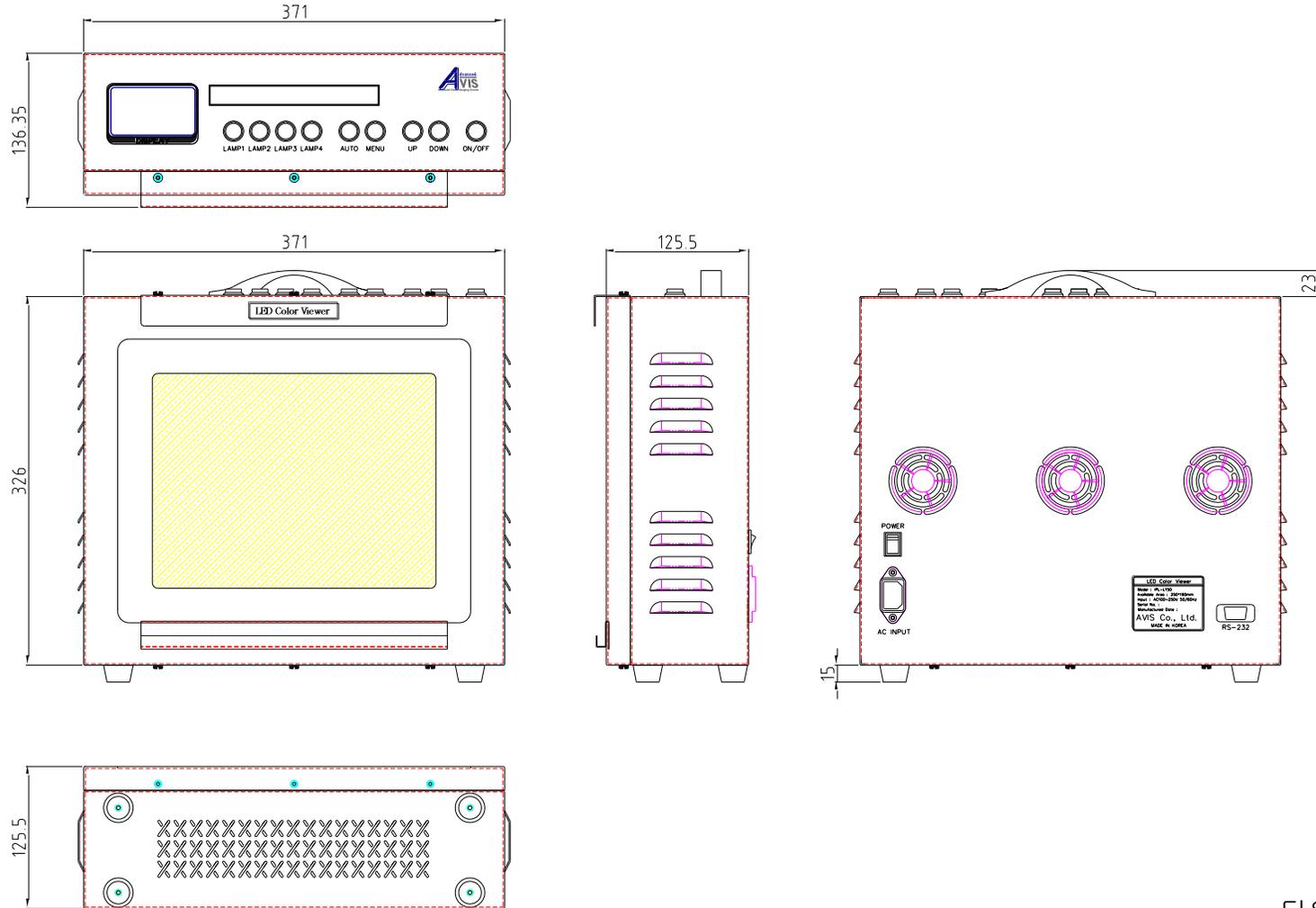
1. Program operate after RS232 cable connect to PC.
2. Click Firmware Upgrade in option mode.



1. After click jump boot program, check the device information to Target.
2. Click open program (FLASH) file, and open the Hex file (.A90).
3. Click write program (FLASH), and save the Hex file to product.
4. Click jump application program, and finish firmware upgrade.

SPECIFICATION

IPL-HD200	
LED	2 Chip White LED
View Area	190 * 282 mm
Brightness	Over30,000Lux(Surface)
Color Temp.	Under2300K~Over20000K(±5%)
Uniformity	Over 85%
Display	128*64 Dot Graphic LCD
Fan Control	Automatic / User Setting
PC Interface	RS232C
Power Supply	AC200~250V, 50/60Hz Input
Power Consumption (W)	Max. 60W (at Total ON)
Operating Temp.	-10℃ ~ +50℃
Dimension	500 * 620 * 460 (WHD, mm)



단위 : mm



IPL-HD200



CD



RS-232C Cable



AC Power Cable

Warranty

- AVIS warrants that this product will be free from defects in materials and workmanship for a period of one(1) year from the date of shipment.
 - If any such product proves defective during this warranty period, AVIS, at its option, either will repair the defective product without charge for part and labor, or will provide a replacement in exchange for the defective product.
 - Parts, modules and replacement products used by AVIS for warranty work may be new or reconditioned to like new performance.
 - All replaced parts, modules and products become the property of AVIS.
-
- In order to obtain service under this warranty, customer must notify AVIS of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service.
 - Customer shall be responsible for packaging and shipping the defective product to the head office or agent designated by AVIS, with shipping charges prepaid.
 - AVIS shall pay for the return of the product to customer if the shipment is to a location within the country in which the AVIS agent is located.
 - Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for product returned to any other locations.
-
- This warranty shall not apply to any defect, failure or damage caused by improper user or improper or inadequate maintenance and care.
 - AVIS shall not be obligated to furnish service under this warranty.
 - A) to repair damage resulting from attempts by personnel other than AVIS representatives to install, repair or service the product.
 - B) to repair damage resulting from improper use or connection to incompatible equipment.
 - C) to repair any damage or malfunction caused by the use of non-AVIS supplies.
 - D) to service a product that has been modified or integrated with other products when effect of such modification or integration increases the time or difficulty of servicing the product.
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- THIS WARRANTY IS GIVEN BY AVIS WITH RESPECT TO THE PRODUCT IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED. AVIS AND ITS VENDORS DISCLAIM ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. AVIS' RESPONSIBILITY TO REPAIR OR REPLACE DEFECTIVE PRODUCTS IS THE SOLE AND EXCLUSIVE REMEDY PROVIDED TO THE CUSTOMER FOR BREACH OF THIS WARRANTY. AVIS AND ITS VENDORS WILL NOT BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IRRESPECTIVE OF WHETHER AVIS OR THE VENDOR HAS ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

You can download programs the latest controller software from AVIS webpage.
It can change the specification without any notice for the quality improvement.

Website : <http://www.yojet.com.tw>

E-mail : kevin@yojet.com.tw

Contact the product purchase consultation and general inquiries to our head office.

Head office : 886-2-2729-2660

MADE IN KOREA