

CU106 Control Unit

User Manual

[Note] The pictures of Optical Engine and control unit used in this manual are for reference only. If there is something different from the actual product, please subject to the actual product.

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1. Safety Instructions

Please use the product following the safety instructions below:

1 Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place product in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on this Product. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
- 1.7 Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block slots and openings in the case of this product as poor ventilation may lead to overheating of this product.
- 1.10 Except as specifically instructed in this User Manual, do not attempt to open or remove covers by yourself. It may expose you to electric shock or other hazards. Refer all servicing to licensed service personnel.
- 1.11 Unplug this product from the outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the Product or the Product has been exposed to rain or water.

2 Installation

- 2.1 For security considerations, please ask technician personnel approved by agents to install it.
- 2.2 Potential difference should be checked with a meter before installation to avoid equipment damage and personal injury due to electric shock. <Note> Please refer this task to a qualified technician to avoid potential risks.
 - Before you connect and control the video signal, use the meter to verify the connectors or device to be connected for any potential difference.
 - Measure the RS-232, DVI, VGA or video signal connectors of the device to be connected using the meter. (For measurement method, please refer to FAQ).
 - If the measured potential difference is more than 10 V, please contact qualified service personnel for troubleshooting.

- Using the device at a potential difference of larger than 10 V may cause risk of device damage and electric shock.

3 Storage

- 3.1 Do not place the Product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Product.
- 3.3 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.4 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

- 4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

5 RTC Battery

- 5.1 If the wrong model of battery is used, there is a risk of explosion. Please confirm with the original manufacturer and take good care of the used battery.

6 Remote control (if the accessories are equipped with remote control)

- 6.1 Using an incorrect battery type in the remote control may result in breakdown. Follow local instructions on how to dispose of used batteries.

■ Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

	Note Risk of Electric Shock Do not remove cover	
Caution: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.		

This is a Class A product. In a residential environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, reception room or hall.

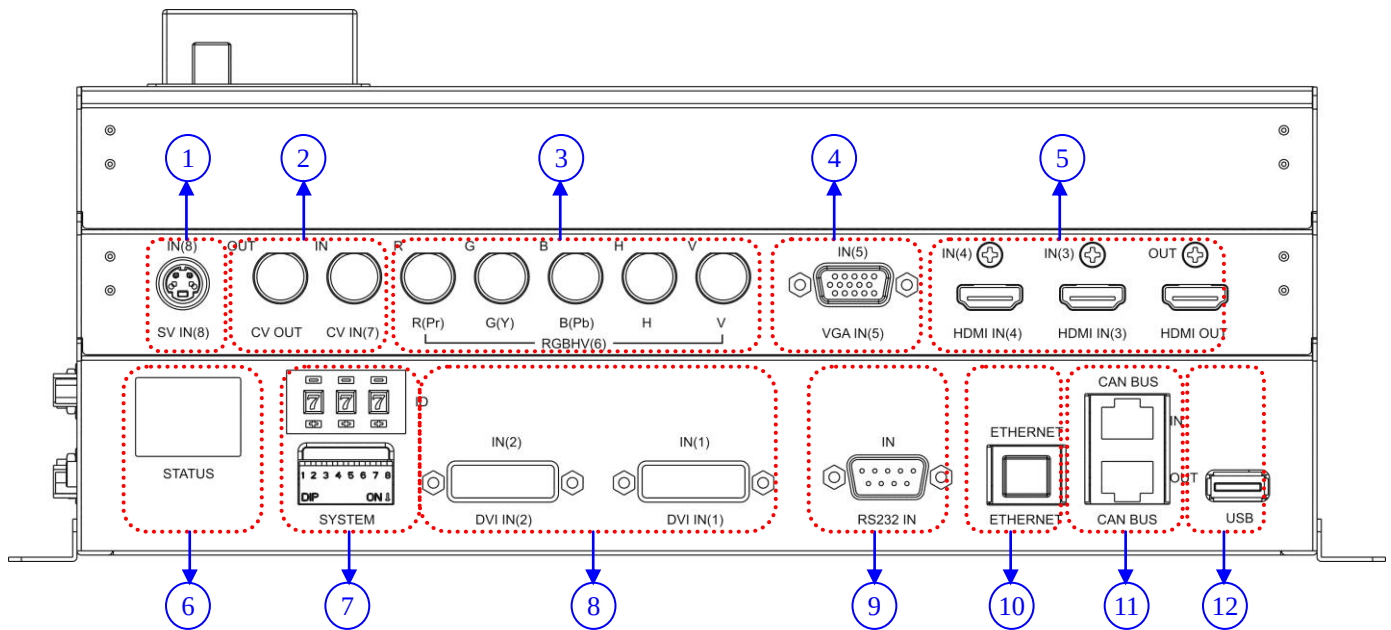
2. Package Contents

The following accessories are included:

- 2.1. DVI cable
- 2.2. IR extension cord
- 2.3. Metal plate
- 2.4. 5 V/12 V connector
- 2.5. GPIO connector
- 2.6. 1.5m Ethernet cable(for CAN Bus)

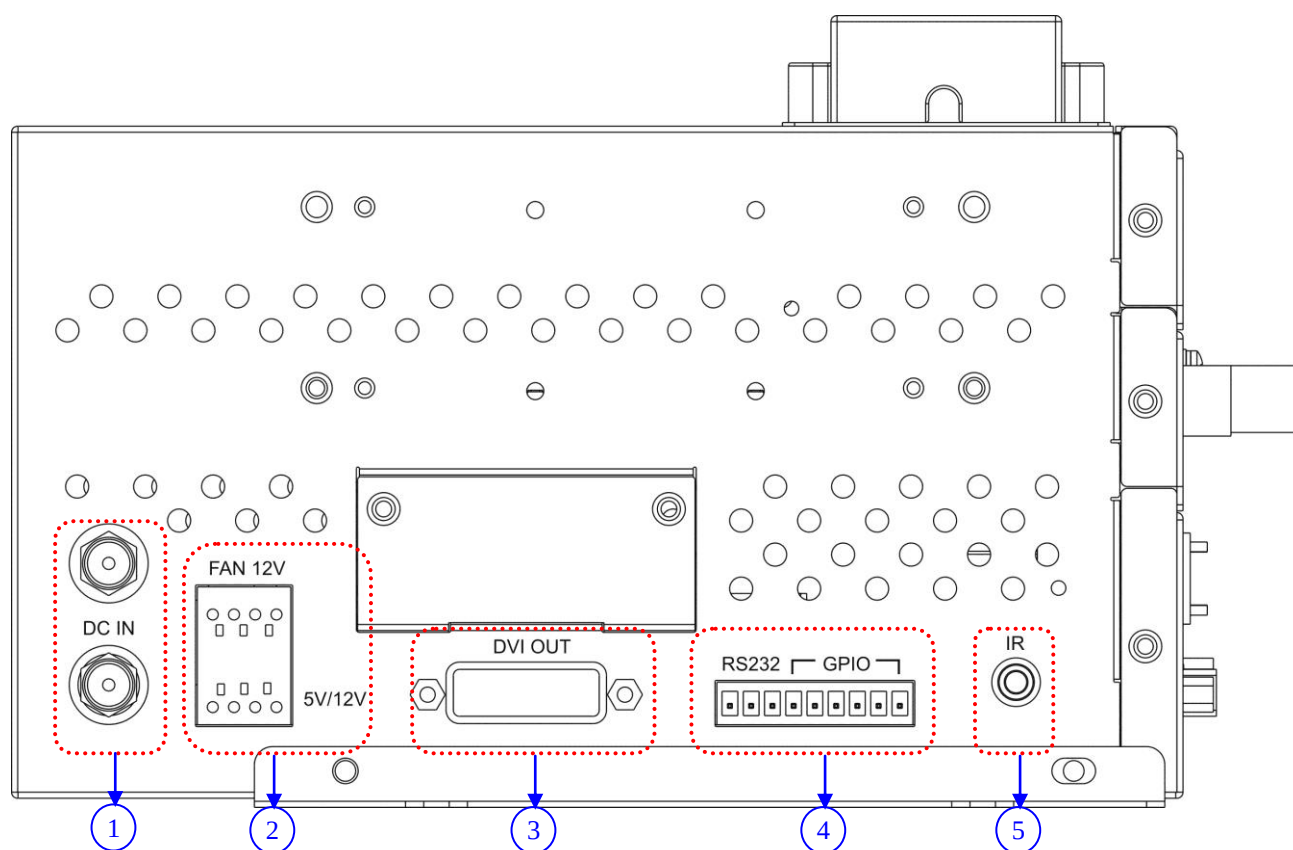
3. Port Description

3.1. Front View



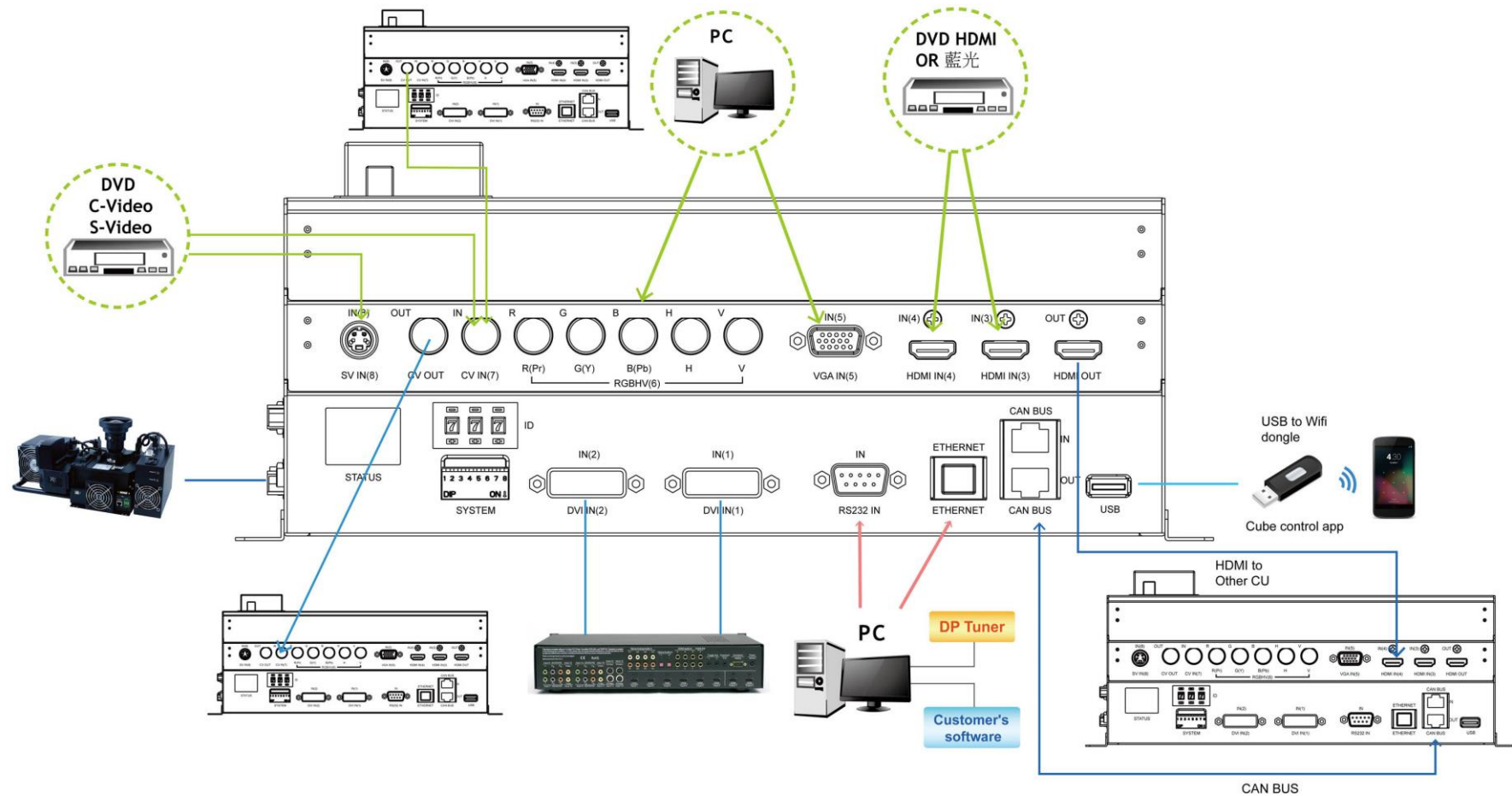
1. SV IN port
2. CV IN/OUT port
3. RGBHV port
4. VGA (5) IN port
5. HDMI IN/OUT port
6. LED Indicator
7. ID/SYSTEM DIP switch setting
8. DVI (1)/DVI (2) IN port
9. RS232 IN port
10. LAN port
11. CAN BUS port
12. USB port

3.2. Side View



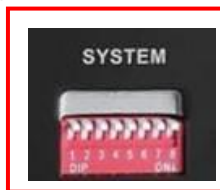
1. Power OUT port
2. 12 V fan output socket
3. DVI OUT port
4. RS232/GPIO port
5. IR connector

4. System diagram



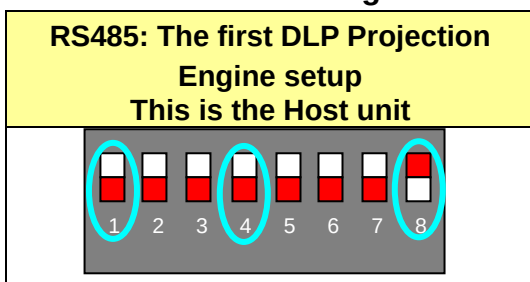
5. DIP SWITCH Setting

5.1. SYSTEM DIP SWITCH Setting



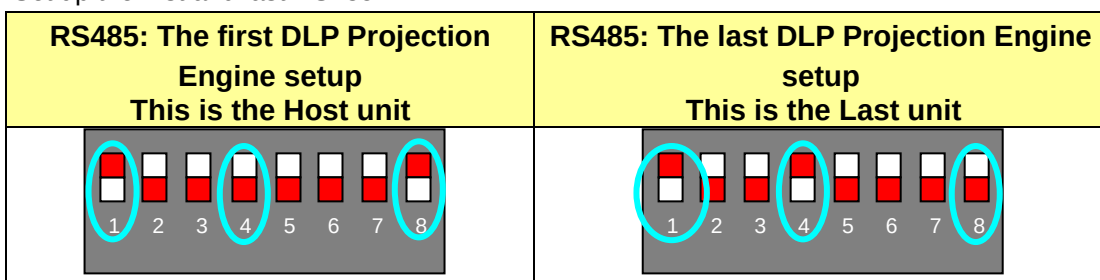
<Remark> System: Provide system setup and debug mode. The white colored position is for jumping setup

5.1.1. When Connecting to One or Two CU106 Only



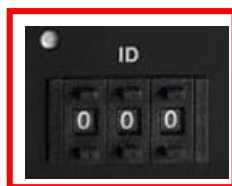
5.1.2. When Connecting to Three or More CU106

Set up the first and last RS485.



5.2. ID DIP SWITCH Setting

Define the **ID number (ID address)** of each DLP Projection Engine;



5.2.1. Set up ID of DLP Projection Engine by its sequence

<Note> Set limits

※The Host ID number must be 000.

※The ID number must be in consecutive, rather than broken, sequence (i.e. 000 → 001 → 002 ...)

5.2.1.1. Recommended ID number setup sequence (blue arrow indicates series connection of RS-485). Take 3 x 8 DLP Projection Engine for example

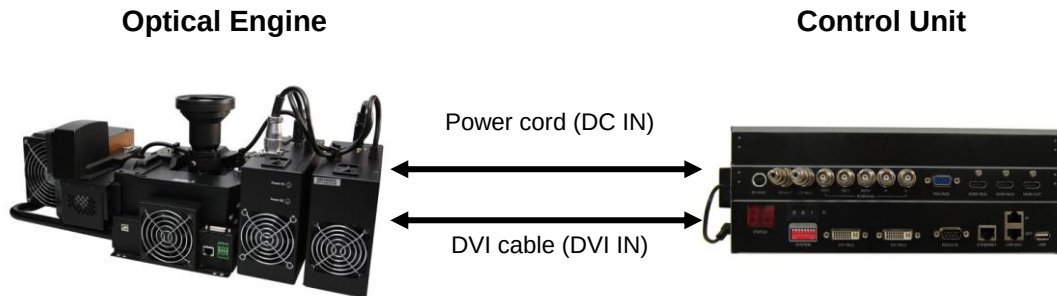
First machine ID number 000	→	Second machine ID number 001	→	Third machine ID number 002	→	Fourth machine ID number 003	→	Fifth machine ID number 004	→	Sixth machine ID number 005	→	Seventh machine ID number 006	→	Eighth machine ID number 007
														↓
Ninth machine ID number 015	←	Tenth machine ID number 014	←	Eleventh machine ID number 013	←	Twelfth machine ID number 012	←	Thirteenth machine ID number 011	←	Fourteenth machine ID number 010	←	Fifteenth machine ID number 009	←	Sixteenth machine ID number 008
↓														
Seventeenth machine ID number 016	→	Eighteenth machine ID number 017	→	Nineteenth machine ID number 018	→	Twentieth machine ID number 019	→	Twenty first machine ID number 020	→	Twenty second machine ID number 021	→	Twenty third machine ID number 022	→	Twenty fourth machine ID number 023

6. Starting Installation

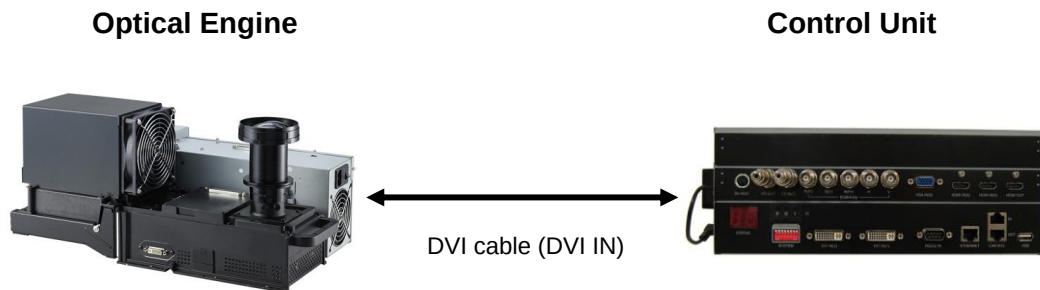
6.1. Attach the CU (Control Unit) to the DLP Projection Engine

6.2. Connect the LE (Optical Engine) and the CU (Control Unit)

6.2.1. Connected to LE-Tx0/LE-Uxx: Use the long DVI cable, DC power cord



6.2.2. Connected to LE-9x3: Use the long DVI cable

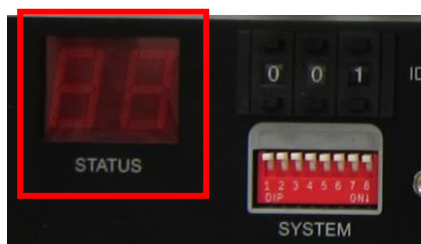


6.3. Wait until all the CU (Control Units) are installed

7. Preliminary Test

- 7.1. Turn on your CU (Control Unit)
- 7.2. Turn on your CU with Remote
- 7.3. Confirm correct display
- 7.4. Confirm all the LED indicators light green

8. LED Indicator Overview



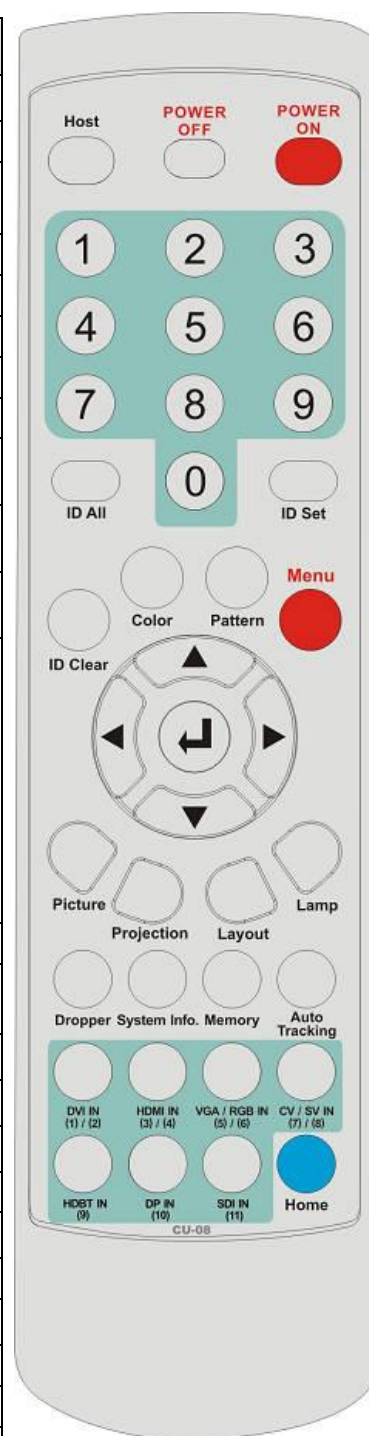
8.1. Description of ON status messages

Code	Status	Code	Status
A0	CU (Control Unit) in standby mode.	A4	Wait for lamp to cool when the system is powered off.
A1	Starts.	A5	Ignition fails; restarting.
A2	Illuminating.	A6	Firmware updating (Master).
A3	Lamp in normal operation (on).	A7	CU (Control Unit) not connected to Engine (Light Engine)

9. Overview of buttons on Remote

<Remark> The below functions are listed alphabetically

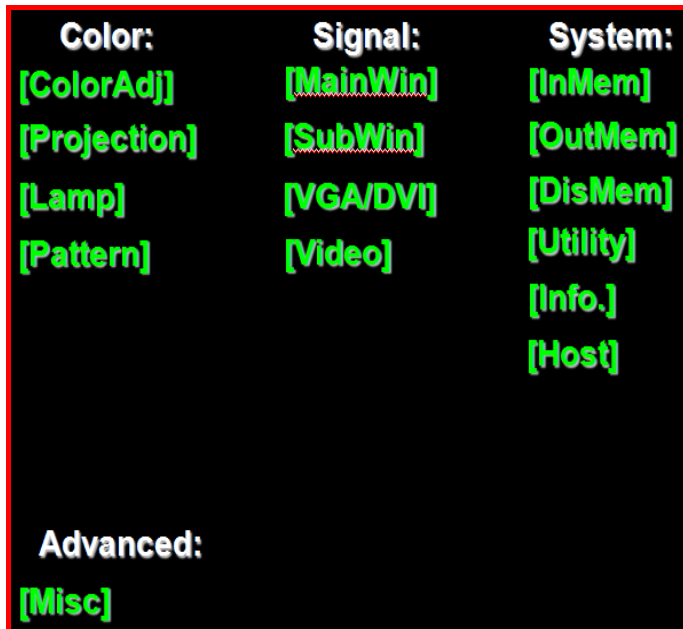
Button	Function
# 0~#9	Number 0 ~ 9
↵	Enter key
Top, bottom, left, and right arrow keys	Arrow key for selecting items in OSD menu
Auto Tracking	NA
Color	RGBCMYW color adjustment
CV IN (7) / SV IN (8)	Select Video 7 signal input and Video 8 signal input
Dropper	ICC (Independent Color Control)
DP IN(10)	Select DP IN (10) signal input
DVI IN (1) / DVI IN (2)	Select DVI 1 signal input and DVI 2 signal input
HDBaseT IN(9)	Select HDBaseT IN (9) signal input
HDMI IN (3) / HDMI IN (4)	Select HDMI 3 signal input and HDMI 4 signal input
Home	Press this key to point the OSD cursor to Color Temp. This is valid only in status of ID Activities. Available statuses are: 1. If OSD is open, no matter in which level, press this button, and the cursor will return to Color Adj. 2. If OSD is not open, press this button, open the OSD, and the cursor position will be in the Color Adj.
Host	Turn On Host of the display wall
ID All	Enable all the display walls to be controlled by Remote
ID Clear	Clear projection unit setting
ID Set	Set up projection unit
Lamp	Display the control Lamp menu
Layout	Set the screen to n x m
Memory	Display Memory menu
Menu	Display the OSD menu
Pattern	Built in test screen
Picture	Adjust Color, Sharpness and Hue of the screen
Power Off	Power off
Power On	Power on
Projection	Projection method adjustment (Gamma, Flip ...)
SDI IN(11)	Select SDI IN (11) signal input
System Info.	System status information
VGA IN (5) / RGB IN (6)	Select VGA 5 signal input and RGB 6 signal input



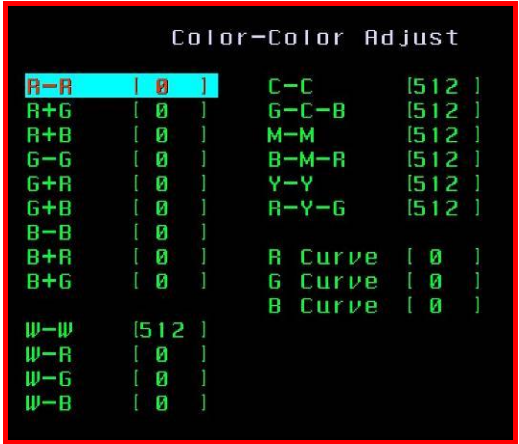
10. On Screen Menu Overview

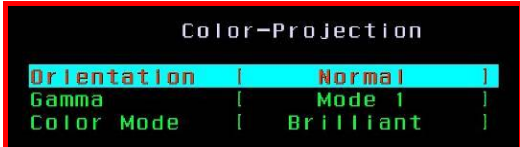
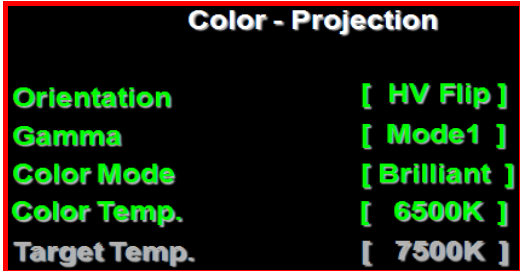
Press the [Menu] key of your Remote and the screen menu displays.

<Remark> Please contact with Lumens for adjustment and default values

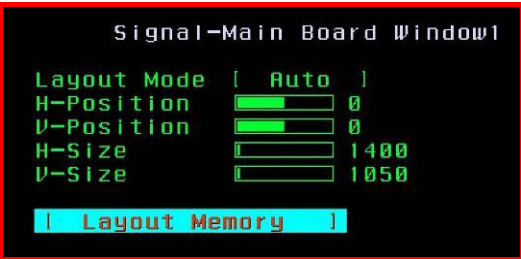
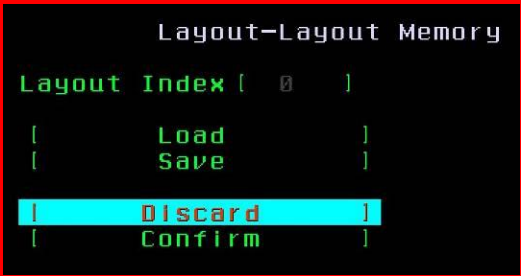
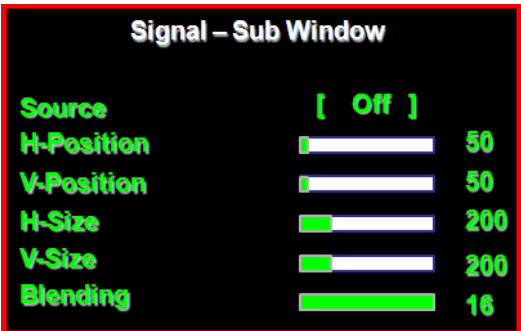


Color-Warp	Item	Value/ Selection	Description
Used with CUB-WARP	Top Left	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal and vertical position of the top left point
	Middle Left	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal position of the middle left point
	Bottom Left	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal and vertical position of the bottom left point
	Top Center	(-300 ~ 300. -300 ~ 300)	Adjust the vertical position of the top center point
	Center	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal and vertical position of the center point
	Bottom Center	(-300 ~ 300. -300 ~ 300)	Adjust the vertical position of the bottom center point
	Top Right	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal and vertical position of the top right point
	Middle Right	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal position of the middle right point
	Bottom Right	(-300 ~ 300. -300 ~ 300)	Adjust the horizontal and vertical position of the bottom right point

	Warp Zoom	NA	Manual adjustment Warp Zoom
	Warp Reset	NA	Reset Warp parameter to default setting
Color - Uniformity	Item	Value/ Selection	Description
For LE-Uxx / LE-Txx	Center R	-128 ~ 127	Adjust the center-to-edge uniformity for brightness
	Center G	-128 ~ 127	
	Center B	-128 ~ 127	
	Hor. R	-128 ~ 127	
	Hor. G	-128 ~ 127	
	Hor. B	-128 ~ 127	
	Ver. R	-128 ~ 127	
	Ver. G	-128 ~ 127	
	Ver. B	-128 ~ 127	
Color-Color Adj.	Item	Value/ Selection	Description
	R-R	-127 ~ 0	Reduce Brightness of pure red
	R+G	0 ~ 1023	Increase green color in pure red
	R+B	0 ~ 1023	Increase blue color in pure red
	G-G	-127 ~ 0	Reduce Brightness of pure green
	G+R	0 ~ 1023	Increase red color in pure green
	G+B	0 ~ 1023	Increase blue color in pure green
	B-B	-127 ~ 0	Reduce Brightness of pure blue
	B+R	0 ~ 1023	Increase red color in pure blue
	B+G	0 ~ 1023	Increase green color in pure blue
	W-W	0 ~ 1023	Adjust white Saturation
	W-R	0 ~ 1023	Reduce red color in pure white
	W-G	0 ~ 1023	Reduce green color in pure white
	W-B	0 ~ 1023	Reduce blue color in pure white
	C-C	0 ~ 1023	Adjust cyan Saturation
	C+R	0 ~ 1023	Increase red color in cyan

	G-C-B	0 ~ 1023	Adjust ratio of blue and green colors in cyan
	M-M	0 ~ 1023	Adjust magenta Saturation
	M+G	0 ~ 1023	Increase green color in magenta
	B-M-R	0 ~ 1023	Adjust ratio of red and blue colors in magenta
	Y-Y	0 ~ 1023	Adjust yellow Saturation
	Y+B	0 ~ 1023	Increase blue color in yellow
	R-Y-G	0 ~ 1023	Adjust ratio of red and green colors in yellow
	Curve		
	R Curve	-64 ~ 64	Adjust red color in gray
	G Curve	-64 ~ 64	Adjust green color in gray
	B Curve	-64 ~ 64	Adjust blue color in gray
	Black Adjust		
	Black+R	0 ~ 127	Increase red color in the black image
	Black+G	0 ~ 127	Increase green color in the black image
	Black+B	0 ~ 127	Increase blue color in the black image
	128 W+G	-2 ~ 2	Adjust green color in gray level, using pattern 107 (for Laser Series)
	128 W+B	-2 ~ 2	Adjust blue color in gray level, using pattern 107 (for Laser Series)
Color-Projection			
Item		Value/ Selection	Description
	Orientation	Normal	Make the projection image normal
		HV Flip	Make the projection image have a horizontal and vertical flip
		H Flip	Make the projection image have a horizontal flip
		V Flip	Make the projection image have a vertical flip
	Gamma	Mode 1	Adjust the Gamma mode 1
		Mode 2	Adjust the Gamma mode 2
		Mode 3	Adjust the Gamma mode 3
		Mode 4	Adjust the Gamma mode 4
			

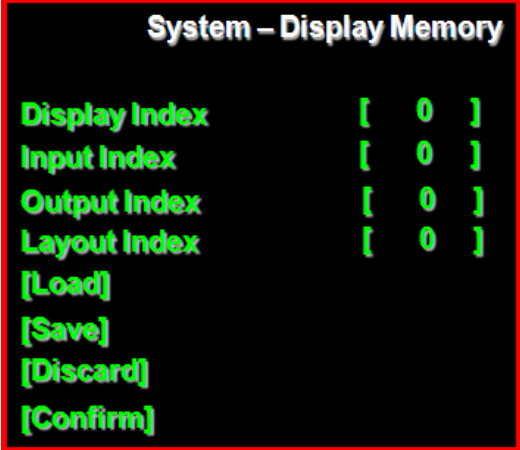
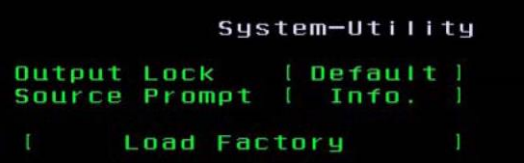
		Mode 5	Adjust the Gamma mode 5
	Color Mode (LED Lamp)	Brilliant	The best LED color gamut
		Vivid	This function is available in certain models only
		Normal	Normal color gamut
	Light Mode (Laser)	HL	110% laser power
		Normal	95% laser power
		ECO	75% laser power
	Color Temp. (LED Lamp)	9300K	
		8500K	
		7500K	
		6500K	
		3200K	
		9300K HL	Use 30% Overlap function
		8500K HL	Use 30% Overlap function
		7500K HL	Use 30% Overlap function
		6500K HL	Use 30% Overlap function
		3200K HL	Use 30% Overlap function
		User	Adjust Color Temp manually
		User HL	Adjust Color Temp manually
	Target Temp. (LED Lamp)	2200~9300K	This item can be changed only in “User Color Temp” mode
	ECO (LED Lamp)	Off	1.Reduce LED output power 2.Not functional in Ultra Bright Mode
		On	
Color- Lamp	Item	Value/ Selection	Description
Color - Lamp Lum Adj. [100]	Lum Adj.	30 ~ 100	Brightness adjustment: the lower limit is 30

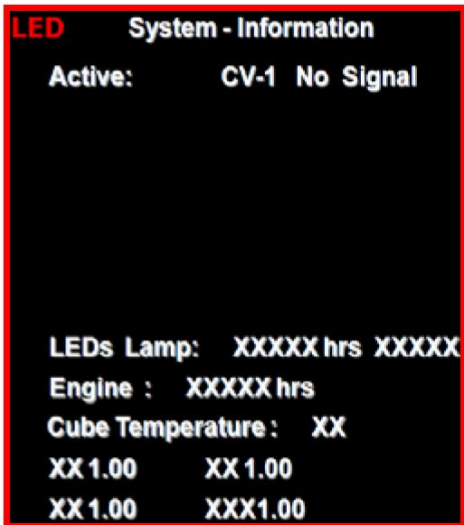
Color- Pattern	Item	Value/ Selection	Description
	Pattern Index	0 ~ 27	1. Adjust testing pattern. The upper limit of test picture value is for reference only. It varies with the FW adjustments. 2. Add Pattern (with effect of Gamma = 1) Number 200: Gray7 Number 201: Gray10 Number 202: Gray30 Number 203: Gray60 Number 204: Blue60 3. Pattern 109 : Ultra Mode (for LED Lamp models)
Signal-Main	Item	Value/ Selection	Description
 	Layout mode	Auto	1. This option can be changed in unit of "1" only when the Layout mode is set to Manual
		Manual	2. In case this option is set to Auto then it can be adjusted in unit of screen size, e.g. XGA is H = 1024 and V = 768
	H-Position	-32767~32767	Horizontal Height
	V-Position	-32767~32767	Vertical Height
	H-Size	1 ~ 32767	H Size
	V-Size	1 ~ 32767	V Size
	Layout Memory	NA	by enter to select , then Pop out the Layout Memory OSD
	Layout Index	0 ~ 63	
	Load	NA	
	Save	NA	
	Discard	NA	
	Confirm	NA	
Signal - Sub Window	Item	Value/ Selection	Description
	Source	DVI-1	DVI-1 signal
		DVI-2	DVI-2 signal
		HDMI-3	HDMI-3 signal
		HDMI-4	HDMI-4 signal
		VGA-5	VGA-5 signal
		RGB-6	RGB-6 signal

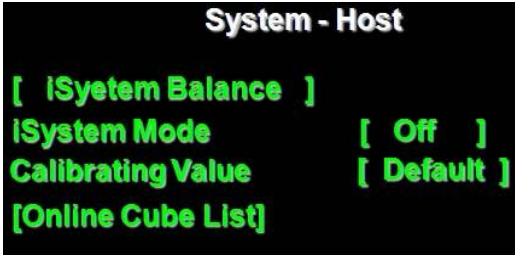
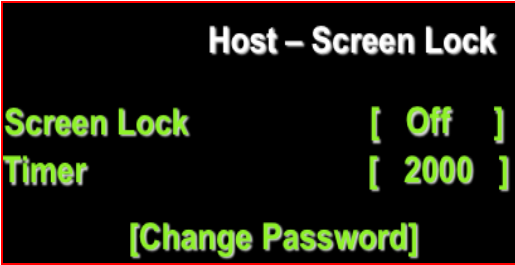
		CV-7	CV-7 signal
		SV-8	SV-8 signal
		Off	Switch source ON/OFF
	H-Position	-32767~32767	Horizontal Height
	V-Position	-32767~32767	Vertical Height
	H-Size	1 ~ 32767	H Size
	V-Size	1 ~ 32767	V Size
	Blending	0 ~ 16	Transparent display area
Signal- VGA/DVI	Item	Value/ Selection	Description
Signal - VGA/DVI Brightness 0 Contrast 0 R Offset 0 B Offset 0 R Gain 0 B Gain 0 Frequency 0 Phase 0 H-Start 0 V-Start 0 [Auto Gain] [Auto Tracking]	Brightness	-64 ~ 63	Adjust the brightness of the source (VGA/DVI)
	Contrast	-64 ~ 63	Adjust the contrast of the source (VGA/DVI)
	R Offset	-64 ~ 63	Adjust the offset for deep R, G area of source (VGA/DVI)
	B Offset	-64 ~ 63	Adjust the offset for deep B, G area of source (VGA/DVI)
	R Gain	-64 ~ 63	Adjust the offset for light R, G area of source (VGA/DVI)
	B Gain	-64 ~ 63	Adjust the offset for light B, G area of source (VGA/DVI)
	Frequency	-64 ~ 63	Adjust RGB/VGA signal sampling frequency
	Phase	-16 ~ 16	Adjust RGB/VGA signal sampling phase
	H-Start	-128 ~ 127	Adjust H-Start position of the signal (VGA)
	V-Start	-128 ~ 127	Adjust V-Start position of the signal (VGA)
	Auto Gain	NA	Auto tune of R/B Offset, R/B Gain, Brightness, Contrast (VGA)
	Signal- Video	Item	Value/ Selection
	Brightness	-64 ~ 63	Adjust the brightness of the source
	Contrast	-64 ~ 63	Adjust the contrast of the source
	R Offset	-64 ~ 63	Adjust the offset for deep R, G area of source
	B Offset	-64 ~ 63	Adjust the offset for deep B, G area of source
	R Gain	-64 ~ 63	Adjust the offset for light R, G area of source
	B Gain	-64 ~ 63	Adjust the offset for light B, G area of source
	Saturation	-64 ~ 63	Adjust the saturation of the source color

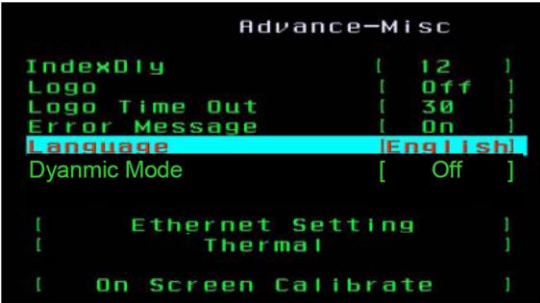
Signal - Video Brightness 10 Contrast -10 R Offset 0 B Offset 0 R Gain 0 B Gain 0 Saturation 0 Hue 0 H-Start 0 V-Start 0 [Auto Gain] [Advance]	Hue	-64 ~ 63	Adjust the hue of the source
	H-Start	-128 ~ 127	Adjust H-Start position of the signal
	V-Start	-128 ~ 127	Adjust V-Start position of the signal
	Auto Gain		Auto tune of Brightness, Contrast
	Advance		
	Video Standard	Auto	Adjust the signal standard for the source video
		NTSC	Mostly used in adjusting the signal standard for the source video in USA, Taiwan, Japan
		NTSC4.43	
		PAL	Mostly used in Europe and Mainland China
		PAL-N	
		PAL-M	
		SECAM	

System - InMem	Item	Value/ Selection	Description
System – Input Memory Input Index [0] [Load] [Save] [Discard] [Confirm]	Input Index	0 ~ 255	Set up input settings (Memory in Control)
	Load		Load
	Save		Storage
	Discard		Discard
	Confirm		Confirm
System - OutMem	Item	Value/ Selection	Description
System – Output Memory Output Index [0] [Load] [Save] [Discard] [Confirm]	Output Index	0 ~ 15	Set up output settings (Memory in engine)
	Load		Load
	Save		Storage
	Discard		Discard
	Confirm		Confirm
System - DisMem	Item	Value/ Selection	Description
	Display Index	0 ~ 511	Display parameters (input + output)
	Input Index	0 ~ 255	Input index value
	Output Index	0 ~ 15	Output index value

	Layout Index	0 ~ 63	Layout index value
	Load		Load
	Save		Storage
	Discard		Discard
	Confirm		Confirm
System - Utility	Item	Value/ Selection	Description
	Output Lock	Default	Set the output time
		60Hz	
	Source Prompt	Info.	Enable the input source prompt
		All Off	Disable all the input signal prompt
		No Signal	Prompt "No Signal ..." message only when primary input signal is lost
	Auto Position	Off	Set the auto search of best position when capturing input signals, used for RGBHV/VGA
		On	
	Auto Position HdMI3	Off	Used for HDMI loop through digital signals
		On	
	Overscan	Off	Overscan is only used for 1080i/NTSC/PAL/SECAM analog signals
		On	
	Auto Switch	Off	When CU has detected no signal, the behavior pattern is as follows 1. Do not show No Signal, and perform auto switch 2. Switch loop behavior (up to 2 times in the same group) 3. HDMI / VGA and DVI have the same behavior
		On	
	Cube Fan	0~99	Adjust the rotation speed of the fan of the case
	Internal DVI-EQ	0~12	Adjust the receiving capability of optical DVI input; the range varies depending on the optical engine This function is available in certain models only
		0~2	
	Internal DVI-EQ	Normal	This function is available in certain models only
		Advanced	
	DVI-EQ Mode	Auto	This function is available in

		Manual	certain models only
	DVI-EQ Data	16.5 dB	It can be adjusted when the DVI-EQ Mode is set to Manual
		14 dB	
		12 dB	
		10.5 dB	
		8.5 dB	
		6.5 dB	
		4.5 dB	
		0 dB	
	DVI-EQ CLK	3 dB	It can be adjusted when the DVI-EQ Mode is set to Manual
		1.5 dB	
		0 dB	
	TV Distortion		For LE-Uxx / LE-Txx
	Up	0~7	
	Left	0~7	
	Down	0~7	
	Right	0~7	
	Load Factory	NA	
System- Information		Item	Value/ Selection
	Active	NA	Display the source information on the video played
	Sub Win	NA	Display the source information on the video of sub window
	LEDs Lamp (LED)	NA	Display use time and frequency of LED lamp
	Laser	NA	Display laser use duration
	Color Wheel	NA	Color wheel use life
	Engine	NA	Light Engine use life
	Cube Temperature	NA	Body temperature, two digits for ENV Temp
	CU FW Ver.	NA	Firmware version of Control unit
	Engine FW Ver.	NA	Engine firmware version
	DLP FW Ver.	NA	DLP firmware version
System - Host		Item	Value/ Selection
			Description

  	iSystem Balance	NA	Trigger iSystem Balance
		NA	
	iSystem Mode (LED)	Off	1. The Auto/Manual option turns on the Adaptive mode which will determine color coordinates of target values based on color gamut of connected engine (LED Series) 2. Auto option checks the change of each engine's brightness every 10 minutes; when the change is more than 5%, it runs the brightness balance function (iSystem Balance must be performed previously) 3. When iSystem mode is selected as [Manual] or [Auto], Color Mode will be locked as [Brilliant] and grayed
		Manual	
		Auto	
	iSystem Mode (Laser)	Off	1. Auto option checks the change of each engine's brightness every 10 minutes; when the change is more than 5%, it runs the brightness balance function (iSystem Balance must be performed previously) 2. When Intelligent mode is set to Auto/Manual, Projector mode can only be set to Normal or Economic mode . However, Brightness cannot be selected 3. This function is available only to engines with the intelligent system
		Manual	
		Auto	
	Calibrating Value (LED)	Default	1. After selected, the corresponding calibrating values come into effect only if the "iSystem Balance" is performed manually (LED series must be reboot first) 2. Default - use the factory calibrating values of CL200 directly if no HOST is connected. 3. This option is dimmed and cannot be selected in case the iSystem is set to Off. This option is valid only in Auto or Manual mode
		On Screen	
	Screen Lock		This option only display after entering 5544465 in the Host CU
	Screen Lock	Off	When the time is up, the screen will be locked as no picture; enter password to unlock
		On	
	Timer	1~9999	Unit: hour(s) When the Screen Lock is enabled, it can't be set

	Change Password	NA	Change password
	Online Cube List	NA	Display status of connected Cube Brightness: Display brightness differences between connected Cube Target: Enable target values of iSystem function
Advance - Misc	Item	Value/ Selection	Description
  	IndexDly/ Phosphor IndexDly (Laser)	0~719	(Display Misc and OSD items described above)
	Aux	Off	Enable Aux mode
		On	
	Logo	Off	Enable or disable power on Logo
		On	
	Logo Time Out	30	Elapse time of power-on Logo
		45	
		60	
	Error Message	Off	1. Enable or disable error messages of fan and lamp MSG 2. If both fan and lamp failed then display the whole row concurrently 3. After other OSD screens disappear, the PROMPT displays until timeout 4. If the situation persists the display time of PROMPT will be re-defined 5. The ON status of LAMP will timeout in 10 minutes
		On	
	Language	Chinese	
		English	
	Dynamic Mode(LED)	Off	Enable Dynamic Mode
		On	
Network Setting	Ethernet	DHCP	Ethernet Settings Default IP address: 192.168.128.128
		IP Address	
		Subnet Mask	
		Gateway	
		Apply	
		Mac Address	

		Wi-Fi	Network Name	Wi-Fi Settings Network name: CU106 Default password: 12345678
			Change Password	
			Apply	
			Clear All User	
		Date & Time	Year	Date & Time Settings
			Month	
			Day	
			Hour	
			Minute	
			Apply	
	Input Mode Set			Select the input mode that required identification
	Mode 1	1400x1050 60Hz	1. Select the input mode that required identification 2.1920x1080 60Hz Intel Resolution only supports VGA/ RGBHV input port	
		1680x1050 60Hz		
	Mode 2	1920x1080 60Hz STD		
		1920x1080 60Hz Intel		
	Thermal (LE913/LE923/ LE933)	DMD Fan	The system is turned off or the Error Message is prompted in case of DMD Fan failure	
		PWR Fan	The system is turned off or the Error Message is prompted in case of PWR Fan failure	
		HP Fan	The system is turned off or the Error Message is prompted in case of Heat Pipe Fan failure	
		DMD Temp	DMD Temp	
		ENV Temp	Environment Temp	
	Thermal (Laser : LE-T10/ LE-T20/ LE-T30/ LE-U10/ LE-U20P/ LE-U40)	DMD Fan	The system is turned off or the Error Message is prompted in case of DMD Fan failure	
		PWR Fan	The system is turned off or the Error Message is prompted in case of PWR Fan failure	
		Laser Fan	The system is turned off or the Error Message is prompted in case of Laser Fan failure	
		LMP Fan	The system is turned off or the Error Message is prompted in case of LMP Fan failure (LED Model: LE-U10/ LE-U20P/ LE-U40)	

		Cube Fan	Adjust the rotation speed of the fan of the case
		DRV Fan	The system is turned off or the Error Message is prompted in case of DRV Fan failure
		DMD Temp	DMD Temp
		ENV Temp	Environment Temp
		A2D Temp	AC to DC power Temp
	On Screen Calibrate		
	Discard		Abandon
	Confirm		Confirm
	Extra Mode (Laser)	Off	Assist with color adjustment
		On	

11. Troubleshooting

Contact your dealer if problem persists.

11.1. Problems: No response from IR of the control unit

- Recommended solutions:
 - ◆ Ensure there is battery installed and is installed properly in the remote controller.
 - ◆ Ensure the connection wire between the IR device and control unit is securely connected and free from any damage.

11.2. Problems: The Optical Engine has no power and the LED replacement light is off

- Recommended solutions:
 - ◆ Please refer to the [Machine Installation] chapter and make sure all the wires are connected successfully

11.3. Problems: No light is illuminated when the Power button is pressed

- Recommended solutions:
 - ◆ Verify the correct connection of DVI cable to the machine core

11.4. Problems: No image is displayed when switching sources

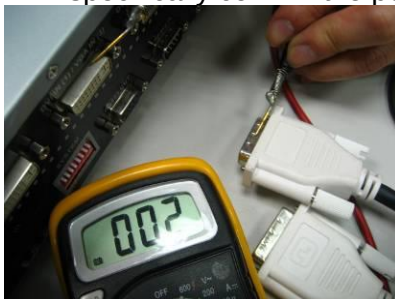
- Recommended solutions:
 - ◆ Verify that the signal and cable to the control unit is connected

11.5. Problems: How do I measure the potential difference

- Recommended solutions:
 - ◆ Use a multimeter and switch to the AC voltage for measurement



- ◆ Take measurements to observe any potential difference between device and cable (Please specifically confirm the potential difference within the required 10 V)



Measure the DVI cable

Appendix 1 Supported input mode

1. RGB

RGB Signal					Sync Type		
Resolution		Vertical Frequency (Hz)	Remark	Video Standard	RGBHV	GS	CS
640x480	640x480	60	VGA/RGB	VESA	V	NA	V
	640x480	75	VGA/RGB	VESA	V	NA	V
720x400	720x400	70	VGA/RGB	DOS	NA	NA	NA
800x600	800x600	60	VGA/RGB	VESA	V	NA	V
1024x768	1024x768	50	VGA/RGB		V	NA	V
	1024x768	60	VGA/RGB	VESA	V	NA	V
1280x720	1280x720	50	VGA/RGB	VESA	V	NA	V
	1280x720	60	VGA/RGB	VESA	V	NA	V
1280x800	1280x800	60	VGA/RGB	VESA	V	NA	V
1280x960	1280x960	60	VGA/RGB	VESA	V	NA	V
1280x1024	1280x1024	60	VGA/RGB	VESA	V	NA	V
1440x900	1440x900	60	VGA/RGB	VESA	V	NA	V
1400x1050	1400x1050	60	VGA/RGB	VESA	V	NA	V
	1400x1050	70	VGA/RGB	VESA	NA	NA	NA
1680x1050	1680x1050	60	VGA/RGB	VESA	V	NA	V
1600x1200	1600x1200	60	VGA/RGB	VESA	V	NA	V
1920x1080	1920x1080	60	VGA/RGB	VESA	V	NA	x
1920x1200	1920x1200	60	VGA/RGB	VESA	V	NA	V
1080P	1920x1080	50	VGA/RGB	YPbPr	NA	V	NA
	1920x1080	60	VGA/RGB	YPbPr	NA	V	NA
	1920x1080	30	VGA/RGB	YPbPr	NA	V	NA
1080i	1920x540	50	VGA/RGB	YPbPr	NA	V	NA
	1920x540	60	VGA/RGB	YPbPr	NA	V	NA
720P	1280x720	50	VGA/RGB	YPbPr	NA	V	NA
	1280x720	60	VGA/RGB	YPbPr	NA	V	NA
576P	768x576	50	VGA/RGB	YPbPr	NA	V	NA
480P	720x483	60	VGA/RGB	YPbPr	NA	V	NA

2. DVI

DVI Signal				
Resolution		Vertical Frequency (Hz)	Remark	Video Standard
640x480	640x480	60	DVI/HDMI	VESA
	640x480	75	DVI/HDMI	VESA
720x400	720x400	70	DVI/HDMI	DOS
800x600	800x600	60	DVI/HDMI	VESA
1024x768	1024x768	50	DVI/HDMI	
	1024x768	60	DVI/HDMI	VESA
1280x800	1280x800	60	DVI/HDMI	VESA
1280x960	1280x960	60	DVI/HDMI	VESA
1280x1024	1280x1024	60	DVI/HDMI	VESA
1440x900	1440x900	60	DVI/HDMI	VESA
1400x1050	1400x1050	60	DVI/HDMI	VESA
	1400x1050	70	DVI/HDMI	VESA
1680x1050	1680x1050	60	DVI/HDMI	VESA
1600x1200	1600x1200	60	DVI/HDMI	VESA
1920x1200	1920x1200	60	DVI/HDMI	VESA
1080P	1920x1080	50	DVI/HDMI	RGB/YUV format
	1920x1080	60	DVI/HDMI	RGB/YUV format
	1920x1080	30	DVI/HDMI	RGB/YUV format
1080i	1920x540	50	DVI/HDMI	RGB/YUV format
	1920x540	60	DVI/HDMI	RGB/YUV format
720P	1280x720	50	DVI/HDMI	RGB/YUV format
	1280x720	60	DVI/HDMI	RGB/YUV format
576P	720x576	50	DVI/HDMI	RGB/YUV format
480P	720x483	60	HDMI	YUV format