

CU403 Installation and Technical Manual

[Note] The Photos of Light Engine and Control Unit in this manual are for reference only. The items may be different in actual package.

Content

1. SETTINGS DIP SWITCH.....	2
1.1. Setting SYSTEM DIP SWITCH	2
1.2. Setting ID DIP SWITCH	2
2. PRELIMINARY TEST.....	3
3. INTRODUCTION LED INDICATOR.....	3
4. SCREEN MENU	4
5. INPUT MODE SUPPORTED	18
5.1. RGB	18
5.2. DVI	20

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1. Settings DIP SWITCH

1.1. Setting SYSTEM DIP SWITCH

Setting the first cube and last cube of RS485. XGA and SXGA+ will be adjusted automatically; no setting is required.



<Note> System on the right: Provides system setting and debug mode. The white part refers to the dip position.

Setting of the first DLP Projection Engine of RS485 This one is known as the Host	Setting of the last DLP Projection Engine of RS485 This one is known as the Last

1.2. Setting ID DIP SWITCH

Define the ID number (identification address) of each individual DLP Projection Engine.



<Notice>The limitation of setting

- ※The Host ID number must be set to 000.
- ※The ID numbers must be continuous without skipping. 000 → 001 → 002 →...
- ※The maximum of ID number is 255

1.2.1.1. Recommended ID number setting sequence (the blue arrow indicates the direction of serial connection of RS-485). A 3x8 DLP Projection Engine is used as an example below:

Monitor 1 ID No. 000	Monitor 2 ID No. 001	Monitor 3 ID No. 002	Monitor 4 ID No. 003	Monitor 5 ID No. 004	Monitor 6 ID No. 005	Monitor 7 ID No. 006	Monitor 8 ID No. 007
Monitor 9 ID No. 015	Monitor 10 ID No. 014	Monitor 11 ID No. 013	Monitor 12 ID No. 012	Monitor 13 ID No. 011	Monitor 14 ID No. 010	Monitor 15 ID No. 009	Monitor 16 ID No. 008
Monitor 17 ID No. 016	Monitor 18 ID No. 017	Monitor 19 ID No. 018	Monitor 20 ID No. 019	Monitor 21 ID No. 020	Monitor 22 ID No. 021	Monitor 23 ID No. 022	Monitor 24 ID No. 023

2. Preliminary test

- 2.1. Turn on the CU switch
- 2.2. Start with the remote
- 2.3. Confirm whether the screen is normal
- 2.4. Confirm whether the LED light shows 『A0』

3. Introduction LED Indicator



Code	Display status	Code	Display status
A0	CU Standby.	05	BRN Fan stops working.
A1	Activate.	06	LP Fan stops working.
A2	Igniting.	07	BLA (Ballast A) Fan stops working.
A3	Lamp is working properly (power on).	08	BLB (Ballast B) Fan stops working.
A4	Waiting for lamp cooling when the power is turned off.	09	DMD Fan stops working.
A5	Failure to ignite the light; ignite the light again	0A	DLP Fan stops working.
A6	Firmware is updating (Master).	0b	The double lamp system is not on the ignition position. It gets stuck when switching to Lamp A.
A7	CU and engine are searching.	0C	The double lamp system is not on the ignition position. It gets stuck when switching to Lamp B.
00	Lamp A fails	0d	The double lamp system stops at original position. It gets stuck when switching to Lamp A.
01	Lamp B fails	0E	The double lamp system stops at original position. It gets stuck when switching to Lamp B.
02	Lamp A suddenly goes out while working.	0F	CW is not rotating properly in ignition program.
03	Lamp B suddenly goes out while working.	10	IRIS initiation (to find Home point) fails.
04	PWR (Power) Fan stops working.		

4. Screen Menu

Press the “Menu” key of the remote to call out the screen menu.

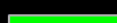
Color:	Signal:	System:
[Uniformity]	[MainWin1]	[InMem]
[ColorAdj]	[MainWin2]	[OutMem]
[Projection]	[OpWin1]	[DisMem]
[Lamp]	[OpWin2]	[ImageMem]
[Pattern]	[VGA/DVI]	[Utility]
	[Video]	[Info.]
		[Host]
Advance:		
[Misc]		
[Service]		

<Note> The adjustment value and default value are available from Lumens upon request

Color - Color Adj.	Item	Value/Selection	Description
Color - Color Adj. R-R [0] C-C [512] R+G [0] G-C-B [512] R+B [0] M-M [512] G-G [0] B-M-R [512] G+R [0] Y-Y [512] G+B [0] R-Y-G [512] B-B [0] R Curve [0] B+R [0] G Curve [0] B+G [0] B Curve [0] W-W [512] W-R [0] W-G [0] W-B [0]	R-R	-127 ~ 0	Reduces the brightness of pure red
	R+G	0 ~ 1023	Increases green in pure red
	R+B	0 ~ 1023	Increases blue in pure red
	G-G	-127 ~ 0	Reduces the brightness of pure green
	G+R	0 ~ 1023	Increases red in pure green
	G+B	0 ~ 1023	Increases blue in pure green
	B-B	-127 ~ 0	Reduces the brightness of pure blue
	B+R	0 ~ 1023	Increases red in pure blue
	B+G	0 ~ 1023	Increases green in pure blue
	W-W	0 ~ 1023	Adjusts the white saturation
	W-R	0 ~ 1023	Reduces red in pure white
	W-G	0 ~ 1023	Reduces green in pure white
	W-B	0 ~ 1023	Reduces blue pure white
	C-C	0 ~ 1023	Adjusts the cyan saturation
	C+R	0 ~ 1023	Increases red in pure cyan
	G-C-B	0 ~ 1023	Adjusts the ratio of blue and green in cyan

	M-M	0 ~ 1023	Adjusts the magenta saturation
	M+G	0 ~ 1023	Increases green in pure magenta
	B-M-R	0 ~ 1023	Adjusts the ratio of red and blue in magenta
	Y-Y	0 ~ 1023	Adjusts the yellow saturation
	Y+B	0 ~ 1023	Increases blue in pure yellow
	R-Y-G	0 ~ 1023	Adjusts the ratio of red and green in yellow
	R Curve	-64 ~ 64	Adjusts the red components in grey
	G Curve	-64 ~ 64	Adjusts the green components in grey
	B Curve	-64 ~ 64	Adjusts the blue components in grey
	128W+G	-2~2	Adjust G element in gradation; use pattern 107
	128W+B	-2~2	Adjust B element in gradation; use pattern 107
Color – Projection			
Color - Projection Orientation [HV Flip] Gamma [Mode1] Color Mode [Brilliant] Color - Projection Orientation [HV Flip] Gamma [Mode1] Color Mode [Brilliant] Color Temp. [6500K] Target Temp. [7500K]	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	Mode1	Adjusts gamma mode 1
		Mode2	Adjusts gamma mode 2
		Mode3	Adjusts gamma mode 3
	Color Mode	Brilliant	UHP: High Light Mode LED: Optimum LED color gamut
		Normal	UHP: Non High Light Mode LED: EBU color gamut
	Light Mode (Laser)	HL	110% laser power
		Normal	95% laser power
		ECO	75% laser power
	Color Temp (LED Lamp Models)	9300K	
		7500K	EBU
		6500K	EBU

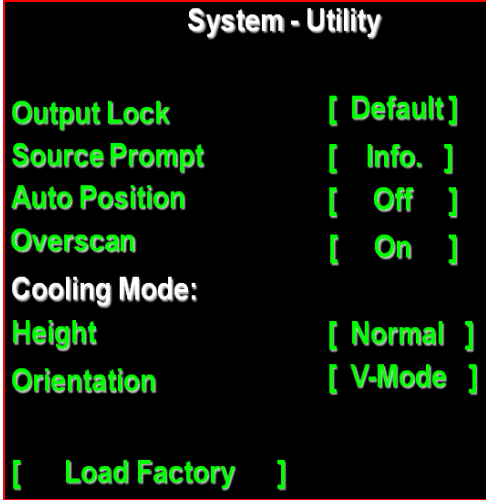
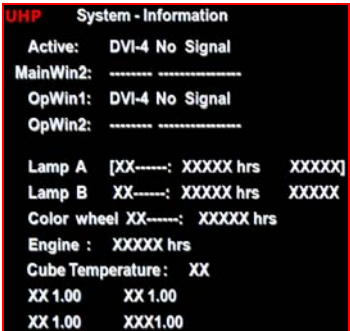
		3200K	EBU
		9300K HL	Use 30% of Overlap function (Only apply to LE9X3 models)
		7500K HL	Use 30% of Overlap function
		6500K HL	Use 30% of Overlap function
		3200K HL	Use 30% of Overlap function
		User	Manually adjust the color temperature
		User HL	Manually adjust the color temperature
	Target Temp	2200~9300K	Modifiable only when the Color Temp is set to User
	ECO (LED Lamp Models)	Off	Reduce LED output power
		On	
Color - Lamp	Item	Value/Selection	Description
Color - Lamp Lamp SW [Lamp A] Step Tune [0] Lamp Power [5] Lum Adj. [100]	Lamp SW(UHP)	Lamp A	Selects Lamp A
		Lamp B	Selects Lamp B
	Step Tune(UHP)	-15 ~ +15	Lamp wick position adjustment
	Lamp Power(UHP)	0 ~ 5	Power consumption adjustment
	Lum Adj.	30 ~ 100	Brightness adjustment. The minimum value for adjustment is 30.
Color - Pattern	Item	Value/Selection	Description
Color - Pattern Pattern Index [0]	Pattern Index	0 ~ 27	1. Adjusts the test pattern. The maximum value of the test pattern will be changed as the FW is adjusted. It does not have to be taken into consideration. 2. Add Pattern (the effect of this Pattern is Gamma=1 No. 200: Gray7 No. 201: Gray10 No. 202: Gray30 No. 203: Gray60 No. 204: Blue60
Signal - Main Board Windows1	Item	Value/Selection	Description
	Layout mode	Auto	1. This option is adjustable on a 1-unit basis only as the Layout mode is Manual
		Manual	2. If this option is Auto, adjustment should be made based on the Cube size. For example, XGA will be H=1024 V=768.

Signal – Main Board Window 1 Layout Mode [Auto] H-Position  0 V-Position  0 H-Size  1024 V-Size  768 [Layout Memory] Layout - Layout Memory Layout Mem [0] [Load] [Save] [Discard] [Confirm]	H-Position	-32767~32767	Horizontal height
	V-Position	-32767~32767	Vertical height
	H-Size	1 ~ 32767	Horizontal Size
	V-Size	1 ~ 32767	Vertical Size
	Layout Memory	NA	Use this option to save/load the layout of screen.
	Layout Index	0 ~ 63	
	Load	NA	
	Save	NA	
	Discard	NA	
	Confirm	NA	
Signal - Main Board Windows2	Item	Value/Selection	Description
Signal – Main Board Window2 Source [Off] H-Position  50 V-Position  50 H-Size  200 V-Size  200 Blending  16	Source	Off	Signal source switch
		DVI-2	DVI signal
		DVI-3	DVI signal
		VGA-4	VGA signal
		VGA-5	VGA signal
		Copy	Copy the display image on big screen
	H-Position	-32767~32767	Horizontal height
	V-Position	-32767~32767	Vertical height
	H-Size	1 ~ 32767	Horizontal Size
	V-Size	1 ~ 32767	Vertical Size
	Blending	0 ~ 16	Transparent display area
Signal - Option Board Windows1	Item	Value/Selection	Description
Signal – Option Board Window1 Source [DVI-6] Fill Mode [Auto] H-Position  0 V-Position  0 H-Size  1024 V-Size  768	Source	HDMI-6	Select the signal source of the first option board
		RGB-7	
		CV -8	
		SV -9	
	Fill Mode	Auto Manual	Manually adjust the resolution of signal sources displayed on big screen
	H-Position	-32767~32767	Horizontal height

	V-Position	-32767~32767	Vertical height
	H-Size	1 ~ 32767	Horizontal Size
	V-Size	1 ~ 32767	Vertical Size
Signal - Option Board Windows2	Item	Value/Selection	Description
Signal - Option Board Window2 Source [Off] H-Position [500] V-Position [500] H-Size [200] V-Size [200] Blending [16]	Source	Off	Signal source switch
		CV-8	CV signal
		HDMI-6	HDMI signal
		RGB-7	RGB signal
		SV-9	S-Video signal
		Copy	
	H-Position	-32767~32767	Horizontal height
	V-Position	-32767~32767	Vertical height
	H-Size	1 ~ 32767	Horizontal size
	V-Size	1 ~ 32767	Vertical 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] [Advance]	Brightness	-64 ~ 63	Adjusts the signal source brightness
	Contrast	-64 ~ 63	Adjusts the signal source contrast
	R Offset	-64 ~ 63	Adjusts the offset of the red, green and dark area of the signal source
	B Offset	-64 ~ 63	Adjusts the offset of the blue, green and dark area of the signal source
	R Gain	-64 ~ 63	Adjusts the offset of the red, green and dark area of the signal source
	B Gain	-64 ~ 63	Adjusts the offset of the blue, green and light area of the signal source
	Frequency	-64 ~ 63	Adjusts the RGB/VGA signal sampling frequency
	Phase	-16 ~ 16	Adjusts the RGB/VGA signal sampling phase
	H-Start	-128 ~ 127	Adjust the horizontal start position of the signal
	V-Start	-128 ~ 127	Adjust the vertical start position of the signal
	Auto Gain	NA	Automatic adjustment R, B Offset, R, B Gain, Brightness, Contrast

	Auto Tracking	NA	Automatic adjustment H position V-position H-start V-start Frequency Phase
	Advance	DVI-EQ	DVI signal resource Wiring length parameter 1
		DVI-ST	DVI signal resource Wiring length parameter 2
Signal - Video	Item	Value/Selection	Description
	Brightness	-64 ~ 63	Adjusts the signal source brightness
	Contrast	-64 ~ 63	Adjusts the signal source contrast
	R Offset	-64 ~ 63	Adjusts the offset of the red, green and dark area of the signal source
	B Offset	-64 ~ 63	Adjusts the offset of the blue, green and dark area of the signal source
	R Gain	-64 ~ 63	Adjusts the offset of the red, green and light area of the signal source
	B Gain	-64 ~ 63	Adjusts the offset of the blue, green and light area of the signal source
	Saturation	-64 ~ 63	Adjusts the color saturation of the signal source
	Hue	-64 ~ 63	Adjusts the hue of the signal source
	H-Start	-128 ~ 127	Adjust the horizontal start position of the signal
	V-Start	-128 ~ 127	Adjust the vertical start position of the signal
	Auto Gain	NA	Automatic adjustment R, B Offset, R, B Gain, Brightness, Contrast
	Advance	NA	
	Noise Reduction	-16 ~ 16	
	Video Standard	Auto	Adjust the image signal standard for the signal source
		NTSC	Mostly used in USA, Taiwan and Japan. Adjust the image signal standard for the signal source
		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	Memory in Control
	Load	NA	Load
	Save	NA	Save
	Discard	NA	Discard
	Confirm	NA	Confirm
System – OutMem	Item	Value/Selection	Description
System – Output Memory Output Index [0] [Load] [Save] [Discard] [Confirm]	Output Index	0 ~ 31	Set the input parameter value
	Load	NA	Load
	Save	NA	Save
	Discard	NA	Discard
	Confirm	NA	Confirm
System - DisMem	Item	Value/Selection	Description
System – Display Memory Display Index [0] Input Index [0] Output Index [0] Layout Index [0] [Load] [Save] [Discard] [Confirm]	Display Index	0 ~ 511	Display parameter (Input + output)
	Input Index	0 ~ 255	Input index
	Output Index	0 ~ 31	Output Index
	Layout Index	0 ~ 63	Layout index
	Load	NA	Load
	Save	NA	Save
	Discard	NA	Discard
	Confirm	NA	Confirm
System - ImageMem	Item	Value/Selection	Description
System - ImageMem Image Mem Index [0] Input Mem Index [0] Layout Mem Index [0] [Load] [Save] [Discard] [Confirm]	Image Mem Index	0 ~ 255	
	Input Mem Index	0 ~ 255	
	Layout Mem Index	0 ~ 63	
	Load		Load
	Save		Save
	Discard		Discard
	Confirm		Confirm

System – Utility	Item	Value/Selection	Description
	Output Lock	Default	Output time setting
		60Hz	
	Source Prompt	Info.	Activates the input signal prompt
		All Off	Deactivates all input signal prompts
		No Signal	The prompt “No Signal...” only appears when the master input signal disappears
	Auto Position	Off	Setting “search the best position automatically” when capturing the input signal
		On	
	Overscan	Off	Whether to enable Overscan for Video signal
		On	
	Internal DVI-EQ	0~12	Adjust the DVI IN reception ability of the light engine Applicable with LED models
	Cooling Mode		Applicable to UHP and LE912/LE922
	Height	Normal	Cooling mode: Height or general flat land
		High	
	Orientation	H-Mode	When Height : High, Orientation is gray
		V-Mode	The vertical and horizontal orientation will be shown when the S5 engine is used, but only the vertical orientation will be shown if S6 and LED engine are used, and this option will not be available.
	Load Factory	NA	
Information	Item	Value/Selection	Description
	Active	NA	Displays the source information of the image being played
	MainWin2	NA	Display the image source information of the second main board
	OpWin1	NA	Display the image source information of the first option board
	OpWin2	NA	Display the image source information of the second option board
	Lamp A (UHP)	NA	Lamp service life
	Lamp B (UHP)	NA	Lamp service life

LED System - Information

Active: DVI-4 No Signal
 MainWin2: -----
 OpWin1: DVI-4 No Signal
 OpWin2: -----

LEDs Lamp: XXXXX hrs XXXXX
 Engine : XXXXX hrs
 Cube Temperature: XX
 XX 1.00 XX 1.00
 XX 1.00 XXX1.00

LEDs (LED)	NA	Displays the time and frequency of usage of LED.
Color Wheel(UHP)	NA	Color wheel service life
Laser (Laser)	NA	Laser life span
Engine	NA	Optical engine service life
Cube Temperature	NA	DMD, box temperature, Two numbers
CU Master FW Ver.	NA	The Master Control Unit firmware version. This version only shows English words and numbers.
CU Slave FW Ver.	NA	The Slave Control Unit firmware version. This Version only shows English words and numbers.
Engine Master FW Ver	NA	The Projector firmware version. This version only shows English words and numbers.
DLP FW Ver.	NA	DLP firmware version. This version no longer uses Checksum, but reads the TI Flash Version. The placement position replaces the position of the original Checksum. The basic format is XXX (x stands for an English letter) + 1.YY (YY are expressed in numbers, standing for the version).

System - Host	Item	Value/Selection	Description
System - Host Screen Lock 顯示與操作權限：5544465 [iSystem Balance] iSystem Mode [Off] Calibrating Value [Default] Auto Lamp SW [Off] Lamp SW Time [500] [Screen Lock] [Online Cube List] Lamp SW Count Host – Screen Lock Screen Lock [Off] Timer [2000] [Change Password]	iSystem Balance	NA	Trigger iSystem Balance.
	iSystem Mode (UHP)	Off	1. Auto/Manual is to turn on the adaptive mode. 2. The adaptive mode will determine the color coordinate of the target value depending on the color gamut of the connected engine. 3. When the Intelligent Mode is set to Manual/Auto, Color Mode will be set to Brilliant Color and greyed out.
		Manual	
		Auto	
	iSystem Mode (LED)	Off	Auto/Manual is to turn on the TI CCA automatic color temperature control function.
		Manual	Off is to turn off the TI CCA function to restore the LED color.
		Auto	
	Calibrating Value	Default	1. Selected calibrating values come

Online Cube List Page [0] IndexIDLumTarget ----- 10000xxxxxx 20001xxxxxx						into effect only after running the “iSystem Balance” software manually. (For LED series, please restart the device to activate the settings). 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				
	Auto Lamp SW (UHP)	Off				
		On				
	Lamp SW Time (UHP)	1 ~ 9999	unit=hrs			
	Screen Lock	NA	This option is available only when 5544465 is entered in the Host CU.			
	Screen Lock	Off	When the timer stops, the screen will be locked with no display. It can only be deactivated when the password is entered.			
		On				
	Timer	1~9999	Unit : Hour The setting option is not available when Screen Lock is on.			
	Change Password	NA	Change Password			
	Online Cube List (UHP/ LED/ Laser)	NA	- For UHP and LED series Displays the current status of connected Cube Lum: displays the current difference of brightness in each Cube Target: the target value to trigger functions of iSystem - For Laser series Show connected "Cube ID"			
	Lamp SW Count (UHP)	NA				
Advance - Misc	Item	Value/Selection	Description			
	IndexDly / Phosphor IndexDly	0~719	(Displays OSD items of Misc and above)			
	Aux	Off	Turns on the Aux mode			
		On				
	Logo	Off	Turns on or off the Boot Logo			
		ON				
	Logo Time Out	30	The duration that the Boot Logo will be displayed			
		45				

Advance - Misc IndexDly [12] Aux [Off] Logo [Off] Logo Time Out [30] Error Message [On] Language [English] Dynamic Mode [Off] [Ethernet Setting] [Input Mode Set] [Thermal] [On Screen Calibrate]		60	
	Error Message	Off	1 Turns on or off whether to display Fan and Lamp error MSG.
		ON	2 When the Error Message is set to OFF, the Error Message will be stopped from displaying on the 7-segment display of the control unit, and the System Error will not appear on the Panel 10/11.
	Language	Traditional Chinese	
		English	
	Dynamic Mode	Off	If you select the built-in Pattern 8 (all-black) after turning on this mode, the current will be decreased to minimum to obtain the measured maximum contrast
		ON	
	Ethernet Setting	NA	Turns on the network configuration option If the status of Ethernet function is Off, this option will be gray and unable to be selected. Turning on the Ethernet function is required to enable this option
	DHCP	Off	
		On	
Misc - Ethernet Setting DHCP [On] IP Address xxx.xxx.xxx.xxx Subnet Mask xxx.xxx.xxx.xxx Gateway xxx.xxx.xxx.xxx Apply	IP Address	192.168.128.128	1. After moving to this option, you can press up and down keys to move to other positions. 2. You can adjust the value by pressing the left or right key, or enter a value by using the number keys, and press Enter to confirm. The way of adjustment is the same as that for color parameters.
	Subnet Mask	XXX.XXX.XXX.XXX	1. After moving to this option, you can press up and down keys to move to other positions. 2. You can adjust the value by pressing the left or right key, or enter a value by using the number keys, and press Enter to confirm. The way of adjustment is the same as that for color parameters.
	Gateway	XXX.XXX.XXX.XXX	1. After moving to this option, you can press up and down keys to move to other positions. 2. You can adjust the value by pressing the left or right key, or enter a value by using the number keys, and press Enter to confirm. The way of adjustment is the same as that for color parameters.
	Apply	NA	
Misc – Input Mode Set Mode 1 [1400x1050 60Hz] Mode 2 [1920x1080 60Hz STD]			
Misc - Thermal BRN Fan:0 PWR Fan:0 LP Fan:0 DMD Fan:0 BLA Fan:0 BLB Fan:0 ADP Temp:0 DMD Temp:0 ENV Temp:0			

Misc - Thermal

DMD Fan:0
 A2D1 Fan:0
 A2D2 Fan:0
 HP Fan:0
 D2D1 Fan:0
 D2D2 Fan:0
 DRV1 Fan:0
 DRV2 Fan:0

DMD Temp:0
 ENV Temp:0
 A2D Temp:0
 D2D Temp:0

Misc - Thermal

DMD Fan:0
 DLP Fan:0
 PWR Fan:0
 HP Fan:0

DMD Temp:0
 ENV Temp:0

Input Mode Set	NA	Turns on Input Mode Set OSD
Mode 1	1400x1050 60Hz	Select Input mode required to be recognized. The Source will be redetected after the option has been switched.
	1680x1050 60Hz	
Mode 2	1920x1080 60Hz STD	
	1920x1080 60Hz Intel	
Thermal (UHP Model)	BRN Fan	Engine will not be shut down if Burner Fan is malfunctioned. Whether the Error message (only available for certain LE models) is displayed depends on the Error MSG setting.
	PWR Fan	Engine will not be shut down if Power Fan is malfunctioned. Whether the Error message is displayed depends on the Error MSG setting.
	LP Fan	Engine will be shut down if Lamp Fan is malfunctioned.
	DMD Fan	Engine will be shut down if DMD Fan is malfunctioned.
	BLA Fan	Engine will not be shut down if Ballast A Fan is malfunctioned. Whether the Error message is displayed depends on the Error MSG setting.
	BLB Fan	Engine will not be shut down if Ballast B Fan is malfunctioned. Whether the Error message is displayed depends on the Error MSG setting.
	ADP Temp	Adapter Board Temp
	DMD Temp	DMD Temp
	ENV Temp	Environment Temp
Thermal (LED: LE912/LE922)	DMD Fan	If DMD Fan is malfunctioned, the fan may be shut down or the Error Message may be displayed.
	A2D1 Fan	If AC to DC power Fan 1 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
	A2D2 Fan	If AC to DC power Fan 2 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
	HP Fan	If Heat Pipe Fan 2 is malfunctioned, the fan may be shut down or the Error Message may be displayed.

		D2D1 Fan	If DC to DC power Fan 1 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
		D2D2 Fan	If DC to DC power Fan 2 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
		DRV1 Fan	If LED Driver Fan 1 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
		DRV2 Fan	If LED Driver Fan 2 is malfunctioned, the fan may be shut down or the Error Message may be displayed.
		DMD Temp	DMD Temp
		ENV Temp	Environment Temp
		A2D Temp	AC to DC power Temp
		D2D Temp	DC to DC power Temp
	Thermal (LED: LE913/LE923/ LE933)	DMD Fan	Breakdown of DMD Fan will result in shutdown or Error Message
		PWR Fan	Breakdown of PWR Fan will result in shutdown or Error Message
		HP Fan	Breakdown of Heat Pipe Fan will result in shutdown or Error Message
		DMD Temp	DMD Temp
		ENV Temp	Environment Temp
	Thermal (Laser: LE-T10/LE-T20/ LE-T30/ LE-U10/ LE-U20P/ LE-U40)	DMD Fan	Breakdown of DMD Fan will result in shutdown or Error Message
		PWR Fan	Breakdown of PWR Fan will result in shutdown or Error Message
		Laser Fan	Breakdown of Laser Fan will result in shutdown or Error Message
		LMP Fan	Breakdown of LMP Fan will result in shutdown or Error Message
		Cube Fan	Adjust the speed of cube fan
		DRV Fan	Breakdown of DRV Fan will result in shutdown or Error Message
		DMD Temp	DMD Temp
		ENV Temp	Environment Temp

		A2D Temp	AC to DC power Temp
	On Screen Calibrate		
	Discard		Discard
	Confirm		Confirm
	Extra Mode (Laser)	Off	Color auxiliary adjustment mode
On			
Advance - Service	Item	Value/Selection	Description
Advanced - Service [Error] [Reset Lamp Use Time] [Reset Lamp Ignition Times] [Reset CW Use Time] [Reset Engine Use Time] [Control Unit Load Default] [Light Engine Load Default] [Read Sensor]	Error	Clear All Error	Password : 5544466
		Control Unit	
		Light Engine	(Displays OSD items of Service and above)
	Reset Lamp Use Time	NA	
	Reset Lamp Ignition Times	NA	
	Reset CW Use Time	NA	This item will not be displayed when LED models are used.
Service - Error Code [Clear All Error] Control Unit Light Engine --- --- --- --- --- --- --- ---	Reset Engine Use Time	NA	
	Control Unit Load Default	NA	
	Light Engine Load Default	NA	
	Color Sensor Models		
	Read sensor	Reset iSensor	Open Reset iSensor OSD; Read and show Color Sensor value
	Light Sensor Models		
W: xxx W: XXX XXX XXX / 0.XXX 0.XXX 0.XXX 0.XXX R: XXX XXX XXX / 0.XXX 0.XXX 0.XXX 0.XXX G: XXX XXX XXX / 0.XXX 0.XXX 0.XXX 0.XXX B: XXX XXX XXX / 0.XXX 0.XXX 0.XXX 0.XXX	Read sensor	Reset iSensor	Open Reset iSensor OSD; Read and show Light Sensor values
			Permission 5544466: Displays the absolute value of Light Sensor (only W).

5. Input mode supported

5.1. RGB

RGB Signal					Sync Type		
Resolution		Vertical Frequency (Hz)	Remark	Video Standard	RGBHV	GS	CS
640x480	640x480	60	VGA4/VGA5/RGB7	VESA	V	V	V
	640x480	67	VGA4/VGA5/RGB7	MAC	V	V	V
	640x480	72	VGA4/VGA5/RGB7	VESA	V	V	V
	640x480	75	VGA4/VGA5/RGB7	VESA	V	V	V
	640x480	85	VGA4/VGA5/RGB7	VESA	V	V	V
720x400	720x400	70	VGA4/VGA5/RGB7	DOS	NA	NA	NA
800x600	800x600	56	VGA4/VGA5/RGB7	VESA	V	V	V
	800x600	60	VGA4/VGA5/RGB7	VESA	V	V	V
	800x600	72	VGA4/VGA5/RGB7	VESA	V	V	V
	800x600	75	VGA4/VGA5/RGB7	VESA	V	V	V
	800x600	85	VGA4/VGA5/RGB7	VESA	V	V	V
1024x768	1024x768	50	VGA4/VGA5/RGB7		V	V	V
	1024x768	60	VGA4/VGA5/RGB7	VESA	V	V	V
	1024x768	70	VGA4/VGA5/RGB7	VESA	V	V	V
	1024x768	75	VGA4/VGA5/RGB7	VESA	V	V	V
	1024x768	85	VGA4/VGA5/RGB7	VESA	V	V	V
1152x864	1152x864	75	VGA4/VGA5/RGB7	VESA	V	V	V
1152x870	1152x870	75	VGA4/VGA5/RGB7	MAC	V	V	V
1280x720	1280x720	50	RGB7	VESA			
	1280x720	60	RGB7	VESA			
1280x800	1280x800	60	VGA4/VGA5/RGB7	VESA	V	V	V
1280x960	1280x960	60	VGA4/VGA5/RGB7	VESA	V	V	V
	1280x960	75	VGA4/VGA5/RGB7	VESA	NA	NA	NA
1280x1024	1280x1024	60	VGA4/VGA5/RGB7	VESA	V	V	V
	1280x1024	75	RGB7	VESA	V	V	V
	1280x1024	76	RGB7	Sun	V	V	V
	1280x1024	85	RGB7	VESA	V	V	V
1366x768	1366x768	60	VGA4/VGA5/RGB7	VESA	V	V	V
1440x900	1440x900	60	RGB7	VESA	V	V	V
1400x1050	1400x1050	60	VGA4/VGA5/RGB7	VESA	V	V	V
	1400x1050	70	RGB7	VESA	NA	NA	NA
	1400x1050	72	RGB7	VESA	NA	NA	NA

RGB Signal					Sync Type		
Resolution		Vertical Frequency (Hz)	Remark	Video Standard	RGBHV	GS	CS
	1400x1050	75	RGB7	VESA	V	V	V
1680x1050	1680x1050	60	RGB7	VESA	V	V	V
1600x1200	1600x1200	60	RGB7	VESA	V	V	V
1920x1080	1920x1080	60	RGB7	VESA	V	NA	NA
2048x1536	2048x1536	60	RGB7	VESA	V	NA	NA
1080P	1920x1080	50	RGB7	YPbPr	NA	V	NA
	1920x1080	60	RGB7	YPbPr	NA	V	NA
	1920x1080	30	RGB7	YPbPr	NA	V	NA
1080i	1920x540	50	RGB7	YPbPr	NA	V	NA
	1920x540	60	RGB7	YPbPr	NA	V	NA
720P	1280x720	50	VGA4/VGA5/RGB7	YPbPr	NA	V	NA
	1280x720	60	VGA4/VGA5/RGB7	YPbPr	NA	V	NA
576P	720x576	50	VGA4/VGA5/RGB7	YPbPr	NA	V	NA
480P	720x483	60	VGA4/VGA5/RGB7	YPbPr SOG	NA	V	NA

5.2. DVI

DVI Signal					Sync Type
Resolution		Vertical Frequency (Hz)	Remark	Video Standard	DVI
640x480	640x480	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	640x480	67	DVI1/DVI2/DVI3/HDMI6	MAC	V
	640x480	72	DVI1/DVI2/DVI3/HDMI6	VESA	V
	640x480	75	DVI1/DVI2/DVI3/HDMI6	VESA	V
	640x480	85	DVI1/DVI2/DVI3/HDMI6	VESA	V
720x400	720x400	70	DVI1/DVI2/DVI3/HDMI6	DOS	NA
800x600	800x600	56	DVI1/DVI2/DVI3/HDMI6	VESA	V
	800x600	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	800x600	72	DVI1/DVI2/DVI3/HDMI6	VESA	V
	800x600	75	DVI1/DVI2/DVI3/HDMI6	VESA	V
	800x600	85	DVI1/DVI2/DVI3/HDMI6	VESA	V
1024x768	1024x768	50	DVI1/DVI2/DVI3/HDMI6		V
	1024x768	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1024x768	70	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1024x768	75	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1024x768	85	DVI1/DVI2/DVI3/HDMI6	VESA	V
1152x864	1152x864	75	DVI1/DVI2/DVI3/HDMI6	VESA	V
1152x870	1152x870	75	DVI1/DVI2/DVI3/HDMI6	MAC	V
1280x800	1280x800	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
1280x960	1280x960	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1280x960	75	DVI1/DVI2/DVI3/HDMI6	VESA	NA
1280x1024	1280x1024	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1280x1024	75	DVI1/HDMI6	VESA	V
	1280x1024	76	DVI1/HDMI6	Sun	V
	1280x1024	85	DVI1/HDMI6	VESA	V
1366x768	1366x768	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
1440x900	1440x900	60	DVI1/HDMI6	VESA	V
1400x1050	1400x1050	60	DVI1/DVI2/DVI3/HDMI6	VESA	V
	1400x1050	70	DVI1/HDMI6	VESA	NA
	1400x1050	72	DVI1/HDMI6	VESA	NA
	1400x1050	75	DVI1/HDMI6	VESA	V
1680x1050	1680x1050	60	DVI1/HDMI6	VESA	V
1600x1200	1600x1200	60	DVI1/HDMI6	VESA	V

DVI Signal					Sync Type
Resolution		Vertical Frequency (Hz)	Remark	Video Standard	DVI
1080P	1920x1080	50	DVI1/HDMI6	RGB format	V
	1920x1080	60	DVI1/HDMI6	RGB format	V
	1920x1080	30	DVI1/HDMI6	RGB format	V
1080i	1920x540	50	DVI1/HDMI6	RGB format	V
	1920x540	60	DVI1/HDMI6	RGB format	V
720P	1280x720	50	DVI1/HDMI6	RGB format	V
	1280x720	60	DVI1/HDMI6	RGB format	V
576P	720x576	50	DVI1/HDMI6	RGB format	V
480P	720x483	60	DVI1/HDMI6	Same as 640x480	V