



Cube Remote AP User Manual - English

Table of Contents

1. Introduction	2
2. Device Requirements	2
3. Installing the Cube Remote AP	2
4. Setting the Cube Remote AP Connection	3
4.1. Large Screen Settings	3
4.2. Connecting to the CU106W Network	6
5. Using the Cube Remote AP	7
6. Operation Interface Description	9
6.1. Software screen introduction	9
6.2. Main Functions Screen [Color]	10
6.3. Main Functions Screen [SYSTEM]	11
6.4. Main Functions Screen [ADVANCED]	12
6.5. Detailed Color Function Descriptions: [Warp]	13
6.6. Detailed Color Function Descriptions: [Color adj.]	14
6.7. Detailed Color Settings: [Projection]	15
6.8. Detailed Color Function Descriptions: [Lamp]	16
6.9. Detailed Color Function Descriptions: [Pattern]	16
6.10. Detailed System Function Descriptions: [OutMem]	16
6.11. Detailed System Function Descriptions: [Utility]	17
6.12. Detailed System Function Descriptions: [Information]	17
6.13. Detailed System Function Descriptions: [Host]	18
6.14. Detailed Advanced Function Descriptions: [Misc]	19
6.15. Detailed Advanced Function Descriptions: [About]	19
7. Operating Procedures	20
8. Troubleshooting	21

1. Introduction

Cube remote AP is a large-screen adjustment software developed on the Android platform. Once installed, the large screen functions can be accessed using an Android mobile device or tablet.

2. Device Requirements

Android Device

- Android 4.0 or higher

Control Unit

- CU106W

USB Wireless Network Card

- EDIMAX EW-7711UAn

3. Installing the Cube Remote AP

1. Please download the **[Cube Remote AP]** in the agent section of the Lumen website.
2. Or obtain the **[Cube Remote AP]** via the Lumens FAE
3. Transfer the file from the PC to an Android tablet device. Tap on CU_Remote_AP.apk on the Android device to install the APP.
4. Once the APP is installed, the following icon will be available on the tablet device.

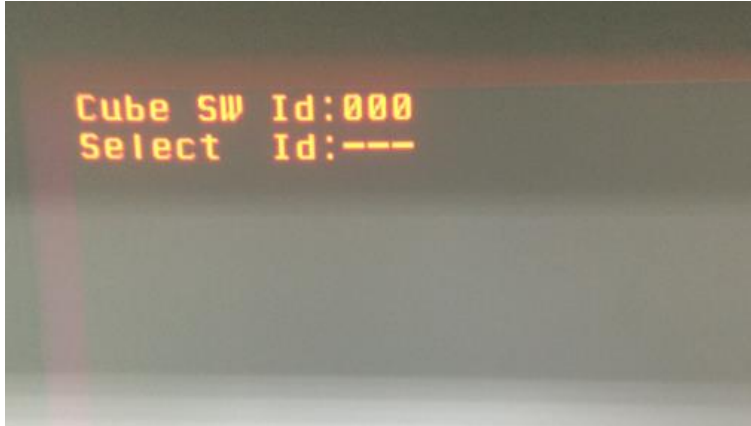


4. Setting the Cube Remote AP Connection

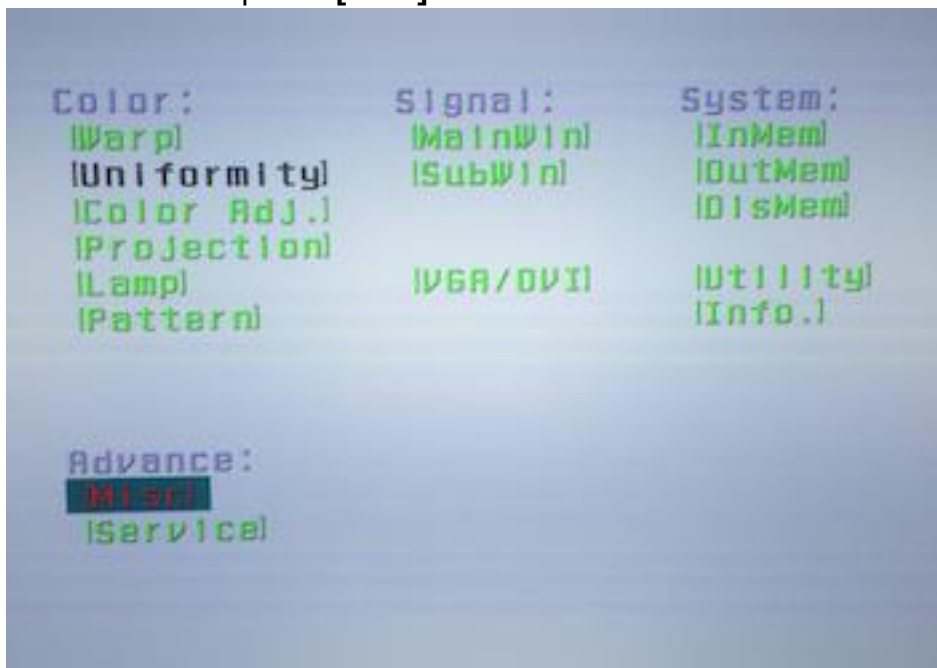
4.1. Large Screen Settings

Please refer to the [CU106W User Manual](#) for the instructions on various settings

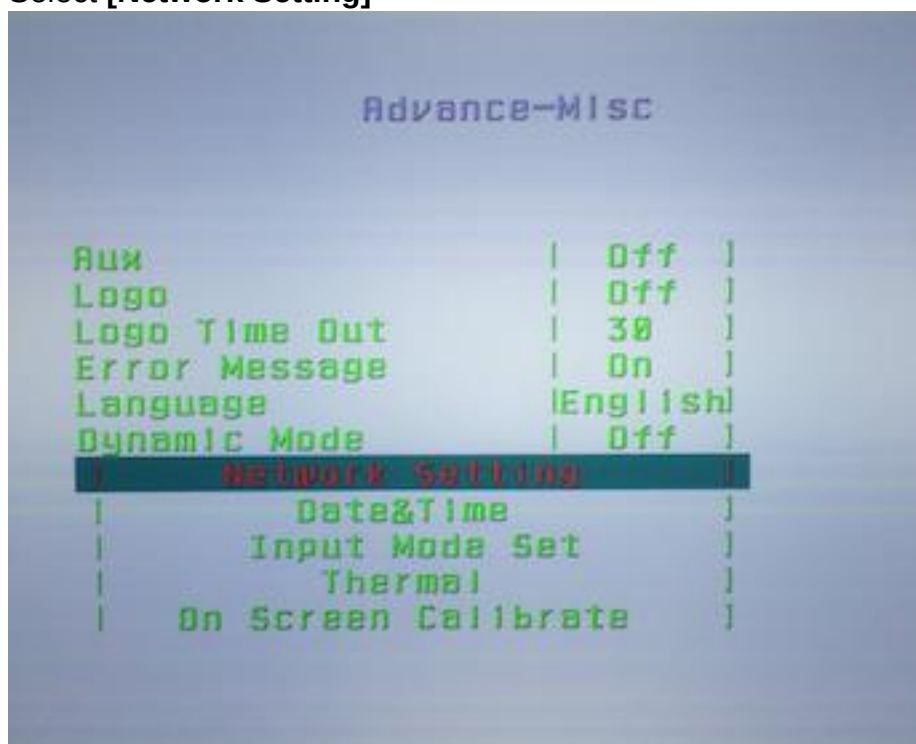
- ID Setting
 - DIP switch Setting
 - The Network setting procedures are as follows
1. Use the remote control to enter the following code: **5544466**



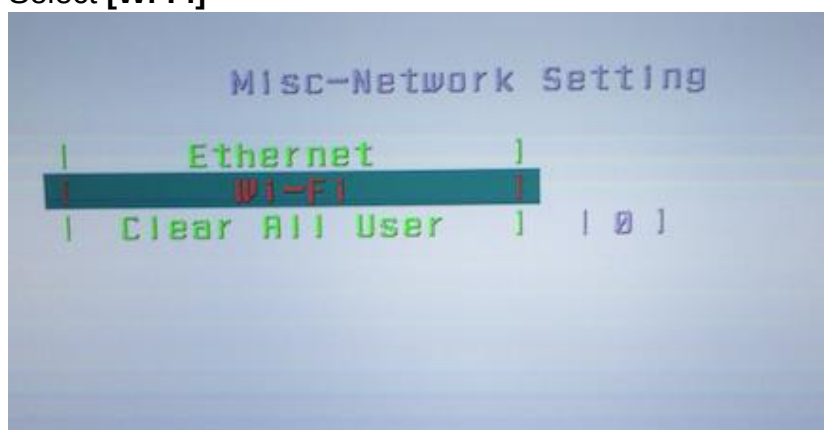
2. Enter the OSD options **[Misc]**



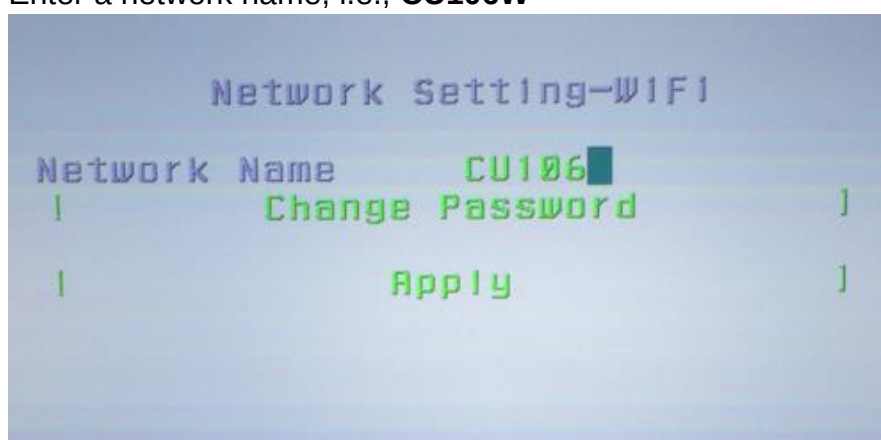
3. Select **[Network Setting]**



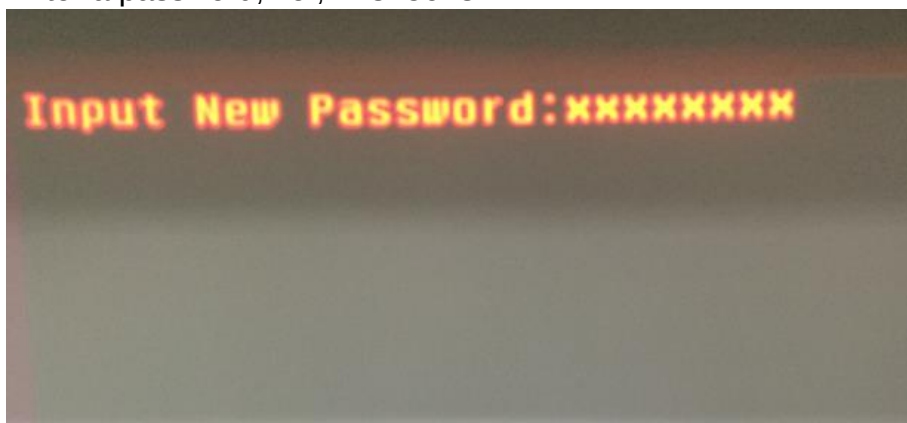
4. Select **[Wi-Fi]**



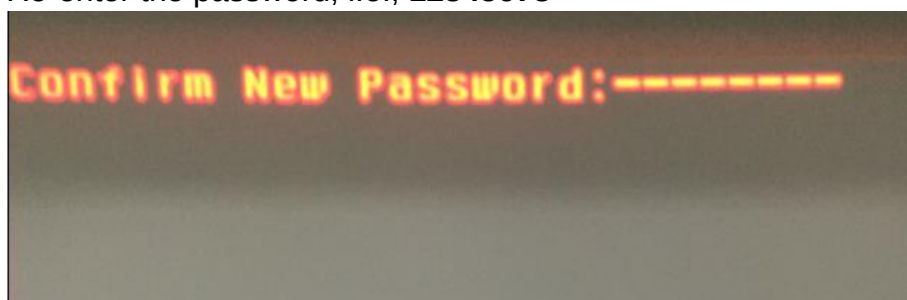
5. Enter a network name, i.e., **CU106W**



6. Enter a password, i.e., **12345678**.



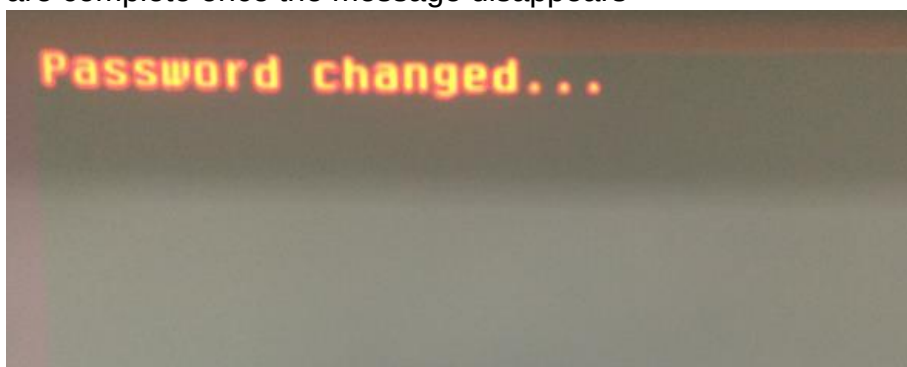
7. Re-enter the password, i.e., **12345678**



8. Once the network name and password are set, return to the **Network Setting-WiFi** and select **[Apply]**



9. The system prompts a **[Password changed...]** message. The CU106W Wifi settings are complete once the message disappears



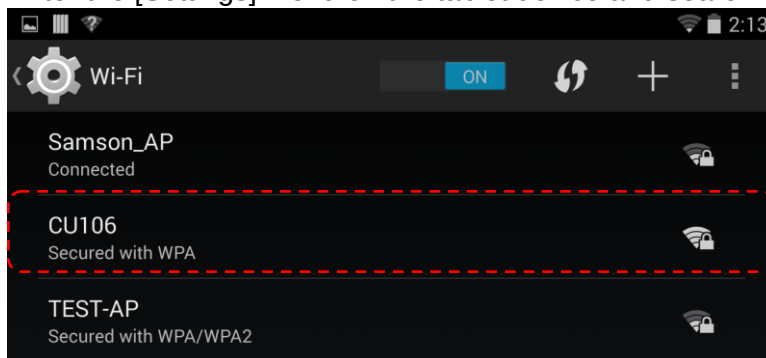
4.2. Connecting to the CU106W Network

4.2.1. Equipment requirements

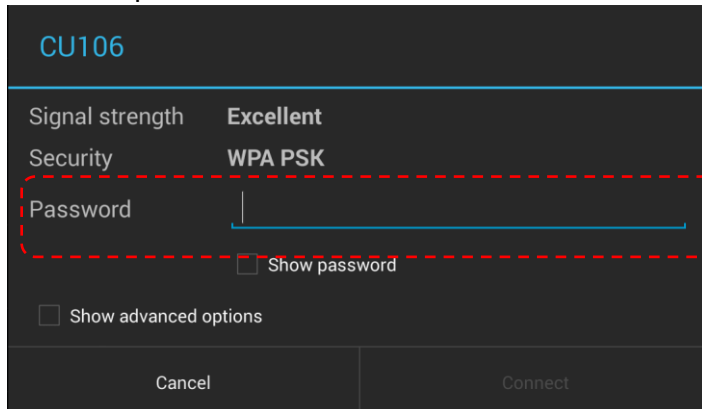
- EDIMAX EW-7711UAn USB wireless network card
- Tablet devices running Android 4.0 or higher

4.2.2. Ensure that the USB wireless network card is installed on the CU106W USB port and the status of the CU106W is on standby

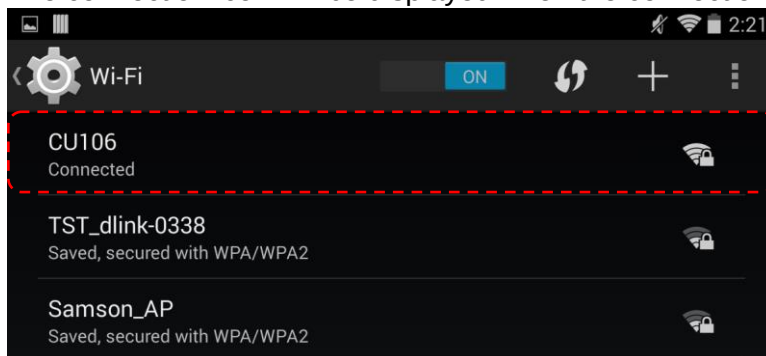
4.2.3. Enter the [Settings] menu on the tablet device and search for a wireless network device



4.2.4. Enter the password for the CU106W network



4.2.5. The connection icon will be displayed when the connection is successful

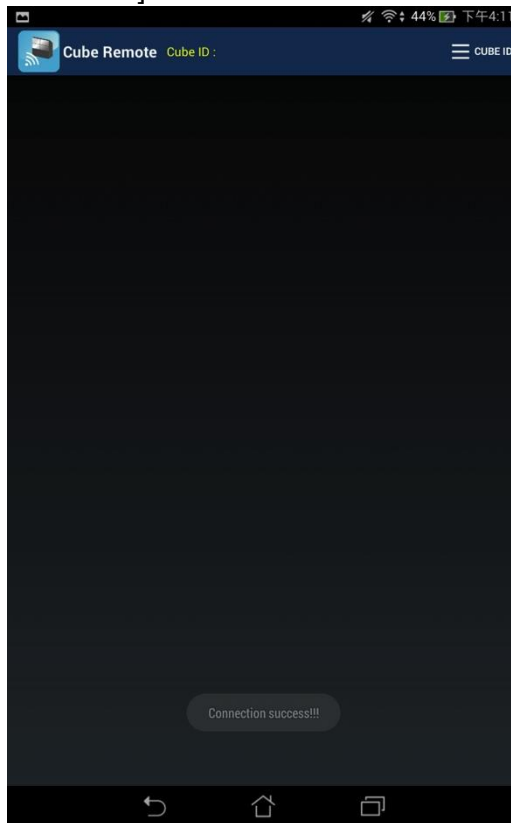


5. Using the Cube Remote AP

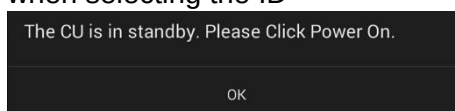
5.1. Double-click the [Cube Remote AP] icon to access Cube Remote AP.



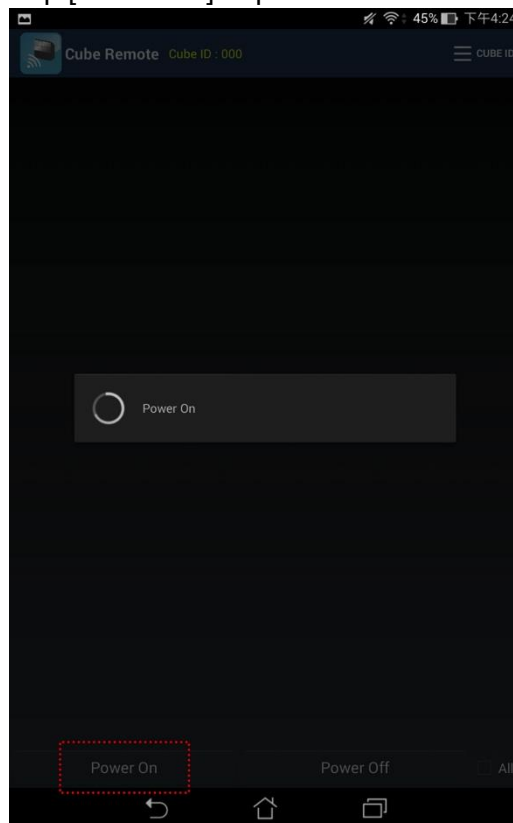
5.1.1. In the [Cube Remote AP] main screen, a message appears displaying [Connection success!!!]



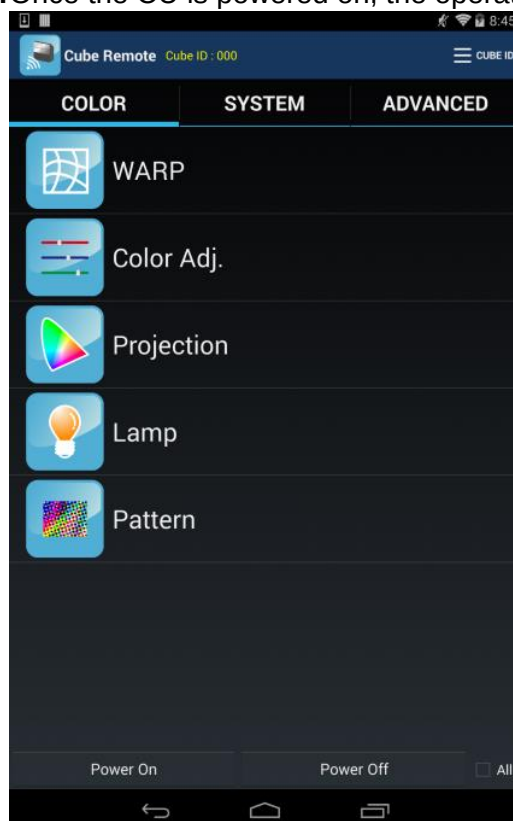
5.1.2. If the CU106W is on standby, [The CU is in Standby. Please Click Power On] is displayed when selecting the ID



5.1.3. Tap [Power On] to power on the CU.

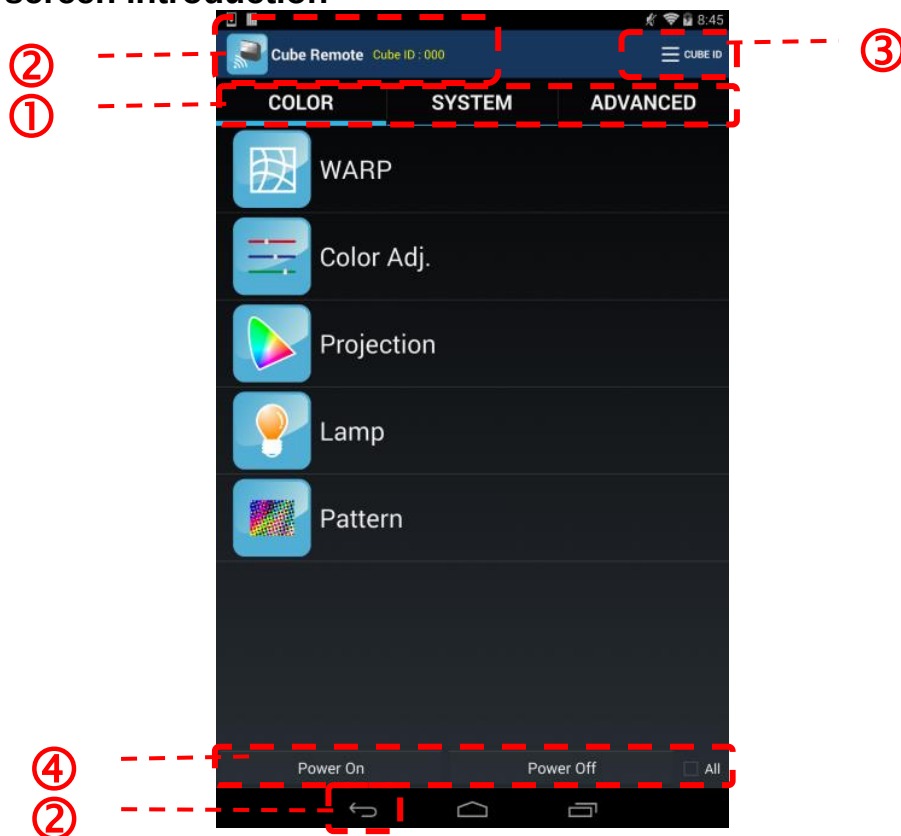


5.1.4. Once the CU is powered on, the operation screen is displayed



6. Operation Interface Description

6.1. Software screen introduction



1. Main Functions Screen [Color]/[SYSTEM]/[ADVANCED]

Tap on the functions on the menu bar to enter the functions screen



2. Return Key

Tap on the Cube Remote icon or the return key to go back to the previous function screen



3. Cube ID

When switching to a different Cube, the desired Cube must first be selected

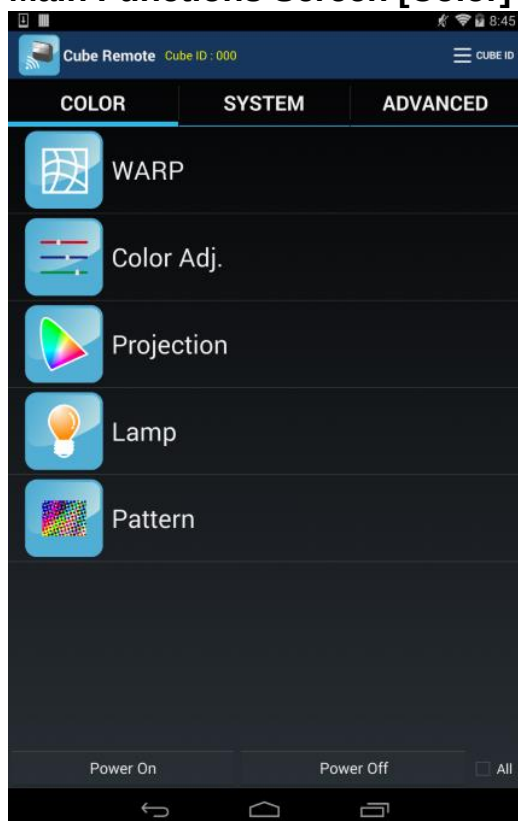


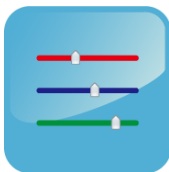
4. Power ON / Power Off / ALL

Activate or deactivate CU106W/activate or deactivate all CU106W at a time

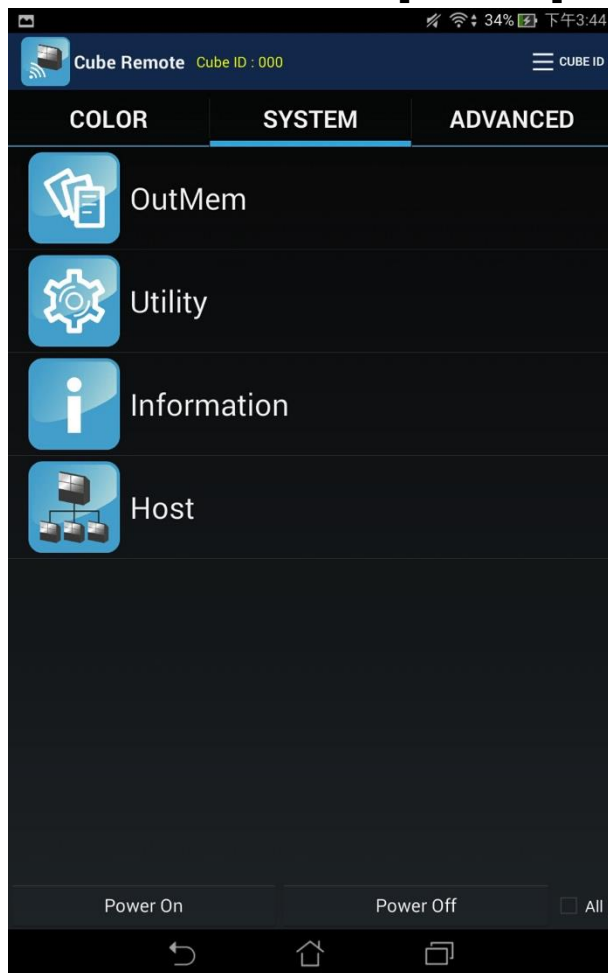


6.2. Main Functions Screen [Color]



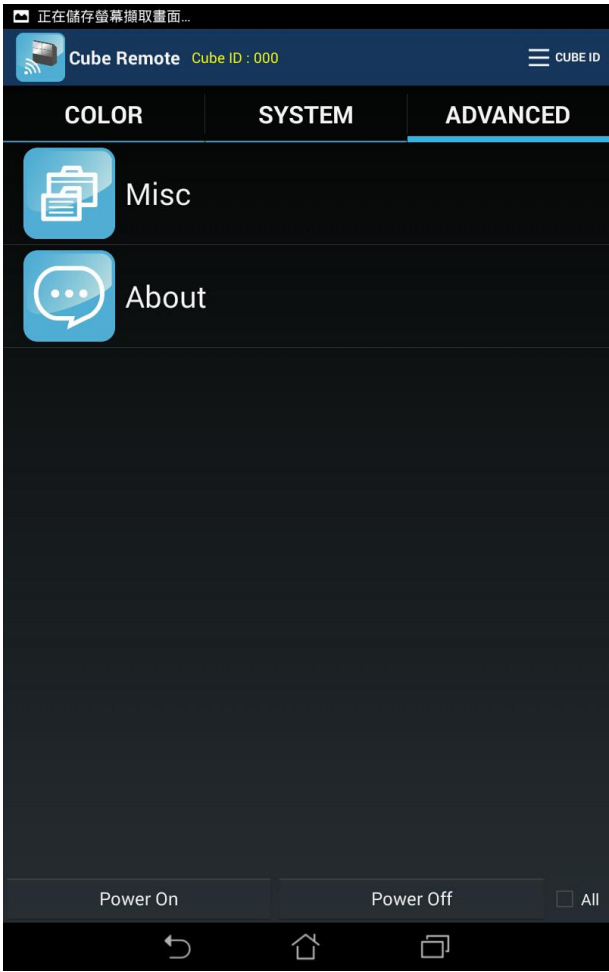
Icon	Function Descriptions
	[Warp]. Adjust the horizontal and/or vertical positions of the screen
	[Color Adj]. Adjust a single color (W, R, G, B, C, M, or Y)
	[Projection]. Adjust the rotation, optimization, color output mode, color temperature, and power-saving mode
	[Lamp] Electronically adjust the brightness of the lamp
	[Pattern] Select a template

6.3. Main Functions Screen [SYSTEM]



Icon	Function Descriptions
	[OutMem]. Save the values after adjustment
	[Utility]. Display source information and restore to default settings
	[Information] Display FW/LED information of the Engine and Control unit
	[Host] Smart adjustment and operation; confirm the number of Online Cubes

6.4. Main Functions Screen [ADVANCED]



I c o n	F u n c t i o n D e s c r i p t i o n s
	[Misc]. Advanced information; Error codes, language settings, and fan information
	[About]. Display Cube Remote AP version information

6.5. Detailed Color Function Descriptions: [Warp]

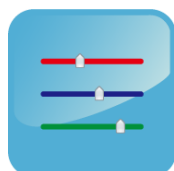


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Item	Value/Selection	Description
Top Left	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal and vertical position of the upper left point
Middle Left	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal position of the left middle point
Bottom Left	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal and vertical position of the lower left point
Top Center	(-300 ~ 300, -300 ~ 300)	Adjust the vertical position of the upper middle point
Center	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal and vertical position of the middle point
Bottom Center	(-300 ~ 300, -300 ~ 300)	Adjust the vertical position of the lower middle point
Top Right	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal and vertical position of the upper right point
Middle Right	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal position of the right middle point
Bottom Right	(-300 ~ 300, -300 ~ 300)	Adjust the horizontal and vertical position of the lower right point
Warp Reset	NA	Reset Warp parameter to default setting

6.6. Detailed Color Function Descriptions: [Color adj.]



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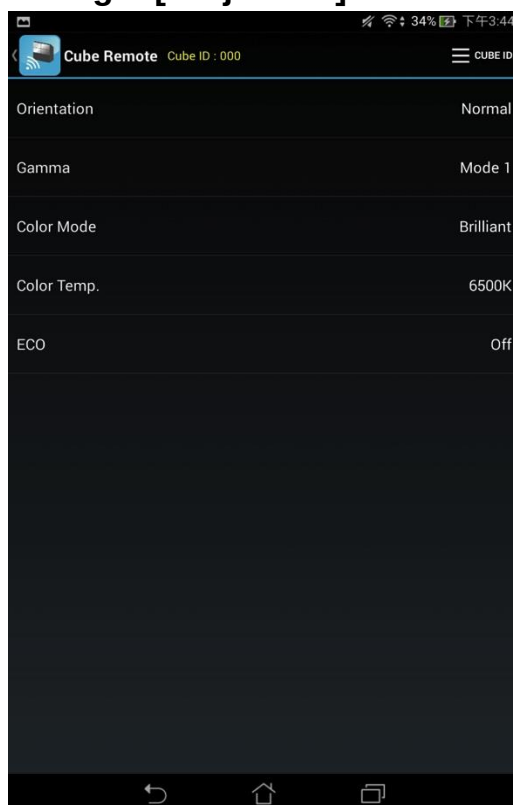
Item	Value/Selection	Description
R-R	-127 ~ 0	Reduce Brightness of pure red
R+G	0 ~ 1023	Increase green color in pure red
R+B	0 ~ 1023	Increase blue color in pure red
G-G	-127 ~ 0	Reduce Brightness of pure green
G+R	0 ~ 1023	Increase red color in pure green
G+B	0 ~ 1023	Increase blue color in pure green
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
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
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)
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6.7. Detailed Color Settings: [Projection]



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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	Mode1	Adjust the Gamma mode 1
	Mode2	Adjust the Gamma mode 2
	Mode3	Adjust the Gamma mode 3
Color Mode (LED)	Brilliant	Brilliant color gamut: Maintain original LED color Normal color gamut R x : 0.675 y : 0.310 G x : 0.317 y : 0.600 B x: 0.1499 y: 0.0336
	Normal	
Light Mode (Laser)	HL	110% laser power
	Normal	95% laser power
	ECO	75% laser power
Color Temp (LED).	9300K	
	7500K	
	6500K	
	3200K	
	9300K HL	Use 30% Overlap function
	7500K HL	Use 30% Overlap function
	6500K HL	Use 30% Overlap function

	3200K HL	Use 30% Overlap function
	User	Manual color temperature adjustment
	User HL	Manual color temperature adjustment
Target Temp (LED)	2200~9300K	Color temp. can only be adjusted in User/User HL
ECO (LED)	Off	LED output reduced to 70% of the original output when this mode is activated
	On	

6.8. Detailed Color Function Descriptions: [Lamp]



Item	Value/Selection	Description
Lum Adj.	30 ~ 100	Brightness adjustment: the lower limit is 30

6.9. Detailed Color Function Descriptions: [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 pattern effect of Gamma = 1) Number 200: Gray7 Number 201: Gray10 Number 202: Gray30 Number 203: Gray60 Number 204: Blue60

6.10. Detailed System Function Descriptions: [OutMem]



Item	Value/Selection	Description
Output Index	0 ~ 15	Set up output settings (Memory in engine)
Load	NA	Tap to display Prompt "Please confirm you want to Load these parameters."; tap [OK] or [Cancel]
Save	NA	Tap to display Prompt "Please confirm you want to Save these parameters."; tap [OK] or [Cancel]

6.11.Detailed System Function Descriptions: [Utility]



Item	Value/Selection	Description
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
Load Factory	NA	Reset to the default value

6.12.Detailed System Function Descriptions: [Information]



Item	Value/Selection	Description
Active	NA	Display the source information on the video played
Sub Win	NA	Display image source information of the sub-window
LEDs Lamp (LED)	NA	Display use time and frequency of LED lamp
Laser (Laser)	NA	Display laser use duration
Color Wheel	NA	Color wheel expiration date
Engine	NA	Light Engine expiration date
Cube Temperature	NA	Body temperature, two digits for ENV Temp
CU Master FW Ver.	NA	Firmware version of main Control unit
Engine Master FW Ver.	NA	Engine Firmware Version
DLP FW Ver.	NA	DLP FW Ver.

6.13.Detailed System Function Descriptions: [Host]



Item	Value/Selection	Description
iSystem Balance (LED)	NA	1. Trigger iSystem Balance 2. The [Waiting] message during operation denotes that the system is currently running 3. This function can only be triggered when the iSystem Mode is set to [Manual] or [Auto]. This function is unavailable when the mode is set to [Off]
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 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. Color Mode is locked at [Brilliant] and grayed when the iSystem Mode is set to [Manual] or [Auto]
	Manual	
	Auto	
Calibrating Value (LED)	Default	(LED models must be restarted to take effect) 1. Selected calibrating values come into effect only after running the "iSystem Balance" software manually 2. Default - use the factory calibrating values of CL200 directly if no HOST is connected 3. This option is grayed and cannot be selected in case the iSystem is set to Off. This option is valid only in Auto or Manual mode
	On Screen	
Online Cube List (LED)	NA	Displays the connection status of the cube Brightness: Displays the brightness difference of the various cubes; The maximum value is 100 Target: Enable target values of iSystem function

6.14.Detailed Advanced Function Descriptions: [Misc]



Item	Value/Selection	Description
IndexDly (Laser)	0~719	(Display Misc and OSD items described above)
Phosphor IndexDly (Laser)	0~719	(Display Misc and OSD items described above)
Error Message	Off	1 Enable or disable fan and lamp error MSG 2 The whole row is lit when both the Lamp and Fan fail 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 6. In case the Error Message option is set to OFF the 7-notch display of the Control Unit stops showing Error Message at the same time. So does the Panel 10/11 with System Error
	ON	
Language	Chinese	This function currently only switches the language of the APP itself
	English	
Thermal	DMD Fan	The system is turned off or the Error Message is prompted in case of DMD Fan failure
	PWR Fan	The system will be turned off or the Error Message will be prompted in case of Power 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 will be turned off or the Error Message is prompted in case of Lamp Fan failure
	HP Fan	The system will be turned off or the Error Message is prompted in case of HP Fan failure
	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

6.15.Detailed Advanced Function Descriptions: [About]



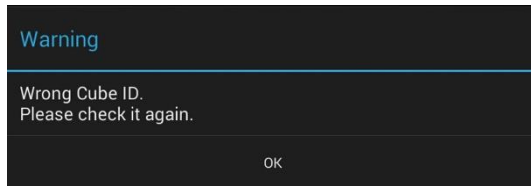
Displays the current app version

7. Operating Procedures

- Ensure that the number of cubes in the Online Cube List of the [Host] matches the actual number of cubes.
- Ensure that the FW version of the Engine/Control unit matches [Information].
- Ensure that the settings of all cubes in [Projection] are the same.
- Run Auto/Manual/Off in [iSystem Mode].
- Select Default/On Screen in [Calibrating Value]
- Run [iSystem Balance] once.
- Progressively adjust the color in [Color Adj.]. Color adjustments should follow W -> R -> G -> B -> C -> M -> Y.

8. Troubleshooting

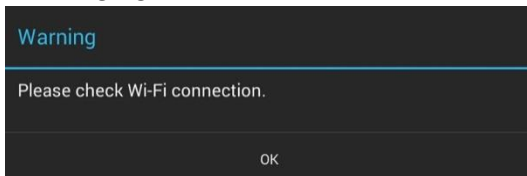
8.1. Cube ID error



Solution:

1. Please make sure whether the wireless connection is stable

8.2. Wi-Fi error



Solution:

1. Check wireless network connection
2. If the wireless network is not connected to a CU, please refer to [4.2 CU106 Wand complete the connection settings](#).