

# 1m Rotating motors Madrix mapping

This effect is based on 24pcs 1m rotating motors, 1pc CL-404R. Controller one port can connect 6pcs 1m rotating motors, total 4ports.

# 1. Controller Setting( use network cable to connect controller with computer)

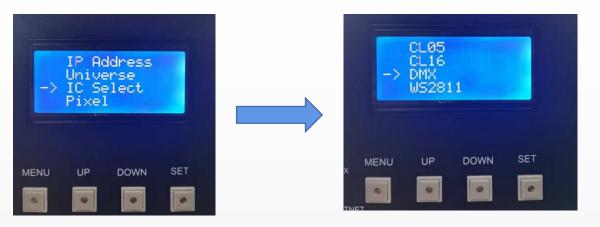


Controller setting, first step you need to long press "UP" and "DOWN" together then choose ART-NET. Long press "MENU" to save the setting. The controlle screen will show"????", this means still not connect with the madrix.

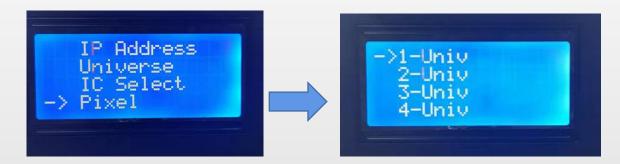
### 1. Controller Setting



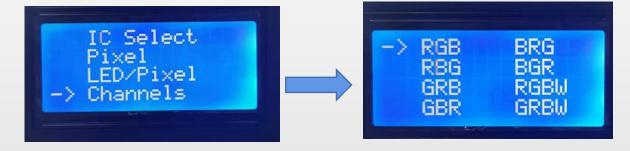
Step1: Screen shows"????" that means in Artnet mode(connect software)



Step 2: Long press"MENU", click "Down" choose "IC select", click "SET", choose "DMX". press "SET" return to last interface.



Step 3: Then click "Down" choose "Pixel", click "SET", choose "1-Univ", press"SET" retun to last interface.



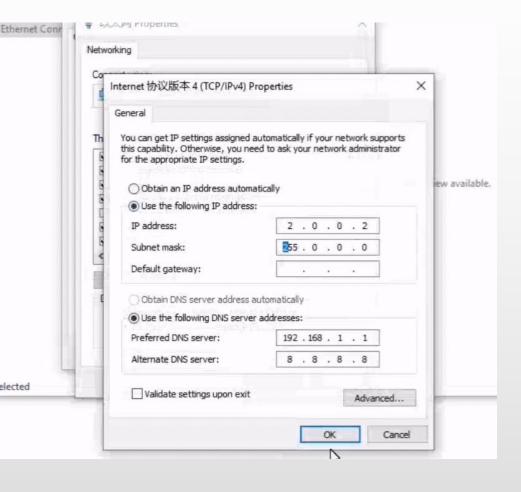
Step 4: click"Down" choose "Channels",click"SET",choose "RGB". Final long press"MENU" to saving the settings.

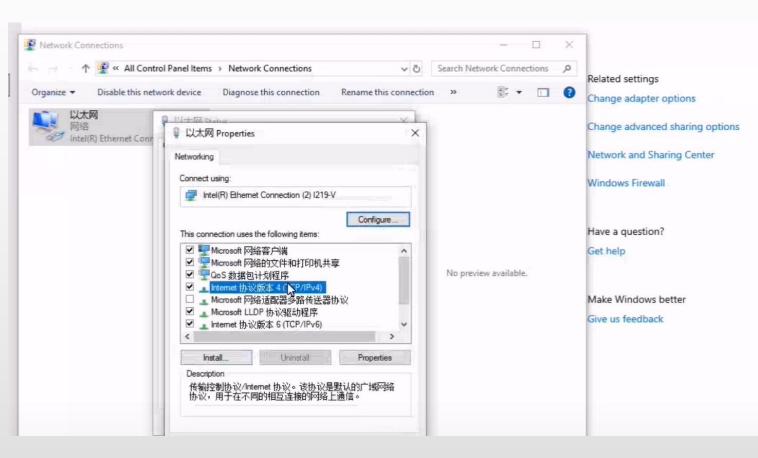
# 2. Computer IP setting

Computer Internet 4 Properties

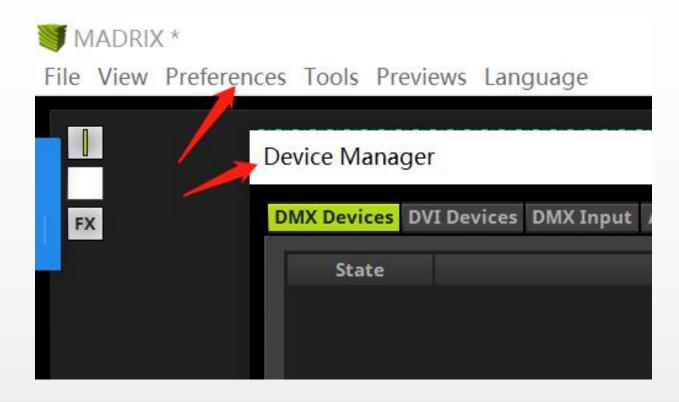
IP address: 2.0.0.2

Subnet mask: 255.0.0.0





# 3. Madrix setting



Click Preferences, choose Device Manager Then click Art-Net, searches for devices, wait 10seconds, you can find the controller IP.

#### Device Manager

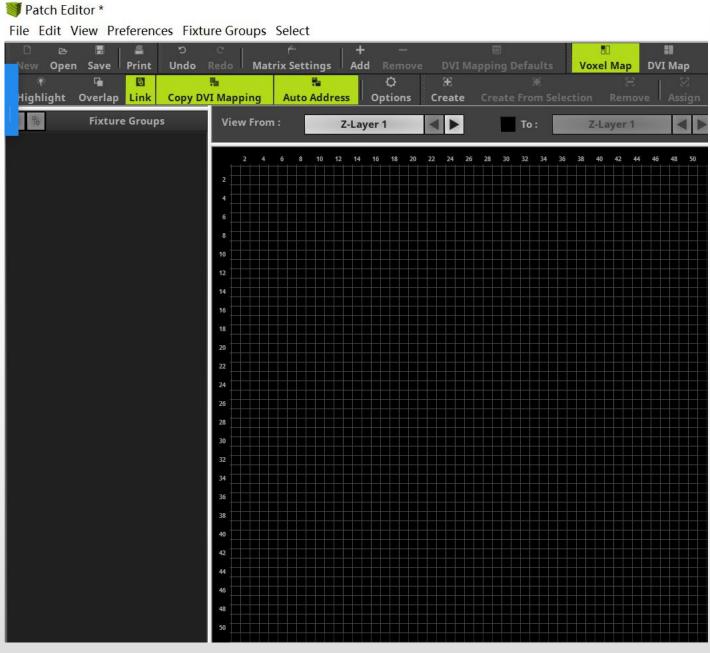






After search for devices, then click "DMX devices", Enable it, click apply and ok. When the controller connect Madrix successfully, controller scree will show ">>>>".

Click Preferences, patch Editor long press shift and click all the pixel, delete all the pixel first.

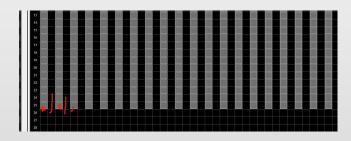


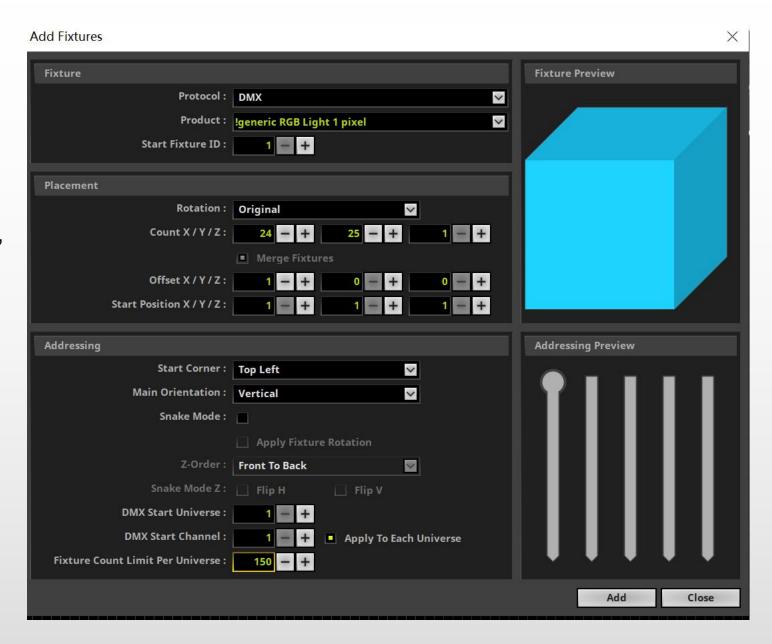
# 4. Madrix mapping

Count X: 24 (one 404R controller have 4ports, one port control 6pcs 1m motors, total 4ports\*6=24pcs 1m motors)

Count Y:25 (1m tube is 24pixel, add 1pixel for rotating, so 1pc motors is 25pixel)

Offset X: 1 (this is not important, just to give distance to each line, then you can mapping the effect more easier)

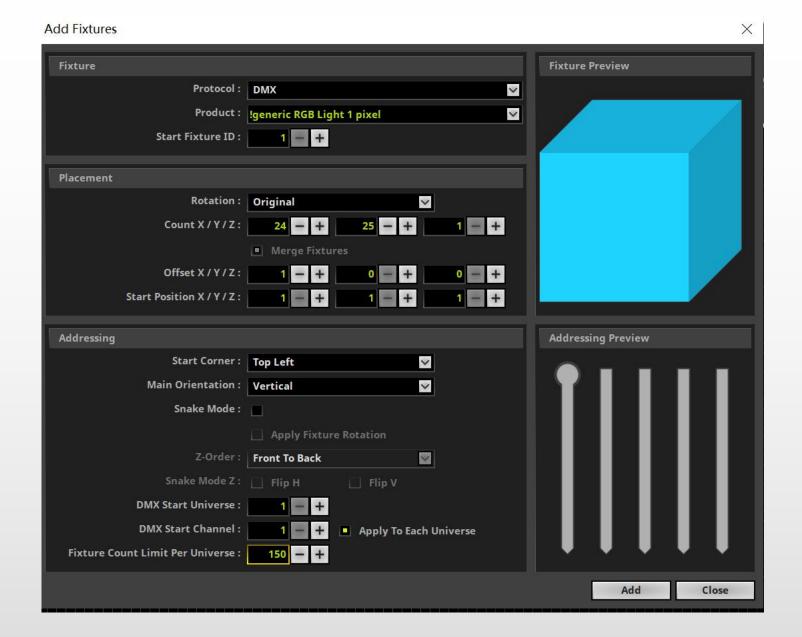




#### Main Orientation: Vertical

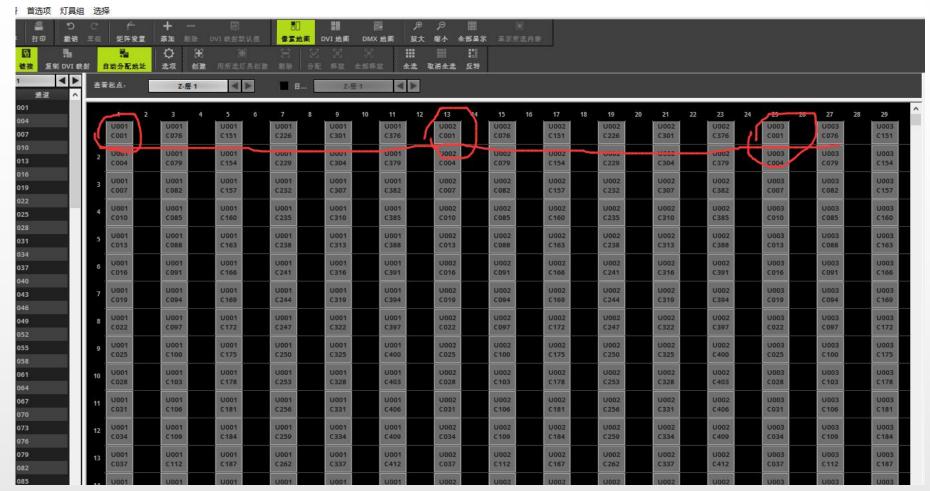
Fixture Count Limit Per Universe:150 (150 that means each universe use 150pixel, controller one port is 1 universe, pixel calculate: 6pcs(one port connect motors quantity)\*25(1m pixel)=150pixels

DMX start Universe:1 (404R controller 4 ports is 1-4universe total)
If you have second 404R led controller, then start universe should be 5.

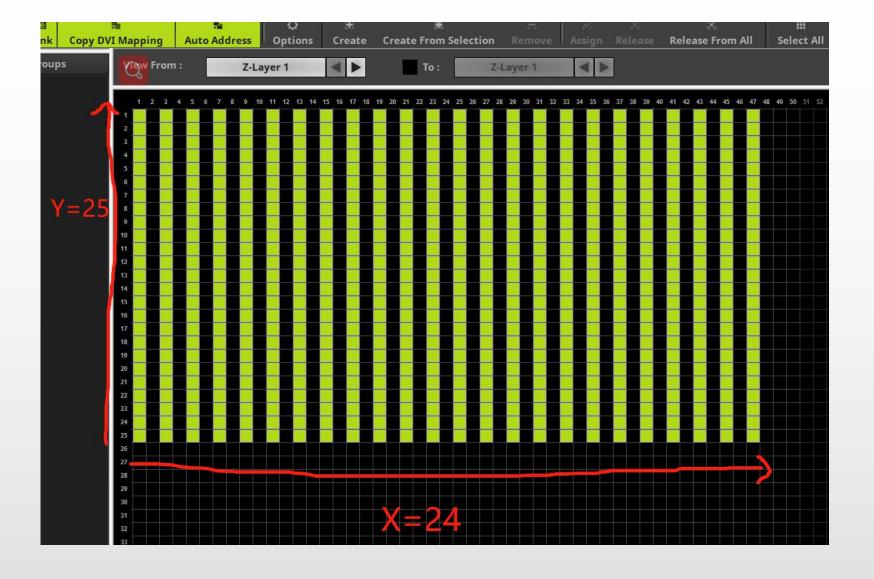


# Explaination: 404R controller universe 1-4,when universe1 reach 150pixel,it will Automatic accumulation, then port 2 will be universe 2, port 3 will be universe 3, port 4 will be universe 4. So one 404R controller universe is 1-4.

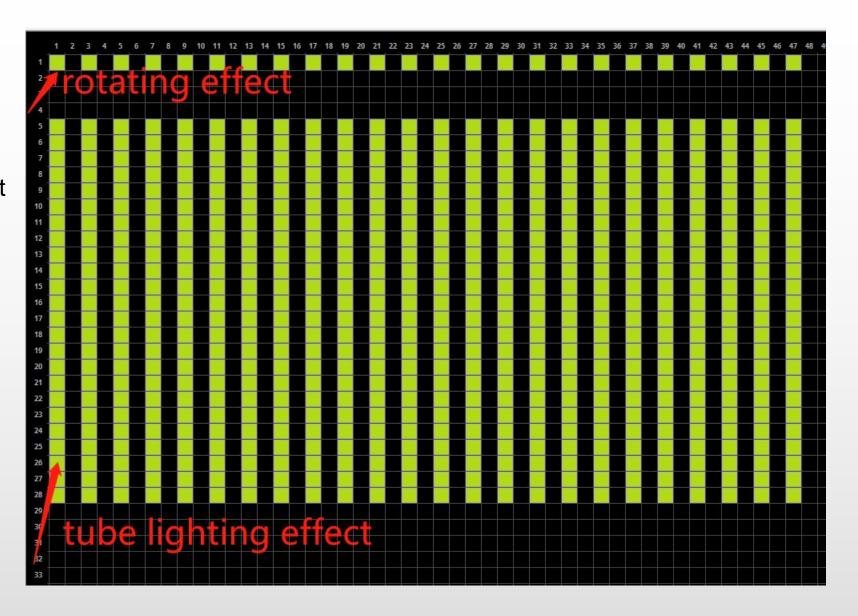
When you use second 404R controller, while mapping the effect, start universe should be 5.



Explaination: X 24 Y25



long press shift, leave one point for rotating effect, the rest for tube lighting effect.



SCE color change, choose color change

MADRIX \*

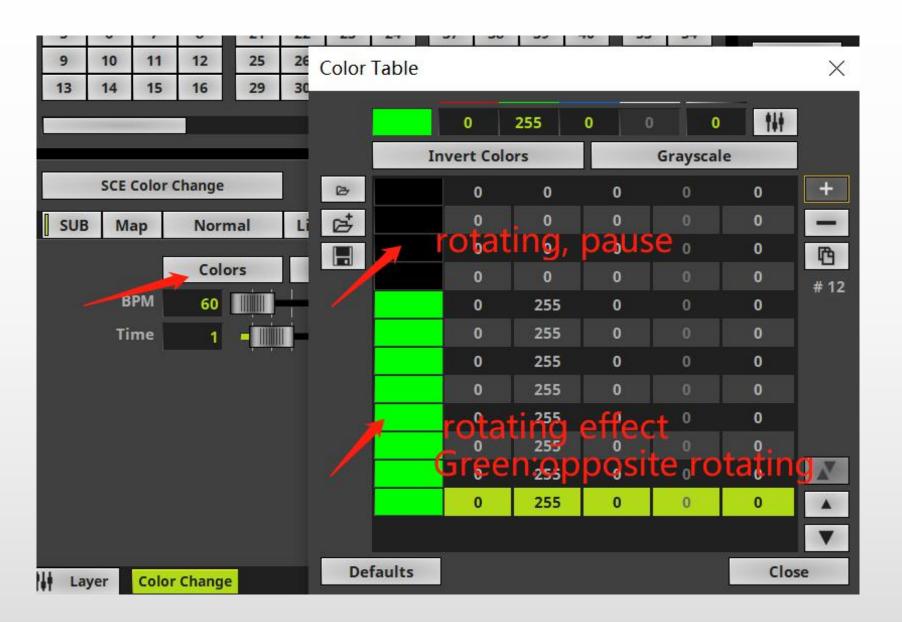


Click colors.

change the numerical value.

Black:0,0,0 this is to pause the rotating effect.

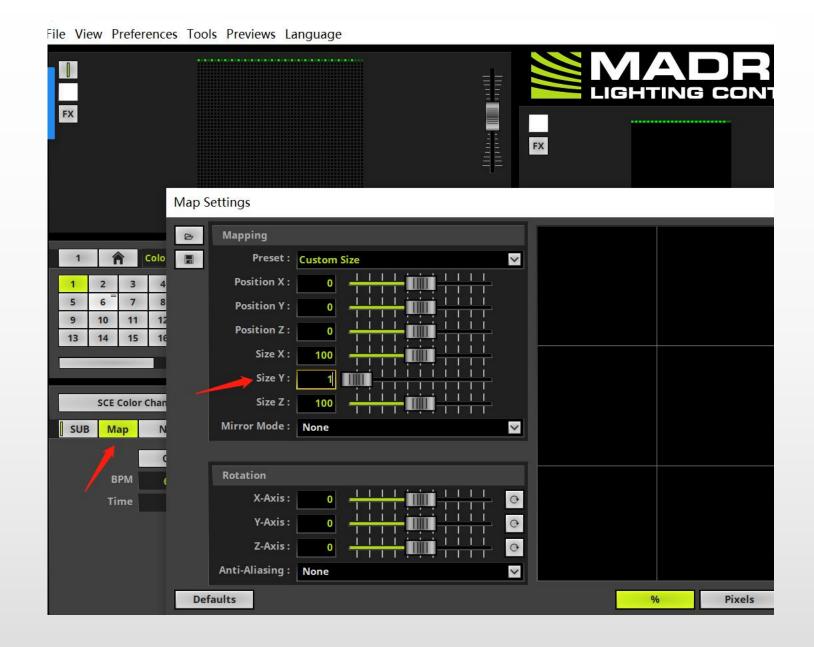
Green:0,255,0 this is for opposite rotating effect.



# Click Map

Size Y: 1

Then you can see rotating effect only.



Right click rotating effect, choose New, then add a new mapping for tube lighting effect.

Rename, one is rotating effect, the other is tube lighting effect.



Left click tube lighting effect, then click SCE color scroll, choose SCE, then color scroll.

Choose lighting effect"bottom",let the tube color change from top to bottom.



File View Preferences Tools Previews Language

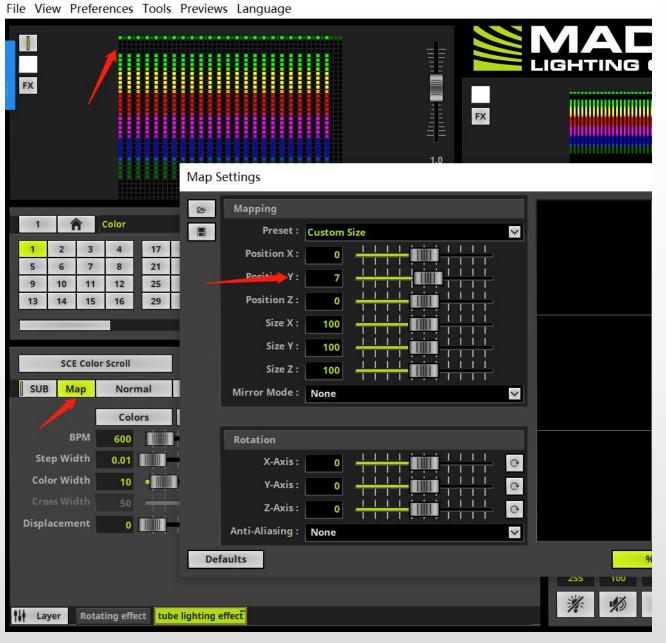


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click Map, Position Y should can be 5 or 7. This number is for position, you can change number to cover the pixel area.

If the tube have one pixel doesn't have lighting effect, then change the position Y to 5, 6 or 7 or 8 or others. until tube light all.





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## **Speed and Direction setting**

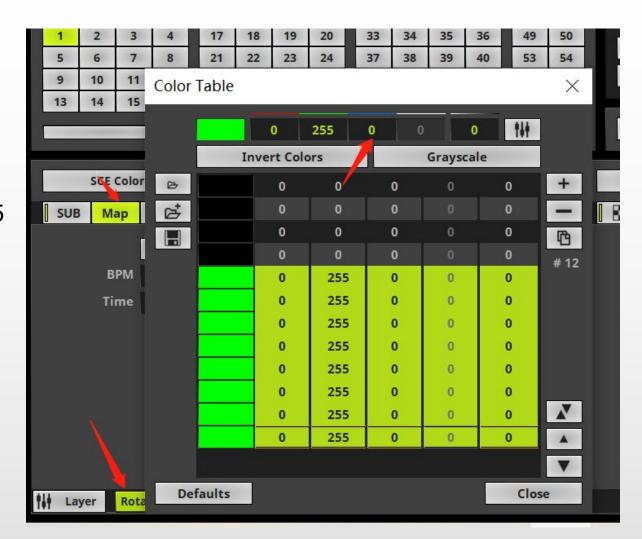
Choose Rotating effect--Map

choose all the green part, when the channel 2 is 255

Channel 3(speed): 0-126 is the opposite rotation, from fast to slow rotating

Channel 3(speed): 129-255 Positive rotation, from slow to fast rotating

Channel 3(speed): 127/128 pause



#### Dial code



- 1. If all the dial code is 0, then all the rotating motors will show same effect and direction.
- 2.If you want each tube with different lighting effect and direction, you need to change the dial code of motors.

404R led controller

Port 1: tube 1 dial code is 0, tube 2 dial code is 1...... tube 6 dial code is 5

Port 2: tube 1 dial code is 0, tube 2 dial code is 1....... tube 6 dial code is 5

Port 3:tube 1 dial code is 0, tube 2 dial code is 1....... tube 6 dial code is 5

Port 4:tube 1 dial code is 0, tube 2 dial code is 1....... tube 6 dial code is 5

360 degree tube (1m)		360 degree tube (1.2m)		360 degree tube (1.5m)	
DMX code	Pixel value	DMX code	Pixel value	DMX code	Pixel value
0	125	0	132	0	137
1	26——50	1	29——58	1	3874
2	51——75	2	5887	2	75111
3	76100	3	88116	3	112149
4	101——125	4	117145		
5	126——150				

# **DMX** channel description

Channel	Function	Function description		
Channel-1	Rotation angle 128 equal parts of the circumference, 0 detection (calibration)			
Channel-2	Speed	0 stop, 1 — 254 from slow to fast, 251-254 is preset lighting effect, and 255 channel 3 is valid		
Channel-3	Automatic rotation	0 — 126 rotate counterclockwise from fast to slow, stop at 127\128; 129 — 255 rotate clockwise from slow to fast		