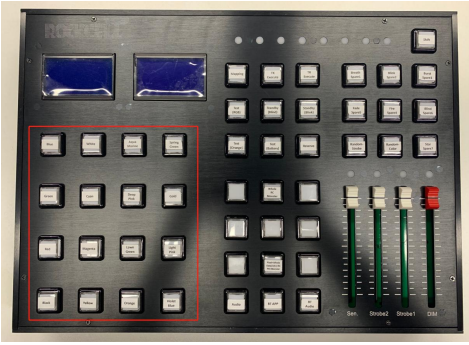
Wireless Console – Party Monster User guide

20210624 V1.0

Product Appearance

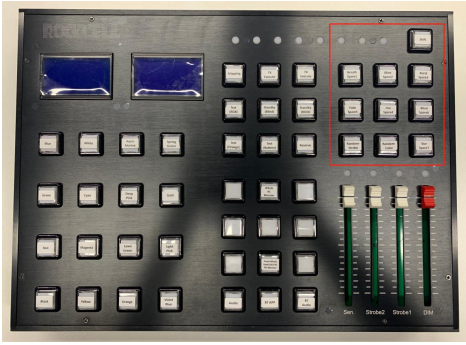
- Control Panel
  - Buttons x 47
  - Sen. x 1
  - Strobe2 bar x 1
  - Strobe1 bar x 1
  - DIM bar x 1
- Display
  - 128 x 64 DOT Matrix TFT display x 2
- Antenna
  - SMA connector x 2
  - 9dB high gain antenna x 1
- Power
  - Power adaptor 12V 2A x1
  - DC connector
  - Power switch x 1
- Signal ports
  - DMX input x 1
  - DMX relayed output x 1
  - Dsub-9 connector x 1

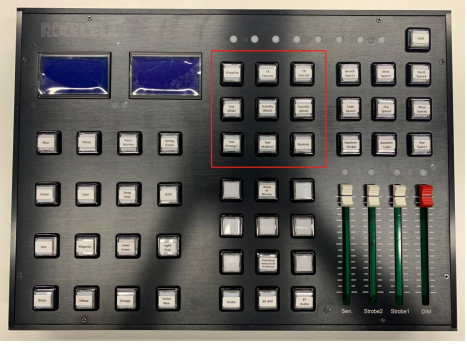
Introduction to control panel



Color selection

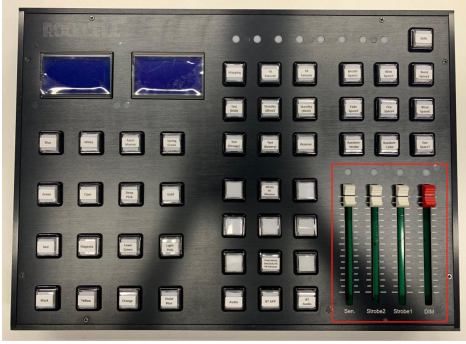
Effect selection

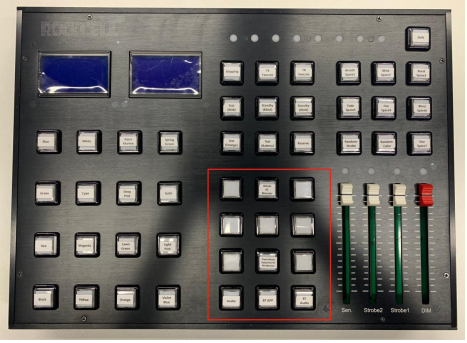




Execute selection

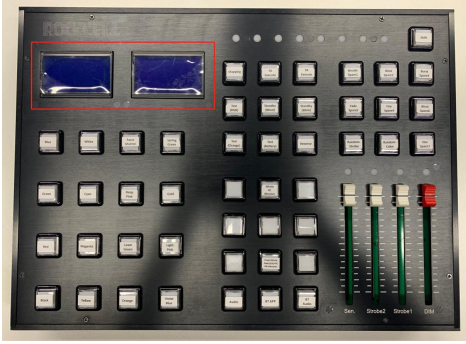
Tuning bars





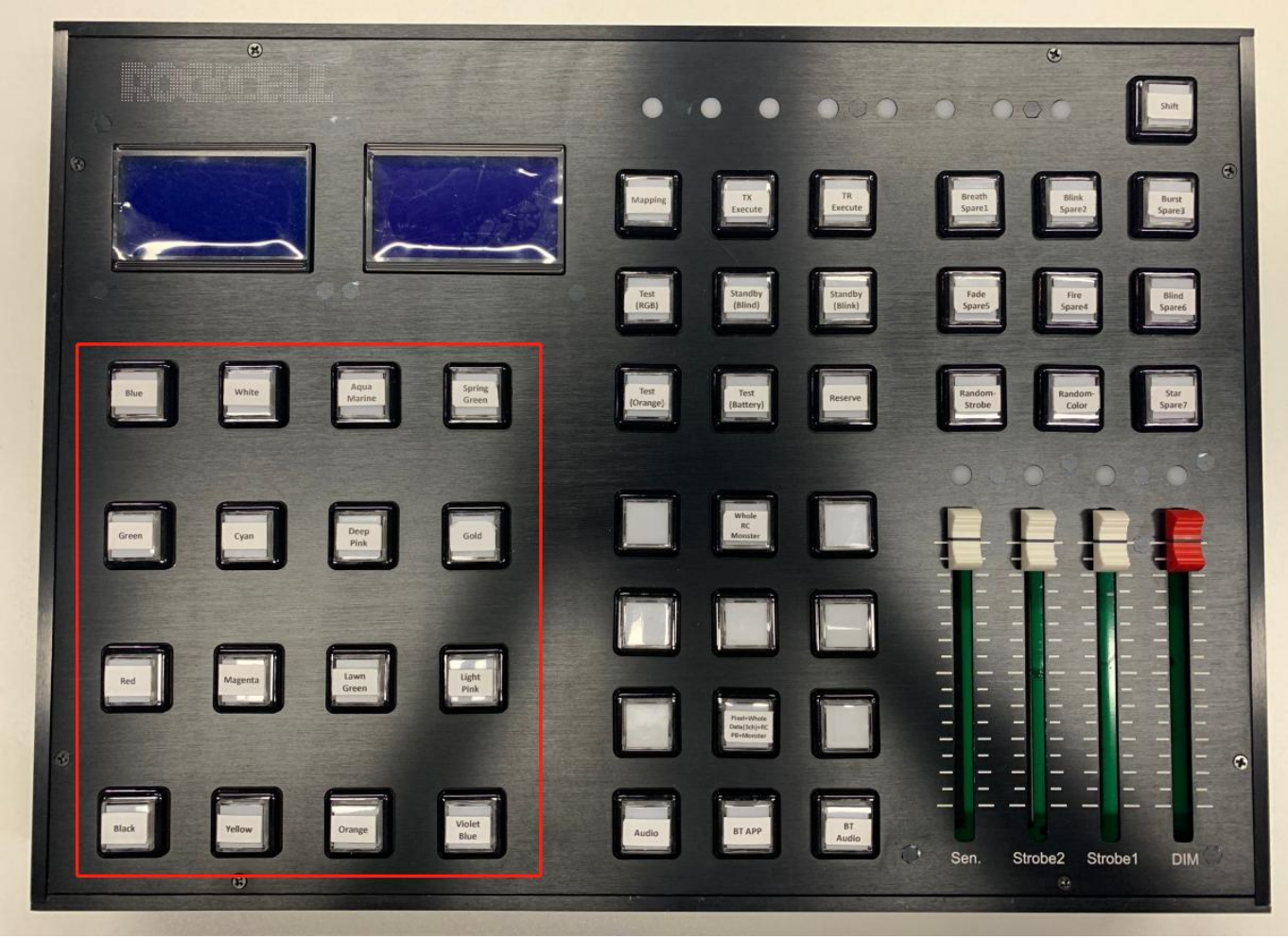
Mode selection

LCD Display



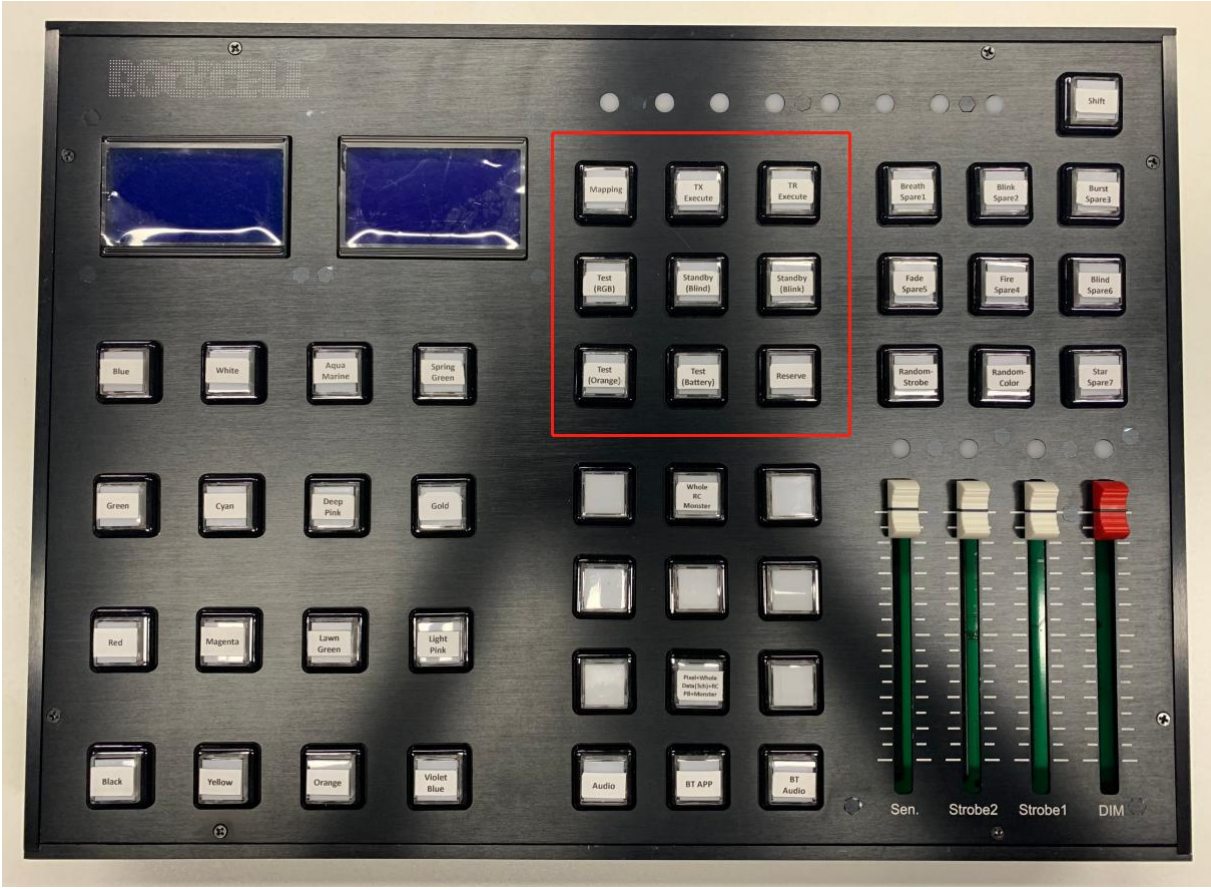
Color Selection

- 16 fixed special tuned colors for fancy light show
- The control is enabled only when Manual mode is enabled.
- 16 colors listed:
  - Blue
  - Green
  - Red
  - Black
  - White
  - Cyan
  - Magenta
  - Yellow
  - AquaMarine
  - DeepPink
  - LawnGreen
  - Orange
  - SpringGreen
  - Gold
  - LightPink
  - VioletBlue

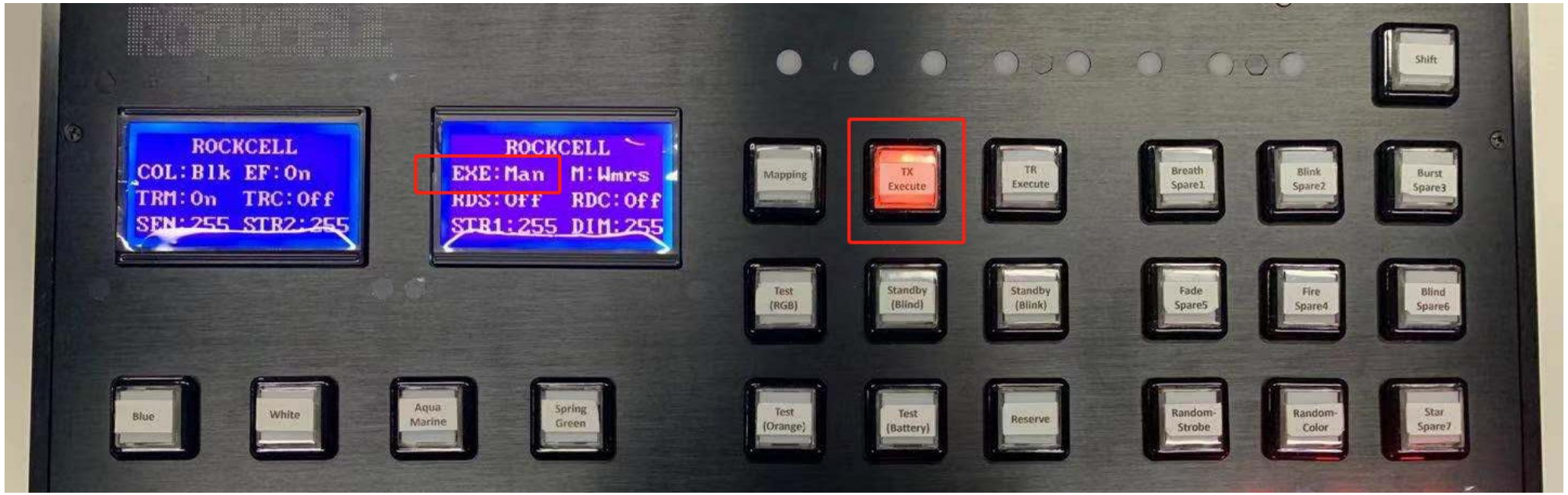


Execute Selections

- There are 5 control mode embedded in Party Monster TX console
  - Manual mode
  - Device Color Check Mode
  - Device Battery check mode
  - DMX Pixel mode
  - Standby mode

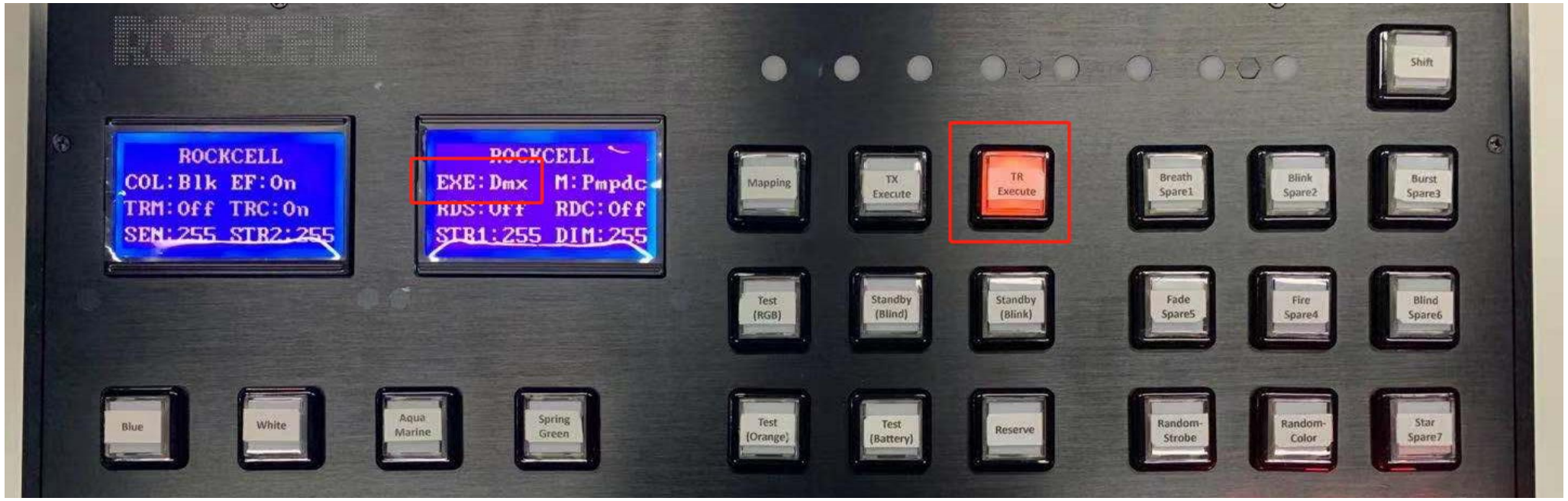


Execute Selections – Manual Mode



- Press the "TX Execute" button, as picture shown, there will be Man is shown in the display panel. This indicates that Monster is under Manual control mode.
- Under Manual control mode, all the devices are controlled by the operation in console control panel.

Execute Selections – DMX Pixel Mode



- Press the "TR Execute" button, as picture shown, there will be Dmx is shown in the display panel. This indicates that Monster is under DMX Pixel Mode. The commands for all devices come from DMX.
- For DMX512, each pixel contains 3 channels (RGB). 170 pixels will be supported in DMX Pixel Mode
- With DMX Pixel Mode, it’s easy to align the show with 170 areas only use Monster + MA console (or Madrix with 1 universe ArtNet To DMX converter)

Execute Selections – Device Color Check Mode

- Press the "Test(RGB)" button, as picture shown, there will be Dta is shown in the display panel. This indicates that Monster is under Device Color Check Mode
- Under Device Color Check Mode, all the devices are controlled by auto run RGB radio signal from Monster

Execute Selections – Device Battery Check mode

- Press the "Test(Battery)" button, as picture shown, there will be Btd is shown in the display panel. This indicates that Monster is under Device Battery Check Mode
- Under Device Battery Check Mode, all the devices are controlled by the Battery Check radio command
- Push the tuning Bar DIM, the colors displayed on the device are blue, purple, yellow, green and red, which represent power greater than or equal to: full power, 75%, 50%, 25% and low power, respectively

Execute Selections – Standby mode

- Press the "Standby(Blind)" button, as picture shown, there will be Sbb is shown in the display panel. This indicates that Monster is under Sleep Mode
- Under Standby Mode, all devices go into standby mode from Monster control.This function saves battery life for longer operation time

Mode Selection

- Whole RC Monster

  Whole region control mode, instructions from the panel, lamp embedded light effect, when press the "TX Execute" button selected in the execution mode, this button will automatically take effect.
- Pixel+Whole Data(3ch)+RC PB+Monster

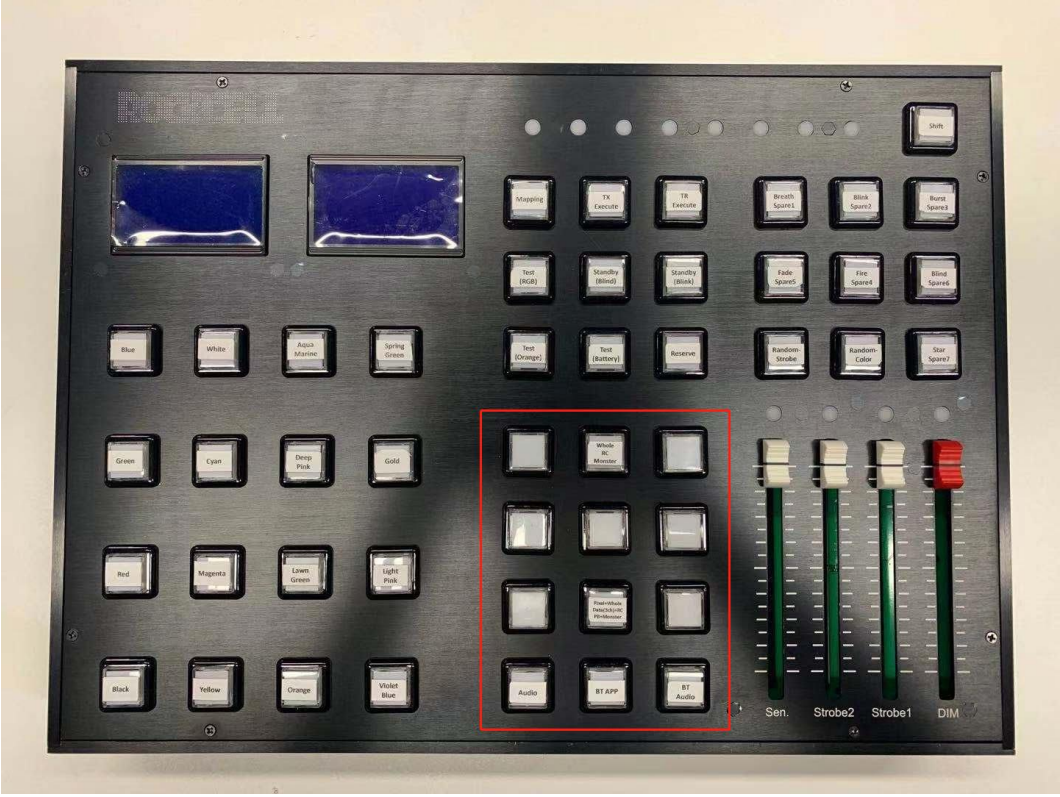
  Whole region, partition, pixel mode, instructions from the panel or DMX, lamps embedded special effects, when the execution mode selection button is pressed, the button will automatically take effect.
- Audio

  Currently not used
- BT APP

  Currently not used
- BT Audio

  Currently not used

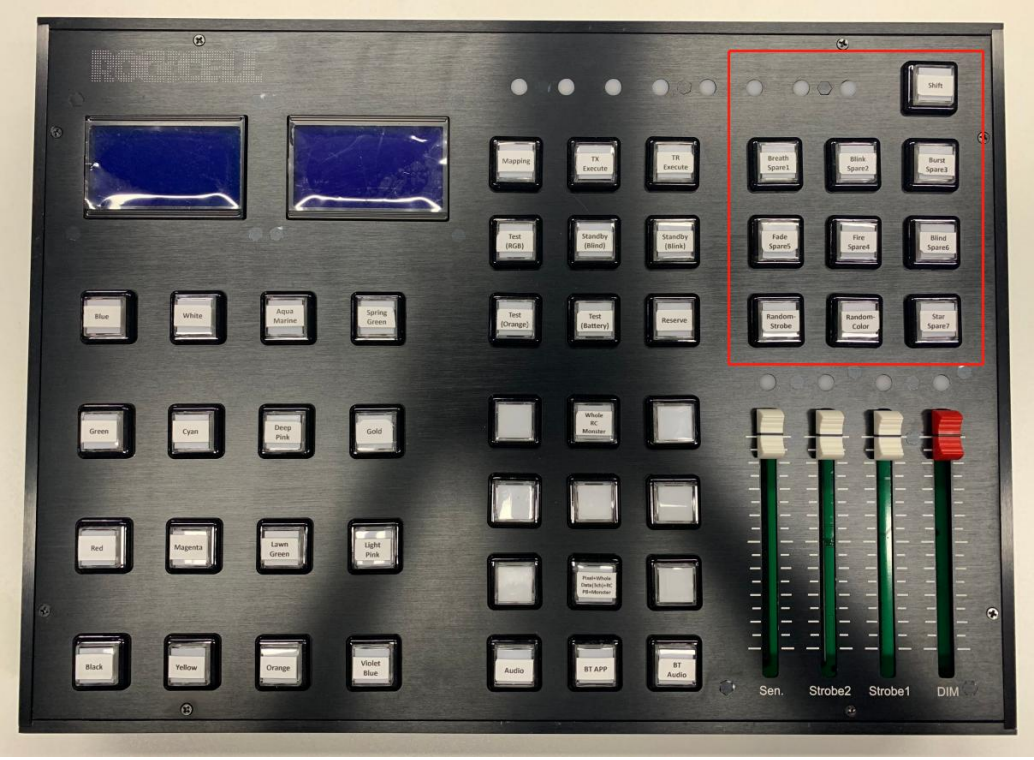
(Some keys are not currently enabled)



Effect Selection

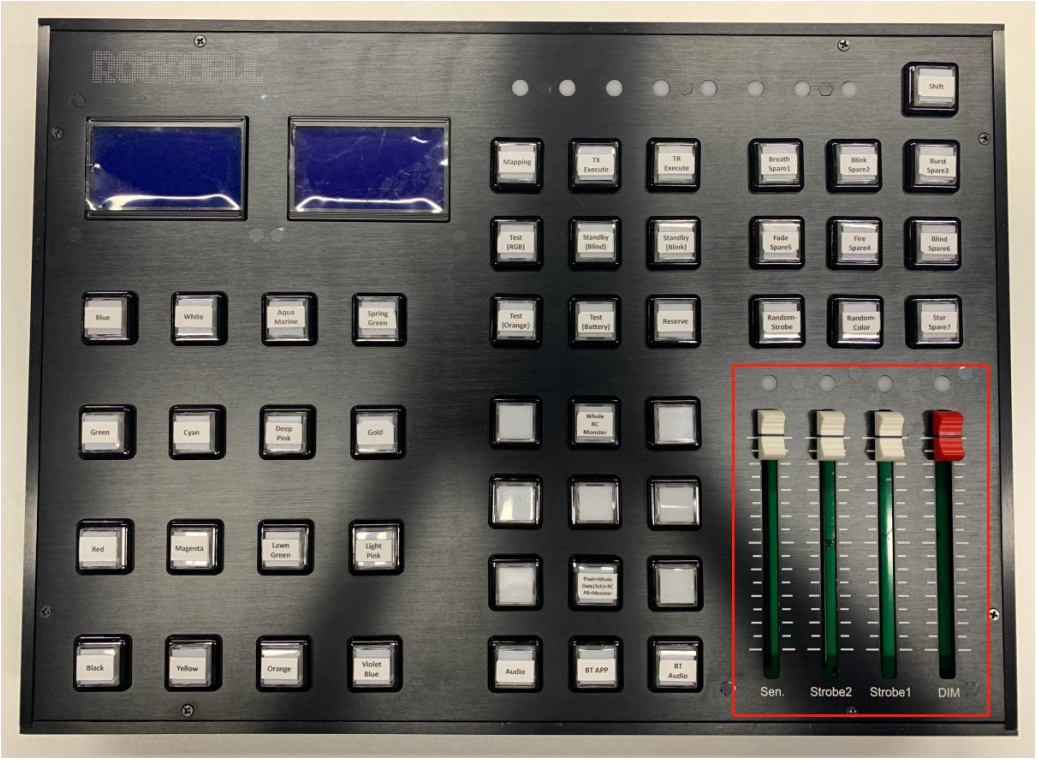
- Effect means a special defined dimming behavior during light is on embedded in devices
- Party Monster provide 9 + optional 7 Effects control
- Standard 9 Effects: (Shift off)
  - Breath- Lights on with grooving up and down which is similar to breathing
  - Blink- Fast blink on/ Off
  - Burst- Rockcell fire mode.
  - Fade- Color fade from current color to next chosen color
  - Fire- Rockcell fire mode.
  - Blind- In the dark
  - Random Strobe
  - Random Color
  - Star- Random twinkling like stars

- Extended Effects: (Shift on,Currently not used)
  - Spare1~Spare7: Reserved for customized shutters



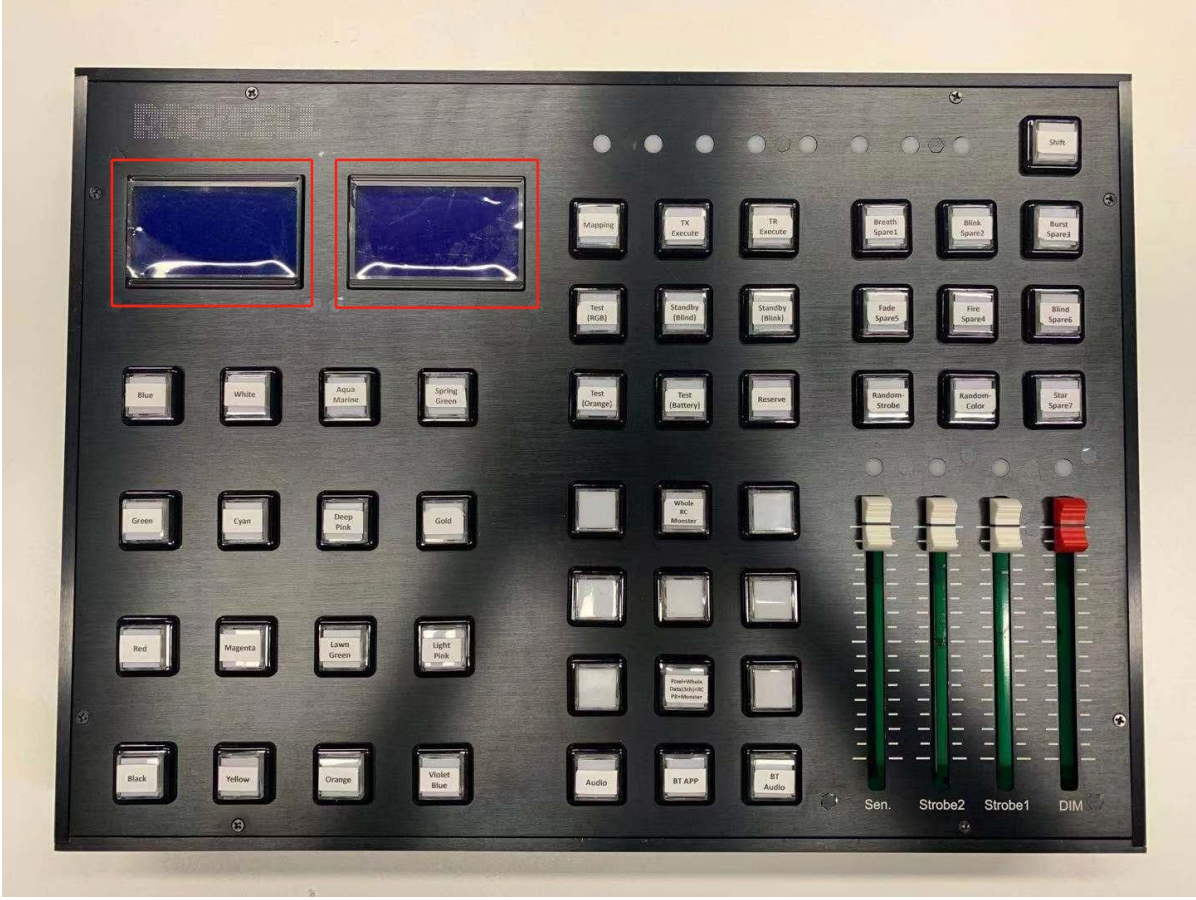
Tuning Bars

- Dimmer tuning bar
  Sliding dimmer tuner bars control light intensity
- Strobe1 tuning bar
  Sliding Strobe1 tuner controls the light flicker frequency,
  The greater the value, the faster the flicker frequency,
  the maximum is always bright and the minimum is off.
- Strobe2 tuning bar
  Like Strobe1, but enabled when the effect selection
  button is pressed
- Sen. tuning bar
  Adjustment sensitivity, Currently not used



Display Panel

- TFT LCD display panel
  - 128 x 64 dot matrix
  - Words black
  - Backlight embedded
- Information in display
  - Rockcell logo
  - Color status
  - Effect status
  - TRM status
  - TRC status
  - SEN. status
  - STB2 status
  - Rockcell logo
  - Execute status
  - M status
  - RDS status
  - RDC status
  - STB1 status
  - DIM status



Power on

1. Screw in the antenna
2. Connect power adaptor to device
3. Turn-on the power switch
4. In default after power on, the mode is left as it was on the last shutdown

Product Spec.

Product Specification	
Model	Monster
Product type	2.4G Wireless Transmitter
Manufacturer	ROCKCELL Technology (Shenzhen) CO., LTD
RF Band	2404~2478 MHz
Occupied Bandwidth	≤2MHz
Modulation	GFSK
Antenna	External antenna 9.30 dBi
Power supply	DC 12V/ 2A
Dimension (mm)	475 x 345 x 67
Color	Black
Operation system	Embedded MCU
Operation temperature	0 ~ 65 degree

Product Appearance

Antenna Spec

A. Electrical Characteristics	
Working Frequency	2400-2500MHz
S.W.R	<2.0
Typical Antenna Gain	6dBi
Polarization	Vertical
Impedance	50 Ohm
B. Material	
Material of Coaxxial Cable	RG178
Marerial of Plastic	TPEE
Connector Type	SMA
C. Environmental	
Operation Temperature	- 45 ˚C ~ + 85 ˚C
Storage Temperature	- 45 ˚C ~ + 85 ˚C

RF Channels for selection

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2404 MHz	18	2427 MHz	36	2445 MHz	54	2463 MHz
1	2410 MHz	19	2428 MHz	37	2446 MHz	55	2464 MHz
2	2411 MHz	20	2429 MHz	38	2447 MHz	56	2465 MHz
3	2412 MHz	21	2430 MHz	39	2448 MHz	57	2466 MHz
4	2413 MHz	22	2431 MHz	40	2449 MHz	58	2467 MHz
5	2414 MHz	23	2432 MHz	41	2450 MHz	59	2468 MHz
6	2415 MHz	24	2433 MHz	42	2451 MHz	60	2469 MHz
7	2416 MHz	25	2434 MHz	43	2452 MHz	61	2470 MHz
8	2417 MHz	26	2435 MHz	44	2453 MHz	62	2471 MHz
9	2418 MHz	27	2436 MHz	45	2454 MHz	63	2472 MHz
10	2419 MHz	28	2437 MHz	46	2455 MHz	64	2473 MHz
11	2420 MHz	29	2438 MHz	47	2456 MHz	65	2474 MHz
12	2421 MHz	30	2439 MHz	48	2457 MHz	66	2475 MHz
13	2422 MHz	31	2440 MHz	49	2458 MHz	67	2476 MHz
14	2423 MHz	32	2441 MHz	50	2459 MHz	68	2477 MHz
15	2424 MHz	33	2442 MHz	51	2460 MHz	69	2478 MHz
16	2425 MHz	34	2443 MHz	52	2461 MHz	/	/
17	2426 MHz	35	2444 MHz	53	2462 MHz		

CAUTIONS!

FCC Statement
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body