

**1. Product parameters**

Name : 1624 Color LED Music Spectrum  
 Model : GA1-256 V6.09 version  
 Display mode: 16 columns, 24 rows, a total of 384 RGB LED display  
 Product size: length 21.8cm, width 2.8cm, height 7.2cm  
 Net weight : 190g  
 Power supply mode: USB power supply, 0.9w power supply line, no power supply, can be powered by 5V mobile phone charger; no charging function.  
 Working voltage: 5V  
 Working current: 600mA  
 Control method: voice control or 3.5mm audio cable control, automatic switching; no audio cable is inserted, it is sound control, and the audio cable is inserted into the audio cable to automatically switch to audio cable control.  
 Main functions: 20 display modes, 7 total color modes, 8 brightness settings, 4 time display modes, 1 breathing display mode, 2 alarm-clock functions, 1 night dim function.

**2. Connection method**

Connect the USB cable to the 5V power supply and use a mobile phone charger or a USB power supply device. The screen displays the version number such as V6.01 when the power is turned on, and then goes out.  
 As long as there is sound in the voice control, it will jump to it. If you need to use the audio cable to control, insert the audio cable into the headphone jack, and it will automatically switch to the wire control mode.  
 When using voice control, try to be as close to the speaker as possible, the sound sensor is on the back of the spectrum, and there should be no obstructions between the sensor and the speaker.  
 When using voice control, external noise or speech sound will be received and displayed by the spectrum.  
 The sensitivity of the sound can be controlled by adjusting the volume of the sound and can also be changed by setting the sensitivity.  
 Special note: It is not possible to connect the speaker cable directly to the earphone input of the spectrum.

**3. Button description (short press and long press)**

There are two buttons on the back of the product, as shown on the right, button 1 and button 2. There are two operating methods, one is long press and the other is short press.  
**Long press:** Press and hold the switch for about 1 second (you will hear a beep), and then the setting interface will pop up.  
**Short press:** It is to press the switch quickly and release it (you will hear a beep as well), and then the setting interface will pop up.  
 Exit setting: Press another button to exit the current setting, or automatically exit after 8 seconds. The settings are automatically saved when you exit.



**4. Time setting**

<p>Long press button 1 and release it when you hear a beep; the time setting interface is displayed. Then continuously short press the button to modify the hour value.</p>	<p>Press and hold button 1 again, and release it when you hear a beep; the setting interface is displayed. Then continuously short press the button to modify the minute value.</p>	<p>In this way, the setting is completed, press another key (key 2) to exit, or automatically exit after 8 seconds.</p>
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**Five, display mode settings (a total of 20 display modes)**

Operation method: short press the button 1, the display interface with numbers (automatically close in 1 second), and each press switches a mode. For example, if you press 01 to display the interface, you will set the float + column display mode.

<p><b>Mode 1: buoy + vertical real-time display mode</b></p>	<p><b>Mode 2: Level display + vertical real-time display mode</b></p>	<p><b>Mode 3: Level display + vertical real-time display mode</b></p>	<p><b>Mode 4: Level display + horizontal real-time display mode</b></p>
<p><b>Mode 5: Landscape Live View Mode</b></p>	<p><b>Mode 6: buoy + horizontal four groups of combined bar real-time display mode</b></p>	<p><b>Mode 7: Vertical Live View Mode</b></p>	<p><b>Mode 8: Vertical center axis real-time display mode</b></p>
<p><b>Mode 9: buoy + vertical column real-time display mode</b></p>	<p><b>Mode 10: Vertical buoy real-time display mode</b></p>	<p><b>Mode 11: buoy + horizontal single combination real-time mode</b></p>	<p><b>Mode 12: Lateral Shift Half-Wave Mode</b></p>
<p><b>Mode 13: Lateral Shift Full-Wave Mode</b></p>	<p><b>Mode 14: Vertical real-time mode + full-wave mode (up and down split screen)</b></p>	<p><b>Mode 15: Vertical real-time mode + full-wave mode (left and right split screen)</b></p>	<p><b>Mode 16: buoy + horizontal two groups combined real-time mode</b></p>
<p><b>Mode 17: Change modes in a fixed order Output: Mode 1 to Mode 16</b></p>	<p><b>Mode 18: Variation of modes in random order Output: Mode 1 to Mode 16</b></p>	<p><b>Mode 19: change in a fixed order: Mode 1-16, full color or full color or colorful</b></p>	<p><b>Mode 20: change in random order: Mode 1-16, full color or full color or colorful</b></p>

**Six, color mode settings (a total of 7 color settings, 1 spectrum off function)**

Operation method: short press the button 2, the following figure will pop up the display interface with numbers (automatically turn off in 1 second), switch a mode every time you press it. For example, if you press 1 to display the interface, you will set a row or a column of full-color automatic changes.  
 Note: Mode 4 is a custom color, which is set through [Custom Color Settings].  
 The difference between Full-color and colorful, Full-color is richer in color and darker in color. Colorful colors are relatively bright, a total of 7 colors.  
 Output off: If the output spectrum is off, the time is displayed all the time without being affected by the sound. (If the spectrum is off, you can't turn off the time too, otherwise nothing will be displayed)

<p><b>Full color one by one: a row or a column of colors gradually and automatically change</b></p>	<p><b>Group-by-group full color: four rows or four columns of color gradually change automatically</b></p>	<p><b>Full color screen by screen: full screen color changes automatically</b></p>	<p><b>Custom Color: Display a fixed color set by yourself</b></p>
<p><b>One by one colorful: a row or a column of colors gradually and automatically change</b></p>	<p><b>Group-by-group colorful: four rows or four columns of colors gradually and automatically change</b></p>	<p><b>Screen-by-screen colorful: full screen color changes automatically</b></p>	<p><b>Output off: turn off the spectrum display function</b></p>

**8. Other function settings**

Operation method: long press button 1 to enter the setting interface, short press button 1 to modify the value. Press button 2 to exit the setting, or wait 8 seconds to exit the setting automatically.

Set hour value	
Set the minute value	
change duration In changing output modes 17 and 18, the time interval for changing each mode, in seconds. Setting range: 3 seconds to 18 seconds	
Mirror inversion (for multiple spectral combinations) 0: Spectrum is output by default 1: Mirror output on the x-axis by default (image flipped upside down) 2: Mirror output on the y-axis by default (image flipped left and right)	
Display optimization settings: 1: Choose from the changing 19/20 mode: colorful + full color 2: Only select the color in the changing 19/20 mode: colorful 3: Only select the color in the changing 19/20 mode: full color 4: Optimize shift mode color, speed up shift	
To set the display speed: 1-4: The larger the value, the higher the display refresh rate and the faster the display. Default is 2	
night mode Set the time period of night (dark) eye protection mode, the default is off. Change 0 to 1, which means open. 21-07 means that it is slightly bright from 9:00 pm to 7:00 the next day. Normal brightness at other times	
Brightness adjustment: 1-7: 7 levels of brightness adjustment A: Breathing mode, the brightness is adjusted by the spectral signal strength, the stronger the signal, the higher the brightness	
color modulation Fixed full-color RGB component settings: modulate your favorite colors as needed. When R is flashing, short press button 1 to set the red brightness. Long press B to flash, short press button 1 to set green brightness. Long press B to flash, short press button 1 to set blue brightness. Long press to go to the next setting. Or press button 2 to exit	
Time display numbers: 0: Turn off the clock display 1: Fixed color hour, minute and second display mode 2: Fixed color large font display mode A1: Dynamic color hour, minute and second display method A2: Dynamic color large font display method	
Sensitivity settings: 1-4: Detect the input signal strength, the higher the value, the higher the sensitivity Default is 3 Note: If the number is too small, the sensitivity will be very high, and a little interference signal will cause jumping.	
Channel Settings: Set left, right, two-channel input When using the voice control function, the 'channel input' must be set to 'left.'	
To set the delay: When there is no audio input, the time to display the clock is the current number * 3 seconds. The default is 2, multiplied by 3 seconds, that is, the time will be displayed after 6 seconds when there is no audio signal.	
To set the display order: 1: Frequency is displayed from low to high 2: The middle frequency is low and the two sides are high display The default is from low to high	
To set 1-3 alarm clocks: The first number is 0, which means to turn off the alarm clock of this channel, and set it to 1 to turn on the alarm clock of this channel. Followed by time and minutes. The default 3 may alarm clock is off.	
One-click factory reset In the running state, long press the 'button 2' for more than 3 seconds, the screen will display RST, and there will be a long beep, indicating that the factory settings have been successfully restored.	

1024 COLOR LED SPECTRUM DISPLAY FUNCTION SETTING GUIDE REFERENCE TABLE

1. Shortcut operation						
key operation	Function settings	Feature options	Function Description	default		
<b>Short press button 1 :</b> <b>Short press:</b> The duration of the key press is between 30ms and 500ms . There is a short beep	Select spectral output mode	Output Mode 1 :	Buoy + vertical real-time display mode		19	
		Output Mode 2 :	Buoy + level display + vertical real-time display mode			
		Output Mode 3 :	Level display + vertical real-time display mode			
		Output Mode 4 :	Level display + horizontal real-time display mode			
		Output Mode 5 :	Landscape Live View Mode			
		Output Mode 6 :	Buoy + horizontal four groups of combined bar real-time display mode			
		Output Mode 7 :	Vertical Live View Mode			
		Output Mode 8 :	Vertical center axis real-time display mode			
		Output Mode 9 :	Buoy + vertical column real-time display mode			
		Output Mode 10 :	Vertical buoy real-time display mode			
		Output Mode 11 :	Buoy + horizontal single combination real-time mode			
		Output Mode 12 :	Lateral shift half-wave mode			
		Output Mode 13 :	Lateral shift full-wave mode			
		Output Mode 14 :	Vertical real-time mode + full-wave mode (up and down split screen)			
		Output Mode 15 :	Vertical real-time mode + full-wave mode (left and right split screen)			
		Output Mode 16 :	Buoy + horizontal two groups combined real-time mode			
		Mode sequence changes 17 :	Change mode output in fixed order: mode 1 to mode 16			
The mode changes randomly 18 :	Change the mode output in random order: mode 1 to mode 16					
Mode color sequence changes 19 :	Change in fixed order: mode 1-16 , full color or full color or colorful					
Mode color changes randomly 20 :	Change in random order: mode 1-16 , full color or full color or colorful					
<b>Short press button 2</b>	Select Spectral Color Mode	Color Mode 1 : 1	Full color one by one : a row or a column of colors gradually and automatically change		5	
		Color Mode 2 : 2	Group-by-group full color : four rows or four columns of color gradually change automatically			
		Color Mode 3 : 3	Full color screen by screen : full screen color changes automatically			
		Color Mode 4 : 4	Fixed full color : Spectrum / menu / clock are displayed in fixed full color. For the setting method, see "Function Menu Interface Operation"			
		Color Mode 5 : 5	One by one colorful : a row or a column of colors gradually and automatically change			
		Color Mode 6 : 6	Group-by-group colorful : four rows or four columns of colors gradually and automatically change			
		Color Mode 7 : 7	Screen-by-screen colorful : full screen color changes automatically			
		Color Mode 8 : OFF	Output off : turn off the spectrum display function			
2. Spectrum function menu interface operation (Available in Chinese / English / Russian)						
key operation	Function settings	Chinese display	English display	display in russian	Function Description	default
<b>1. Press and hold button 1</b> to enter the function setting interface. <b>2. Short press button 1</b> to change the setting parameters. <b>3. Time out for 8 seconds</b> or press <b>button 2</b> to exit quickly	set hour	set time	设置	ЧАСОВ	Set hour value	
	set minutes	set points	MIN	МИНУТ	Set the minute value	
	change duration	duration	L of M	ДЛИНА	ДЛИНА	In changing output modes 17 and 18 , the time interval for changing each mode, in seconds . Setting range: 3 seconds to 18 seconds
<b>Long press:</b> the key time is greater than 800ms . Has a long beep	mirror inversion	direction	MIRROR	ЗЕРКАЛ	0 : Spectrum is output by default 1 : Mirror output on the x-axis by default Y : y-axis mirror output by default	0
	Display optimization	optimization	BETTER	ОПТИ	1 : Choose from the changing 19/20 mode: colorful + full color 2 : Only select the color in the changing 19/20 mode: colorful 3 : Only select the color in the changing 19/20 mode: full color 4 : Optimize shift mode color, speed up shift	1
display speed	Speed	SPEED	СКОР	СКОР	1-4 : the larger the value, the higher the display refresh rate	2
night mode	BARK	DARK	ДАРК	АТК	Set the time period for night (dark) eye protection mode	prohibit
dimming	brightness	BRI	ЯРК	ЯРК	1-7 : levels of brightness adjustment A : Breathing mode, the brightness is adjusted by the spectral signal strength, the stronger the signal, the higher the brightness	7
color modulation	R G B	R G B	R G B	R G B	Color Mode 4 Fixed full-color RGB component settings: modulate your favorite colors as needed	
time display mode	time display	TIME-DS	ВРЕМЯ	ВРЕМЯ	0 : Turn off the clock display 1 : Fixed color hour, minute and second display mode 2 : Fixed color large font display mode A1 : Dynamic color hour, minute and second display method A2 : Dynamic color large font display method	A1
Sensitivity	Spirituality	SENS	ЧУВСТ	ЧУВСТ	1-4 : Detect the strength of the input signal, the higher the value, the greater the strength of the detected input signal	3
channel input	sound in	CH	Л	ЗВУК	Set left and right channel input (When using the voice control function, the "channel input" must be set to "left" )	left
Delay setting	delay	DELAY	В	ЗАДЕР	When there is no audio input, the time to display the clock is a#3 seconds	2
display order	explicit order	SEQ	В Д О П	В Д О П	1 : Frequency is displayed from low to high 2 : The middle frequency is low and the two sides are high display	low to high
set alarm 1	CLK1	CLK1	ЗВН1	ЗВН1	set alarm 1	prohibit
set alarm 2	CLK2	CLK2	ЗВН2	ЗВН2	set alarm 2	prohibit
3. One-key reset to factory settings						
In the running state, long press the "button 2" for more than 3 seconds, the screen will display HST, and there will be a long beep, indicating that the factory settings have been successfully restored.						