



Mooncell

Interactive Video Player

K2600 Specifications

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Updates History

<i>File Version</i>	<i>Release Date</i>	<i>Update History</i>
V1.0	2022/09/06	<i>First Release</i>
V1.1	2022/11/16	<i>The qty of the windows supported updated.</i>

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1 Product Overview

Product Introduction

K2600 adopts high-performance multi-core processor, main frequency 1.8G, onboard 4G RAM, 64G EMMC internal storage, powerful image processing capability and H264\H265 HD video hard decoding capability. K2600 supports 1 HDMI input and 2 HDMI output interfaces. It integrates computer, central controller and video player. It is simple in configuration and flexible in application. Instructions to play different scene videos, and can strobe according to instructions or low-frequency drum beats of music, suitable for KTV and bar rooms.



Product Features

- Support 1*HDMI input, can be superimposed with Android Windows
- Support 2*HDMI output, the screen can be spliced
- It supports to play the HD video or pictures and supports scaling, picture in picture or picture out picture.
- The device can be connected to the PC so as to use the WEB management function(website), with that the operation will be a lot easier.
- It can be connected with karaoke players and intelligent central controllers of different manufacturers.
- It supports to have multiple windows and the position or size of the windows can be adjusted, also the window can be superimposed.
- To switch the scenes with the buttons on the panel

- *Embedded hardware architecture, with a stable operation and is low power consumption*

Application Scenarios

Select the corresponding scene mode through the wall panel buttons or automatically analyze the audio drum beats. The music, video, and lighting of each mode are arranged in the same way, realizing the sound and light synchronization experience. It can be widely used in LED screens in KTV private rooms and bars and karaoke halls, and will be with significant advantages.

2 *Function Introduction*

Product Features

- *Built-in 64G EMMC internal storage, preinstalled a variety of scenes, and it runs automatically when it's turned on.*
- *It supports Gigabyte Ethernet Communication.*
- *There are 2 HDMI and both can output images independently, the image can be spliced to 3840*1080.*
- *It supports HDMI input+foreground+background,multiple layer overlay and picture in picture,picture outside picture.*
- *The HDMI signal from the external Karaoke Player can be displayed on the led screen with PIP operation, and the signal source can be switched.*
- *Visualized WEB operation, the position or size of the window can be freely adjusted and support to manage the source library.*
- *It support to have the windows in any combination,up to 8 windows can be created.*
- *It supports to set the transparency of the window.*
- *It supports the smooth and seamless superimposed playback of the text,image,video.*
- *It has multiple playback modes,such as:loop playback and command playback.*
- *It supports to adjust the brightness,red, green,blue color of the led screen.*
- *It supports video rotation at any angle, zoom, strobe, tiling, double speed and other special effects.*
- *It supports to use the USB Flash drive to update materials, and support three material copy methods: overwriting, clearing and appending.*
- *It supports the standard DMX512 lighting protocol, and to be connected with the Karaoke System so as to realize the linkage(interaction) of the video,music and lighting.*
- *It supports to manually switch the scene materials with the buttons on the wall panel.*

Format Requirements for signal source

<i>Video Format</i>	<i>MP4</i>
<i>Video Coding</i>	<i>H.264/H.265</i>
<i>Video Frame Rate</i>	<i>Recommended: 30fps</i>
<i>Video Resolution</i>	<i>Recommended:1920*1080</i>
<i>Video Bit Rate</i>	<i>Max Video Rate: 10000bps</i>
<i>Picture Format</i>	<i>JPG、JPEG、PNG,etc.</i>

Device Management

<i>Network Communication</i>	<i>LAN</i>
<i>Program Updating</i>	<i>Network or U Disk</i>
<i>Terminal Device</i>	<i>PC or other Intelligent Terminal Devices</i>
<i>Software Management</i>	<i>The device comes with a web sever, and the terminal can access the device through a browser</i>

DMX 512 Channels Illustration

<i>CH</i>	<i>Function</i>	<i>Channel Value</i>	<i>Illustration</i>
1	<i>Foreground Folder</i>	<i>1~255</i>	<i>Select the foreground directory, corresponding to 001~255 folders, 0 is empty</i>
2	<i>Foreground Folder</i>	<i>0</i>	<i>Randomly play the materials in the folder (no matter what mode the web is set to)</i>
		<i>1~255</i>	<i>Uni cast mode: the specified material is played in a loop Sequential mode: play the material with the specified value first, and then play other materials in sequence Random mode: play the material with the specified value first, and then play other materials randomly</i>
3	<i>Background Folder</i>	<i>1~255</i>	<i>Select the background directory, corresponding to 001~255 folders, 0 is empty</i>
4	<i>Background Material</i>	<i>0</i>	<i>Randomly play the materials in the folder (no matter what mode the web is set to)</i>
		<i>1~255</i>	<i>Uni cast mode: the specified material is played in a loop Sequential mode: play the material with the specified value first, and then play other materials in sequence Random mode: play the material with the specified value first, and then play other materials randomly</i>
5	<i>Background Light Adjustment</i>	<i>0~255</i>	<i>0: turn off the light, 1~255 increases the brightness proportionally, 255: maximum</i>
6	<i>Background Light Adjustment</i>	<i>0~255</i>	<i>0: turn off the light, 1~255 increases the brightness proportionally, 255: maximum</i>
7	<i>Strobe</i>	<i>0~255</i>	<i>0: no strobe, 255: the fastest (the slowest is 1 frame/s, the fastest is 30 frames/s)</i>
8	<i>RED</i>	<i>0~254</i>	<i>Brightness adjustment of red color during playback, 0: no red</i>

		255	<i>The entire led screen is pure red</i>
9	GREEN	0~254	<i>Brightness adjustment of green color during playback, 0: no green</i>
		255	<i>The entire led screen is pure green</i>
10	BLUE	0~254	<i>Brightness adjustment of blue color during playback, 0: no blue</i>
		255	<i>The entire led screen is blue</i>
11	Play Speed	0~255	<i>Play speed: 15 levels of speed</i>
12	PIP	0 21~30	<i>No window</i>
		1~10 41~50	<i>Enable the HDMI window of the HDMI OUT1 port</i>
		11~20 51~60	<i>Enable the HDMI window of the HDMI OUT2 port</i>
		31~40 250~255	<i>Simultaneously enable the HDMI window of the HDMI OUT1/OUT2 port</i>
		61~249	<i>Current Status: Closed</i>
13	Scaling(ZOOM)	0	<i>Original Resolution(scale):(window is not scaled)</i>
		1~50	<i>Enlarged (Zoom IN)</i>
		51~100	<i>ZOOM OUT</i>
		101~150	<i>Zoom Out dynamically</i>
		151~200	<i>Zoom in dynamically</i>
		201~255	<i>Dynamically zoom in and zoom out</i>
14	Rotation	0	<i>Normal</i>
		1~63	<i>0~360 Static Rotation</i>
		64~127	<i>0~360 clockwise infinite rotation, the larger the value, the faster</i>
		128~191	<i>0~360 counterclockwise infinite rotation, the larger the value, the faster</i>
		191~255	<i>Rotate one circle clockwise and one circle back, the larger the value, the faster</i>
15	Tiling	0	<i>Normal</i>
		1~50	<i>Tile Matrix 1*2</i>
		51~100	<i>Tile Matrix 1*3</i>
		101~150	<i>Tile Matrix 2*2</i>
16	Jitter	0~255	<i>Currently closed</i>
17	Reserved	0~255	<i>Currently closed</i>
18	Reserved	0~255	<i>Currently closed</i>
19	Reserved	0~255	<i>Currently closed</i>
20	Reserved	0~255	<i>Currently closed</i>

Using the USB Flash Drive to Import the materials

Create a third-level folder in the root directory of the USB Flash Drive:

- 1、MBBox/ktv/XXX*
- 2、MBBox/ktv_add/XXX*
- 3、MBBox/ktv_clear/XXX*

Note: Ktv、ktv_add、ktv_clear folders,among them only one of three can be chosen, and they cannot exist at the same time.

The XXX folder name is 001~255, copy the material files into the corresponding XXX folder

Three ways to import:

ktv (overwrite copy): the material in the USB Flash Drive directory will overwrite the same material in the corresponding directory of K2600

ktv_clear (clear copy): If there is XXX directory in the USB Flash Drive, clear the corresponding directory of K2600, and then copy the material

ktv_add (add copy): If there is a YY file in the XXX directory in the USB Flash Drive, and there is a file with the same name in the corresponding directory of K2600, a number will be added in front of the same file name in the USB Flash Drive, and then copied, without affecting the original material

3 Product Parameters

Basic Parameters

Performance	High Performance: CPU+GPU RAM 4G DDR3 High Speed Storage Internal storage: 64G EMMC high-speed storage
Network access method	Ethernet port
Video Port	1*HDMI Input, 2*HDMI Output
Supported Sending Card	Standard HDMI Output, support the sending cards of all brands

Hardware Introduction



Interface Illustration

Interface Name	Illustration
100-220VAC Power	Input Power Port: AC 100-220V50/60Hz
LAN	Gigabyte Ethernet Access
USB	1 *USB2.0+1*USB3.0 Ports, (USB Disk, Mouse could be connected to)
HDMI IN	1*HDMI Input
HDMI OUT	2*HDMI Output, resolution of each will be :1920*1080P
DMX512 Interface	2 *RJ45 DMX512 interfaces, directly connected with KTV intelligent control to realize sound and light interaction
RS485 Interface	2* RJ45 568B standard, connect the wall panel to switch the scene

<i>AUDIO Input/ Output</i>	<i>2 groups of audio input and output interfaces: Group 1, disc player audio input: XLR/RCA, audio output: RCA Group 2, VOD audio input: RCA, audio output: RCA share 1 group of RCA output, connect to the audio interface of the smart central controller, real-time audio inspection, realize sound and light linkage(interaction).</i>
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Front Panel Keys



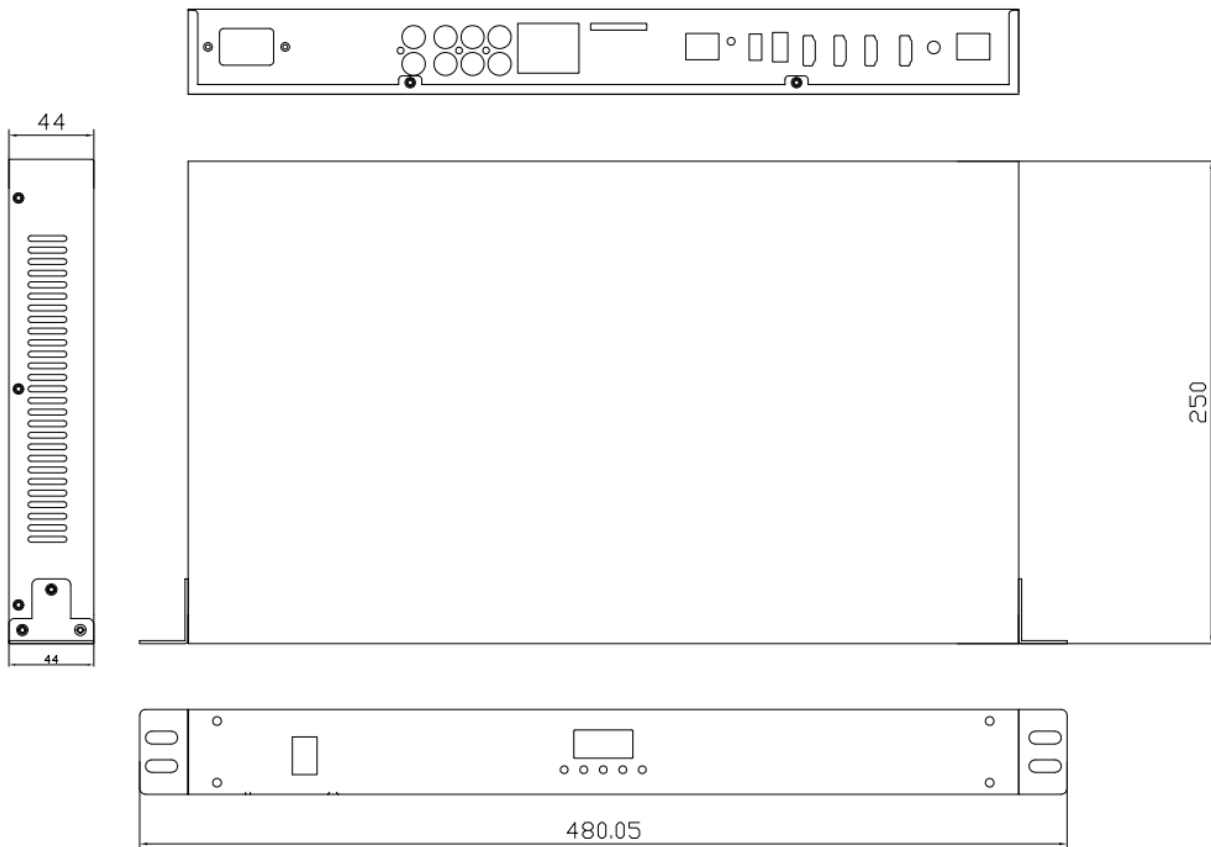
<i>Name</i>	<i>Indicator Illustration</i>
<i>Add</i>	<i>Increase the Value</i>
<i>Minus</i>	<i>Decrease the value</i>
<i>Menu</i>	<i>menu selection key</i>
<i>Confirm</i>	<i>After selecting the function and setting value, press the enter key to save</i>
<i>ESC</i>	<i>Exit menu selection</i>

Menu code value description

<i>Menu Code Value</i>	<i>Illustration</i>
<i>0102</i>	<i>Under normal circumstances, the digital tube displays 4 digits. The first 2 digits (01): represent the directory, and the last two digits (02): represent the material number in the directory</i>
<i>A001-A512</i>	<i>Represents the address code of the controller</i>
<i>-FE- -DE-</i>	<i>512 Receive mode selection: normal use DE to receive</i>

Product Dimensions

Unit:MM



4 Product Parameters

Parameters

<i>Electric Parameters</i>	<i>Input Voltage</i>	<i>AC 100-220V 50/60Hz</i>
	<i>Rated Power</i>	<i>15W</i>
<i>Working Environment</i>	<i>Working Temperature</i>	<i>-20 °C - 65 °C</i>
	<i>Working Humidity</i>	<i>10%RH-90%RH No solidification</i>
<i>Dimensions</i>	<i>Unit Dimensions: 430mm x 250mm x 44mm</i>	
<i>Net Weight</i>	<i>3.7kg</i>	
<i>Peripherals</i>	<i>220V PowerCord*1、HDMI Cable *2、Network Cable*1</i>	

Precautions:

The installation process must be completed by professionals.

High voltage danger: The working voltage of this product is AC -100V~240V.

Must be anti-static.

Please pay attention to waterproof and dust-proof.