摩西尔 Mooncell

PRODUCT SPECIFICATION
V4.1 | ENGLISH

KS204

AUDIO-VISUAL SHOW CONTROL MEDIA PLAYER

Integrated media playback, LED display control and synchronized lighting-music-video scene triggering.

2.6 MP	4 x 1 GbE	2 IN / 1 OUT	DMX512
LED LOAD CAPACITY	LED DATA OUTPUTS	HDMI INTERFACES	SHOW CONTROL

KTV | PARTY ROOM | BAR | IMMERSIVE ENTERTAINMENT

SECTION 01

PRODUCT OVERVIEW

An integrated player and LED display-control platform for synchronized entertainment-show playback.

The KS204 is a cost-effective Audio-Visual Show Control Media Player with an integrated 4-port LED display-control engine. A high-performance multicore processor clocked at 1.8 GHz, 4 GB RAM and 64 GB eMMC storage provide strong image processing and H.264/H.265 HD hardware decoding. Designed for KTV rooms, party rooms, bars and similar entertainment venues, it coordinates lighting, music and video through DMX512, audio detection and scene-based control.

2,600,000 pixels	64 GB eMMC	12 windows	15360 x 15360
TOTAL LED CAPACITY	INTERNAL STORAGE	MAXIMUM PLAYBACK WINDOWS	MAXIMUM SCALING WIDTH / HEIGHT

Application Positioning

- KTV and karaoke rooms requiring video, music and lighting to respond as one programmed scene.
- Party rooms and bars using wall-panel, mobile-app or DMX512 commands to recall visual modes.
- LED installations that combine local media, external HDMI sources, multi-window composition and synchronized output.

Revision History

Document	Hardware	Release Date	Change
V4.0	KS204 V1.0.0	19 Aug 2025	Initial document release.
V4.1	KS204 V1.0.0	6 Nov 2025	Updated the PIP definitions in the DMX512 channel table.

SECTION 02

SYSTEM ROLE & SIGNAL FLOW

Local playback, external HDMI, scene control and LED data output are integrated in one 1U platform.

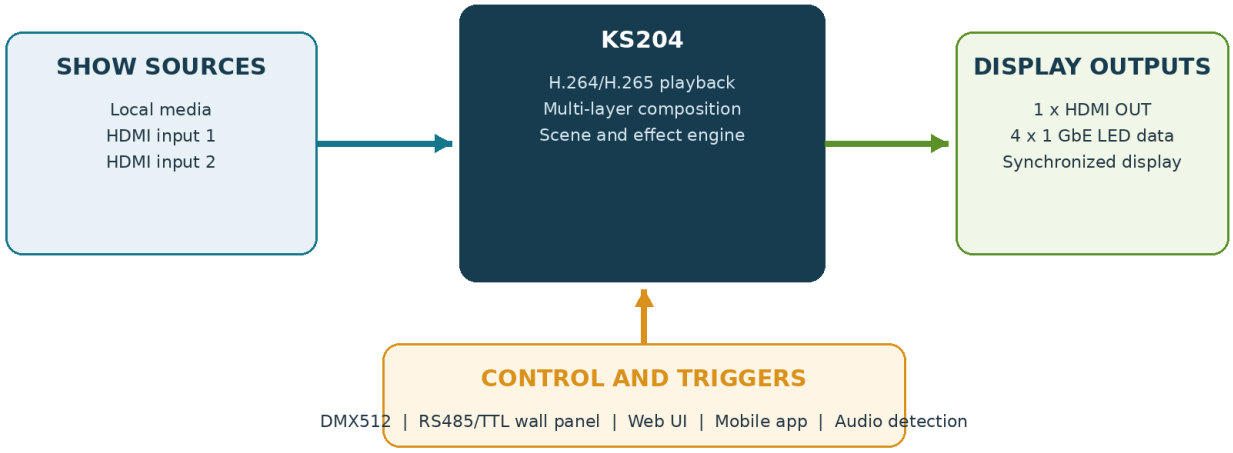

Figure 1. KS204 combines media playback, multi-layer composition and synchronized display output.

Functional Block	Role
Media Processing	H.264/H.265 hardware decoding, image playback and local 64 GB eMMC media storage.
Layer Composition	HDMI input + foreground + background composition, PIP/POP, opacity, scaling and visual effects.
Show Control	DMX512, wall-panel commands, central-control integration, mobile app and audio-reactive triggering.
Display Delivery	One HDMI output plus 4 Gigabit Ethernet LED data outputs with synchronized playback.

SCENE RECALL A wall-panel command or DMX512 value recalls the corresponding scene mode so the assigned video, music and lighting behavior can run together.

SECTION 03

SIGNAL I/O & OPERATING FEATURES

Professional terminology is used for LED data paths, source composition and show-control functions.

Signal Interfaces

Path	Capability
Video inputs	2 x HDMI IN; the external HDMI picture can be composited with the local Android/player picture.
Video output	1 x HDMI OUT.
LED data output	4 x Gigabit Ethernet LED data outputs; total capacity 2,600,000 pixels.
Synchronized display	Output images can be tiled across the LED data outputs and played synchronously.

Playback and Composition

- HD video and image playback with scaling, picture-in-picture (PIP) and picture-outside-picture (POP).
- HDMI input + foreground + background multi-layer composition.
- Arbitrary window size and position through the Web UI, with up to 12 playback windows.
- Text, image and video overlays with smooth, seamless switching.
- 5D content slicing for multi-surface image composition.
- Adjustable opacity, rotation, scaling, strobe, tiling and playback-speed effects.

Show Control and Automation

- Standard DMX512 control for synchronized video, music and lighting scenes.
- Interoperability with third-party karaoke/VOD systems and intelligent central-control systems.
- Front-panel scene switching, audio-detection window control and DMX512 control.
- Mobile-app and wall-panel scene recall.
- Embedded hardware architecture for stable, low-power operation.

SECTION 04

MEDIA, STORAGE & DEVICE MANAGEMENT

Recommended source-media parameters and browser-based management functions.

Media Requirements

Item	Source Requirement
Video container	MP4
Video codec	H.264 / H.265
Recommended frame rate	30 fps
Recommended resolution	1920 x 1080
Maximum bit rate	20,000 bps - source value; verify the intended unit before publication.
Image formats	JPG, JPEG and PNG

SOURCE-VALUE CHECK The Chinese source states 20,000 bps. This value is retained exactly; confirm whether 20,000 kbps was intended before customer release.

Device Management

Function	Implementation
Network communication	LAN communication over Gigabit Ethernet.
Program update	Update content over the network or from a USB flash drive.
Management terminal	PC or another compatible smart terminal.
Management software	Embedded Web server; configure and manage the device through a standard browser.
Media library	Upload, organize and manage local media through the Web interface.
Playback modes	Loop playback, command-triggered playback and other scene-oriented modes.

SECTION 05

HARDWARE OVERVIEW & INTERFACE REFERENCE

Clean product views are used; interface descriptions are translated below the hardware images.

Rear panel - KS204. Product appearance is for reference; the delivered unit prevails.

Front panel - KS204.

Interface	Description
AC input	AC power inlet. Rear-interface source text lists 100-220 V, 50/60 Hz; rated specification lists 100-240 V.
LAN	Gigabit Ethernet network connection.
USB	2 x USB 3.0 for a USB flash drive, mouse or other supported peripherals.
HDMI IN	2 x HDMI input.
HDMI OUT	1 x HDMI output at 1920 x 1080p.
LED data outputs	4 x Gigabit Ethernet LED data outputs.
DMX512	2 x RJ45, T568B wiring; direct connection to a KTV intelligent-control system for audio-light-video linkage.
RS485	2 x RJ45, T568B wiring; wall-panel scene switching.
TTL	1 x RJ45, T568B wiring; wall-panel scene switching.
Audio I/O	Two RCA audio paths: VOD input/output and DJ input/output. One shared RCA output connects to the central controller for real-time audio detection and synchronized scene triggering.

SECTION 06

FRONT-PANEL CONTROLS

Physical button functions and menus A-D.

Button	Function
Plus	Increase a value.
Minus	Decrease a value.
Menu	Select a function menu.
Confirm	Save the selected function or value.
Exit	Exit the current function menu.

Menus A-D

A - DMX512 Address
Set the DMX512 start address with Plus/Minus.

B - Filter Frames
Set DMX512 data filtering; default value: 3.

C - DHCP / IP
Cycles the current IP and provides DHCP operation codes.

D - Log Storage
0 = save logs; 1 = do not save logs.

DHCP / IP MENU DETAILS The first value indicates the IP mode: 01 = static and 00 = dynamic. The illustrated static address is 192.168.1.100. In the setting screen: 0 = enable DHCP, 1 = disable DHCP, and 2 = acquire an IP address.

SECTION 06

FRONT-PANEL MENUS F-K

HDMI source status, beat-response parameters, MCU state and audio-level threshold.

F - HDMI Input

F001 = HDMI IN 1; F002 = HDMI IN 2. With one active source, selection is automatic. With two active sources, select 1 or 2 and press Confirm.

G - Beat Coefficient

Beat-source data coefficient. Default: 6.

H - Beat Minimum

Minimum beat-data threshold. Default: 40.

I - Beat Maximum

Maximum beat-data threshold. Default: 140.

J - MCU Status

Displays a configuration-dependent MCU status code. Do not adjust under normal operation.

K - dB Setting

For louder audio, use a smaller or negative value. Default: 3.

OPERATING NOTE The front-panel photographs show the physical product labels. English captions in this specification define the function of each menu.

SECTION 07

USB MEDIA IMPORT

Three mutually exclusive folder modes support overwrite, clear-and-copy and append workflows.

Create the Folder Structure

1. Create one of the following three-level folder paths in the root directory of the USB flash drive.
2. Name the XXX folder from 001 to 255, then copy the media files into the corresponding numbered folder.
3. Insert the USB flash drive and allow the selected import mode to complete before removing it.

Mode	USB Root Path
Overwrite	`MBBox/ktv/XXX`
Clear and copy	`MBBox/ktv_clear/XXX`
Append	`MBBox/ktv_add/XXX`

IMPORTANT Only one of the ktv, ktv_clear or ktv_add folders may exist on the USB flash drive at a time.

Import Behavior

Folder	Behavior
ktv	Overwrite: media on the USB drive replaces files with the same name in the corresponding KS204 directory.
ktv_clear	Clear and copy: when the USB drive contains an XXX directory, the corresponding KS204 directory is cleared before the new media is copied.
ktv_add	Append: if an identically named YY file already exists, KS204 prefixes a number to the incoming filename and imports it without changing the original file.

Other Content-Update Methods

Programs and media can also be updated over the network through the embedded Web management interface.

SECTION 08

MECHANICAL ENVELOPE & PACKAGING

Dimensions are in millimetres unless otherwise stated.

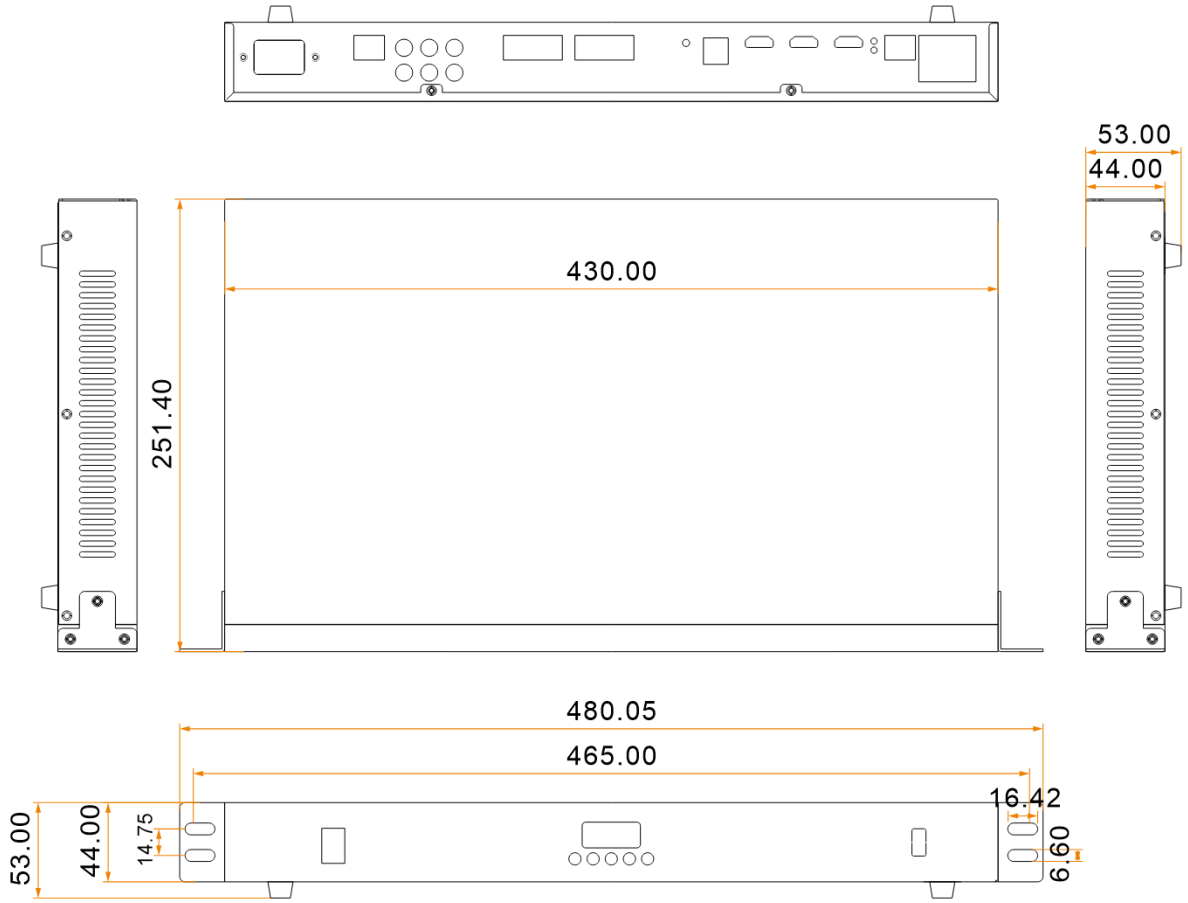

Figure 2. KS204 mechanical drawing. Drawing tolerance: +/-0.3 mm.

Item	Specification
Chassis size	480.05 x 251.4 x 53 mm, including mounting ears and feet.
Main enclosure width	430.00 mm shown in the source drawing.
Mounting width	465.00 mm shown in the source drawing.
Net weight	2.84 kg
Outer carton	515 x 130 x 355 mm
Gross weight	3.96 kg per unit, including accessories and packaging
Packing quantity	3 units per carton
Included accessories	1 x HDMI cable, 1 x power cable, 1 x Ethernet cable, 1 x audio cable and 1 x certificate of conformity.

SECTION 09

TECHNICAL SPECIFICATIONS

Performance, processing, interfaces and environmental limits.

Display and Processing

Category	Parameter	Specification
LED capacity	Per output	650,000 pixels
LED capacity	Total	2,600,000 pixels
Processing	Processor	High-performance CPU + GPU
Processing	Memory	4 GB DDR3 RAM
Processing	Internal storage	64 GB high-speed eMMC
Network	Access	Gigabit Ethernet
Video interfaces	Inputs / outputs	2 x HDMI IN, 1 x HDMI OUT, 4 x LED data outputs
USB	Ports	2 x USB 3.0
Composition	Maximum windows	12 playback windows
Scaling	Maximum width / height	15360 x 15360

Electrical and Environmental

Category	Parameter	Specification
Electrical	Rated input	AC 100-240 V, 50/60 Hz
Electrical	Rated power	11 W
Environment	Operating temperature	-20 C to +70 C
Environment	Operating humidity	10%-90% RH, non-condensing

AC INPUT VERIFICATION The rear-interface description in the source lists AC 100-220 V, while the rated-input table and safety section list AC 100-240 V. Confirm the final product label before external publication.

SECTION 10

INSTALLATION, SAFETY & DOCUMENT CONTROL

Read and retain these requirements before installing or operating the product.

Safety Requirements

- Installation must be completed by qualified personnel.
- High voltage hazard: the product operates from AC 100-240 V. Disconnect power before service.
- Use appropriate electrostatic-discharge (ESD) protection during installation and maintenance.
- Protect the product from water ingress and dust accumulation.

PRODUCT IMAGES Product images are for reference only. The actual delivered product prevails.

Publication Verification Notes

Check	Source-Control Note
Video bit rate	Source states 20,000 bps; confirm whether the intended unit is kbps.
AC input	Source uses both 100-220 V and 100-240 V; confirm the production label and approved rating.
Undefined DMX values	Where the source table leaves an action blank, this English reference marks the value as reserved or not specified.
V2.0 PIP port mapping	The V2.0 source table explicitly references LED output Ports 1-2; the V3.0 table references Ports 1-4.

Document Control

Document	Language	Hardware	Release
Product Specification V4.1	English	KS204 V1.0.0	6 Nov 2025

DMX512 / V2.0 / PART 1

DMX512 CONTROL REFERENCE - V2.0

Channels 1-10: media folders, media selection, opacity, strobe and RGB control.

V2.0	9.2.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
1	Foreground Folder	0-255	0 = off; 1-255 = select the corresponding folder. Channels 1 and 3 cannot both be 0.
2	Foreground Media	0	Randomly play media in the selected folder, regardless of the playback mode configured in the Web UI.
2	Foreground Media	1-255 / single	Single-item mode: loop the selected media item.
2	Foreground Media	1-255 / sequence	Sequence mode: play the selected item first, then continue with the remaining items in sequence.
2	Foreground Media	1-255 / random	Random mode: play the selected item first, then play the remaining items randomly.
3	Background Folder	0-255	0 = off; 1-255 = select the corresponding folder. Channels 1 and 3 cannot both be 0.
4	Background Media	0	Randomly play media in the selected folder, regardless of the playback mode configured in the Web UI.
4	Background Media	1-255 / single	Single-item mode: loop the selected media item.
4	Background Media	1-255 / sequence	Sequence mode: play the selected item first, then continue with the remaining items in sequence.
4	Background Media	1-255 / random	Random mode: play the selected item first, then play the remaining items randomly.
5	Foreground Opacity	0-255	0 = off; 1-255 = opacity decreases proportionally in 10-value steps; 255 = lowest opacity.
6	Background Opacity	0-255	0 = off; 1-255 = opacity decreases proportionally in 10-value steps; 255 = lowest opacity.
7	Strobe	0	Off.
7	Strobe	1-96	1-32 = all layers; 33-64 = foreground; 65-96 = background. Strobe rate increases proportionally from approximately 1 frame/s to 30 frames/s. Values 97-255 are not specified.
8	Red Level	0-255	0 = no red effect; 1-254 = adjust red brightness during playback; 255 = full-screen red.
9	Green Level	0-255	0 = no green effect; 1-254 = adjust green brightness during playback; 255 = full-screen green.
10	Blue Level	0-255	0 = no blue effect; 1-254 = adjust blue brightness during playback; 255 = full-screen blue.

DMX512 / V2.0 / PART 2

DMX512 CONTROL REFERENCE - V2.0

Channels 11-13: playback speed, HDMI/PIP window routing and scaling.

V2.0	9.2.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

PROFILE NOTE The source V2.0 PIP table references LED output Ports 1-2 for both models.

CH	Function	Value	Action / Mapping
11	Playback Speed	0-60 / all	0-10 = normal; 11-20 = 2x; 21-30 = 1.5x; 31-40 = 0.8x; 41-50 = 0.5x; 51-60 = pause.
11	Playback Speed	61-120 / foreground	61-70 = normal; 71-80 = 2x; 81-90 = 1.5x; 91-100 = 0.8x; 101-110 = 0.5x; 111-120 = pause.
11	Playback Speed	121-180 / background	121-130 = normal; 131-140 = 2x; 141-150 = 1.5x; 151-160 = 0.8x; 161-170 = 0.5x; 171-180 = pause. Values 181-255 are not specified.
12	PIP Window Control	0	Close the HDMI window.
12	PIP Window Control	1-10	Open the HDMI window on LED output Ports 1-2.
12	PIP Window Control	11-20	Open the HDMI window on HDMI OUT.
12	PIP Window Control	21-30	Close all HDMI windows.
12	PIP Window Control	31-40	Open all HDMI windows.
12	PIP Window Control	41-50	Open the HDMI window on LED output Ports 1-2.
12	PIP Window Control	51-60	Open the HDMI window on HDMI OUT.
12	PIP Window Control	61-255	Close all HDMI windows.
13	Scaling	0	No scaling.
13	Scaling	1-50 / all	1-10 proportional zoom up to 3x; 11-20 proportional shrink down to 1 pixel; 21-30 animate from 1 pixel to the original window; 31-40 animate from original size to 3x; 41-50 animate from 1 pixel to 3x. Higher values increase animation speed.
13	Scaling	51-100 / foreground	51-60 proportional zoom; 61-70 proportional shrink; 71-80 animate from 1 pixel to original; 81-90 animate from original to 3x; 91-100 animate from 1 pixel to 3x. Higher values increase speed.
13	Scaling	101-150 / background	101-110 proportional zoom; 111-120 proportional shrink; 121-130 animate from 1 pixel to original; 131-140 animate from original to 3x; 141-150 animate from 1 pixel to 3x. Higher values increase speed.

DMX512 / V2.0 / PART 3

DMX512 CONTROL REFERENCE - V2.0

Channels 14-16: rotation, tiling and audio-source selection.

V2.0	9.2.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
14	Rotation	0	No rotation.
14	Rotation	1-50 / all	1-10 static angle from 0 to 360 degrees; 11-20 clockwise; 21-30 counterclockwise; 31-40 alternate one clockwise and one counterclockwise revolution; 41-50 no rotation. Higher values increase speed where applicable.
14	Rotation	51-100 / foreground	51-60 static angle; 61-70 clockwise; 71-80 counterclockwise; 81-90 alternating clockwise/counterclockwise; 91-100 no rotation. Higher values increase speed.
14	Rotation	101-255 / background	101-110 static angle; 111-120 clockwise; 121-130 counterclockwise; 131-140 alternating clockwise/counterclockwise; 141-255 no function.
15	Tiling	0	Off.
15	Tiling	1-16 / all	1=1x2; 2=1x3; 3=1x4; 4=2x1; 5=2x2; 6=2x3; 7=2x4; 8=3x1; 9=3x2; 10=3x3; 11=3x4; 12=4x1; 13=4x2; 14=4x3; 15=4x4; 16=close all.
15	Tiling	17-32 / foreground	17=1x2; 18=1x3; 19=1x4; 20=2x1; 21=2x2; 22=2x3; 23=2x4; 24=3x1; 25=3x2; 26=3x3; 27=3x4; 28=4x1; 29=4x2; 30=4x3; 31=4x4; 32=close all.
15	Tiling	33-48 / background	33=1x2; 34=1x3; 35=1x4; 36=2x1; 37=2x2; 38=2x3; 39=2x4; 40=3x1; 41=3x2; 42=3x3; 43=3x4; 44=4x1; 45=4x2; 46=4x3; 47=4x4; 48=close all.
16	Audio Selection	0	Off.
16	Audio Selection	1-10	Switch to the VOD audio channel.
16	Audio Selection	11-20	Switch to the DJ audio channel.
16	Audio Selection	21-30	Built-in audio: play the selected MP3 once.
16	Audio Selection	31-40	Built-in audio: loop the selected MP3.
16	Audio Selection	41-255	Off.

DMX512 / V2.0 / PART 4

DMX512 CONTROL REFERENCE - V2.0

Channels 17-20: visual effects, screen-chase groups, slice groups and audio tracks.

V2.0	9.2.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
17	Visual Effect	0	Off.
17	Visual Effect	1-20	1-10 diagonal shake from upper-left to lower-right; 11-20 random shake. Higher values increase speed.
17	Visual Effect	21-40	21-30 slide in left-to-right, bounce, then stop; 31-40 slide in left-to-right, bounce, then loop. Higher values increase speed.
17	Visual Effect	41-60	41-50 slide in right-to-left, bounce, then stop; 51-60 slide in right-to-left, bounce, then loop. Higher values increase speed.
17	Visual Effect	61-80	61-70 slide in bottom-to-top, bounce, then stop; 71-80 slide in bottom-to-top, bounce, then loop. Higher values increase speed.
17	Visual Effect	81-100	81-90 slide in top-to-bottom, bounce, then stop; 91-100 slide in bottom-to-top, bounce, then loop, as stated in the source. Higher values increase speed.
17	Visual Effect	101-120	101-110 centre page-turn left-to-right through 360 degrees, then stop; 111-120 repeat continuously. Higher values increase speed.
17	Visual Effect	121-140	121-130 centre page-turn right-to-left through 360 degrees, then stop; 131-140 repeat continuously. Higher values increase speed.
18	Screen Chase Group	0	Off.
18	Screen Chase Group	1-100	Each block of 10 selects Screen Chase Group 1-10; higher values within each block increase speed (1-10 = Group 1 ... 91-100 = Group 10).
19	Slice Group	0	Off.
19	Slice Group	1-50	1-10 = Group 1; 11-20 = Group 2; 21-30 = Group 3; 31-40 = Group 4; 41-50 = Group 5.
20	Audio Track	0	Off.
20	Audio Track	1-15	Select Track 1-15. Name files as musicMode_1_*.mp3; the asterisk may be replaced by any text or characters.
20	Audio Track	16-255	Off.

DMX512 / V3.0 / PART 1

DMX512 CONTROL REFERENCE - V3.0

Channels 1-10: media folders, media selection, opacity, strobe and RGB control.

V3.0	9.3.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
1	Foreground Folder	0-255	0 = off; 1-255 = select the corresponding folder. Channels 1 and 3 cannot both be 0.
2	Foreground Media	0	Randomly play media in the selected folder, regardless of the playback mode configured in the Web UI.
2	Foreground Media	1-255 / single	Single-item mode: loop the selected media item.
2	Foreground Media	1-255 / sequence	Sequence mode: play the selected item first, then continue with the remaining items in sequence.
2	Foreground Media	1-255 / random	Random mode: play the selected item first, then play the remaining items randomly.
3	Background Folder	0-255	0 = off; 1-255 = select the corresponding folder. Channels 1 and 3 cannot both be 0.
4	Background Media	0	Randomly play media in the selected folder, regardless of the playback mode configured in the Web UI.
4	Background Media	1-255 / single	Single-item mode: loop the selected media item.
4	Background Media	1-255 / sequence	Sequence mode: play the selected item first, then continue with the remaining items in sequence.
4	Background Media	1-255 / random	Random mode: play the selected item first, then play the remaining items randomly.
5	Foreground Opacity	0-255	0 = black screen; 1-255 = opacity decreases proportionally in 10-value steps; 255 = lowest opacity.
6	Background Opacity	0-255	0 = black screen; 1-255 = opacity decreases proportionally in 10-value steps; 255 = lowest opacity.
7	Strobe	0	Off.
7	Strobe	1-255	1-10 media-screen flash; 11-20 red burst; 21-30 orange; 31-40 yellow; 41-50 green; 51-60 blue; 61-70 purple; 71-80 white; 81-255 off.
8	Red Level	0-255	0 = off; 1-255 = adjust red brightness from minimum (1) to maximum (255).
9	Green Level	0-255	0 = off; 1-255 = adjust green brightness from minimum (1) to maximum (255).
10	Blue Level	0-255	0 = off; 1-255 = adjust blue brightness from minimum (1) to maximum (255).

DMX512 / V3.0 / PART 2

DMX512 CONTROL REFERENCE - V3.0

Channels 11-13: playback speed, dual-source HDMI/PIP routing and scaling.

V3.0	9.3.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
11	Playback Speed	0-60 / all	0-10 = normal; 11-20 = 2x; 21-30 = 1.5x; 31-40 = 0.8x; 41-50 = 0.5x; 51-60 = pause.
11	Playback Speed	0-60 / foreground	0-10 = normal; 11-20 = 2x; 21-30 = 1.5x; 31-40 = 0.8x; 41-50 = 0.5x; 51-60 = pause, as listed in the source.
12	PIP Window Control	0	No action is defined in the source table.
12	PIP - Source 1	1-10	Open the HDMI window on LED output Ports 1-4.
12	PIP - Source 1	11-20	Open the HDMI window on HDMI OUT.
12	PIP - Source 1	21-30	Close all HDMI windows.
12	PIP - Source 1	31-40	Open all HDMI windows.
12	PIP - Source 1	41-50	Open the HDMI window on LED output Ports 1-4.
12	PIP - Source 1	51-60	Open the HDMI window on HDMI OUT.
12	PIP - Source 1	61-70	Open all HDMI windows.
12	PIP - Source 2	71-80	Open the HDMI window on LED output Ports 1-4.
12	PIP - Source 2	81-90	Open the HDMI window on HDMI OUT.
12	PIP - Source 2	91-100	Close all HDMI windows.
12	PIP - Source 2	101-110	Open all HDMI windows.
12	PIP - Source 2	111-120	Open the HDMI window on LED output Ports 1-4.
12	PIP - Source 2	121-130	Open the HDMI window on HDMI OUT.
12	PIP - Source 2	131-140	Open all HDMI windows.
12	PIP Window Control	141-255	Reserved / no action specified in the source.
13	Scaling	0	No scaling.
13	Scaling	1-50 / all	1-10 proportional zoom up to 3x; 11-20 proportional shrink down to 1 pixel; 21-30 animate from 1 pixel to original; 31-40 animate from original to 3x; 41-50 animate from 1 pixel to 3x. Higher values increase speed.
13	Scaling	51-100 / foreground	51-60 proportional zoom; 61-70 proportional shrink; 71-80 animate from 1 pixel to original; 81-90 animate from original to 3x; 91-100 animate from 1 pixel to 3x. Higher values increase speed.
13	Scaling	101-150 / background	101-110 proportional zoom; 111-120 proportional shrink; 121-130 animate from 1 pixel to original; 131-140 animate from original to 3x; 141-150 animate from 1 pixel to 3x. Higher values increase speed.

DMX512 / V3.0 / PART 3

DMX512 CONTROL REFERENCE - V3.0

Channels 14-16: three-axis rotation, tiling and expanded audio selection.

V3.0	9.3.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
14	Rotation	0	No rotation.
14	Rotation	1-80 / all	1-10 static angle; 11-20 clockwise; 21-30 counterclockwise; 31-40 alternating clockwise/counterclockwise; 41-50 X-axis outside-to-inside; 51-60 X-axis inside-to-outside; 61-70 Y-axis outside-to-inside; 71-80 Y-axis inside-to-outside. Higher values increase speed.
14	Rotation	81-160 / foreground	81-90 static angle; 91-100 clockwise; 101-110 counterclockwise; 111-120 alternating; 121-130 X-axis outside-to-inside; 131-140 X-axis inside-to-outside; 141-150 Y-axis outside-to-inside; 151-160 Y-axis inside-to-outside.
14	Rotation	161-240 / background	161-170 static angle; 171-180 clockwise; 181-190 counterclockwise; 191-200 alternating; 201-210 X-axis outside-to-inside; 211-220 X-axis inside-to-outside; 221-230 Y-axis outside-to-inside; 231-240 Y-axis inside-to-outside.
15	Tiling	0	Off.
15	Tiling	1-16 / all	1=1x2; 2=1x3; 3=1x4; 4=2x1; 5=2x2; 6=2x3; 7=2x4; 8=3x1; 9=3x2; 10=3x3; 11=3x4; 12=4x1; 13=4x2; 14=4x3; 15=4x4; 16=close all.
15	Tiling	17-32 / foreground	17=1x2; 18=1x3; 19=1x4; 20=2x1; 21=2x2; 22=2x3; 23=2x4; 24=3x1; 25=3x2; 26=3x3; 27=3x4; 28=4x1; 29=4x2; 30=4x3; 31=4x4; 32=close all.
15	Tiling	33-48 / background	33=1x2; 34=1x3; 35=1x4; 36=2x1; 37=2x2; 38=2x3; 39=2x4; 40=3x1; 41=3x2; 42=3x3; 43=3x4; 44=4x1; 45=4x2; 46=4x3; 47=4x4; 48=close all.
16	Audio Selection	0	Off.
16	Audio Selection	1-10	Switch to the VOD audio channel.
16	Audio Selection	11-20	Switch to the DJ audio channel.
16	Audio Selection	21-30	Use the built-in media audio.
16	Audio Selection	31-45	Built-in audio: play one MP3 once. Fifteen channel values correspond to fifteen tracks.
16	Audio Selection	46-60	Built-in audio: loop one MP3. Fifteen channel values correspond to fifteen tracks.

DMX512 / V3.0 / PART 4

DMX512 CONTROL REFERENCE - V3.0

Channels 17-18: visual effects and screen-chase groups.

V3.0	9.3.1.XX	DMX512	1 universe
CONTROL PROFILE	SOFTWARE BRANCH	PROTOCOL	CHANNEL SPACE

CH	Function	Value	Action / Mapping
17	Visual Effect	0	Off.
17	Visual Effect	1-10	Foreground cube rotates from right to left; higher values increase speed.
17	Visual Effect	11-20	Foreground cube rotates from left to right; higher values increase speed.
17	Visual Effect	21-30	Foreground cube rotates from top to bottom; higher values increase speed.
18	Screen Chase Group	0	Off.
18	Screen Chase Group	1-100	Each block of 10 selects Screen Chase Group 1-10; higher values within each block increase speed (1-10 = Group 1 ... 91-100 = Group 10).

DMX512 Interpretation Notes

FOLDER AND MEDIA CHANNELS Channels 1-4 select foreground/background folders and media according to the Web playback mode.

SPEED RANGES Where stated, higher values within a mapped subrange increase the effect or animation speed.

RESERVED VALUES A reserved value is one for which the original source table provides no defined action.

PIP PATH In V3.0, KS204 maps HDMI windows to LED output Ports 1-4 and HDMI OUT for Source 1 and Source 2.

摩西尔 Mooncell

AUDIO-VISUAL SHOW CONTROL

KS204 PRODUCT SPECIFICATION

After-Sales Service Hotline: 400-881-3531

Website: www.mooncell.com.cn

Professional LED Display Control Systems

Product information is subject to change without prior notice.