POSPAD™ Android 4K Touch Media Player

OPERATING MANUAL

The best Android 4K Touch Media Player built for digital signage use

Please keep this operating manual for future reference

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1. Introduction

The MB4KM player is nothing like Android Smart TV box or Android USB Dongle, but thoughtfully designed for industrial application or commercial use in retail shops, or other public places such as banks, hospitals, schools, etc, running 24/7. It can upscale 1080P content to distinctive 4K resolution as well as play native 4K 50ftps/60ftps videos.

With integrated hardware and software for industrial and retail use, adding features such as robust case, VESA mounting, TF protection system, anti-theft system, Multiple 5 x USB 2.0 ports, RS232 port and additional SATA hard disk function, the MB4KM player can be an ideal and complete solution for the demanding retail digital signage or industrial applications.

Main Features

(1) CPU: RK3288 28nm Cortex-A17 Quad core @ 1.8Ghz
(2) GPU: Embedded Mali-T764 3D GPU, OpenGL ES 1.1/2.0 /3.0,and OpenCL 1.1.
(2) RAM: 2GB DDR3 native
(3) Native SAMSUNG eMMC Flash high-liability 16GB/32GB/64GB OPTION
(4) OS: Android
(5) I/O ports: 2 x RJ45(with optional PoE function),5 x USB 2.0 HOST (One can be switched to OTG port),1 x HDMI out,1 x earphone,1 x TF card slot, 1 x S P D I F o u t p u t , 1 x D C j a c k
(6) Support Video: MPEG-1, MPEG-2, MPEG-4,H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC 4K/2K 60FPS
(7) WIFI: 2.4GHz/5GHz WiFi 802.11 b/g/n and 802.11 a
(8) Ethernet 10/100/1000Mbps
(9) BLUETOOTH: Built-in BLE 4.0

(10) Support IR Remote control

Specifications are subject to change without notice.

2. Safety Precautions

(1) The unit is for indoor use only.
(2) To reduce the risk of fires or electric shock, do not expose the unit to rain or moisture.
(3) Do not block the ventilation holes on the back of unit at any time.
(4) Do not subject the unit to severe shocking
(5) Prevent any foreign matter falling into the external slot.
(6) Do not open the case of the unit. There is a risk of electric shock, and there are no user serviceable parts inside. Opening the case will void your warranty.

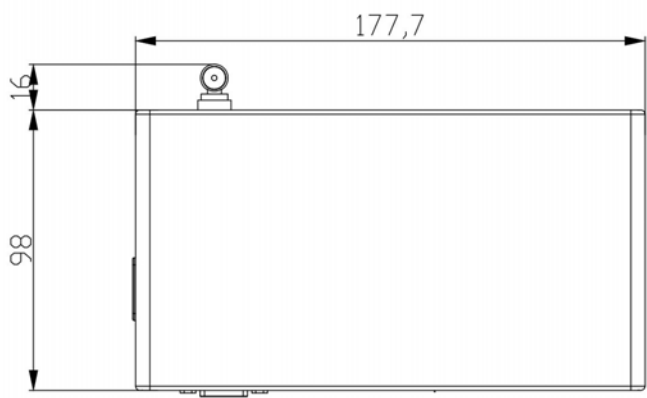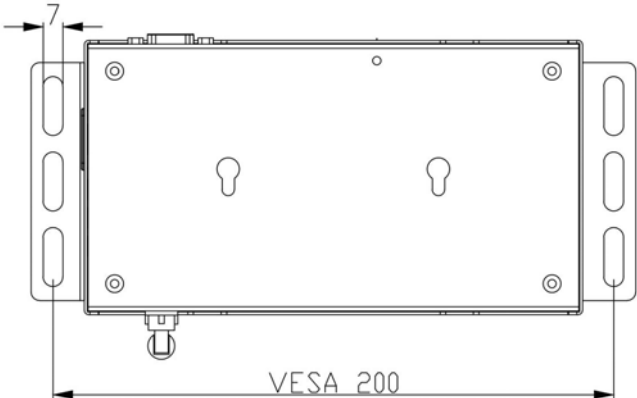# 3. Front, Side, Top and Bottom view of player

Front View
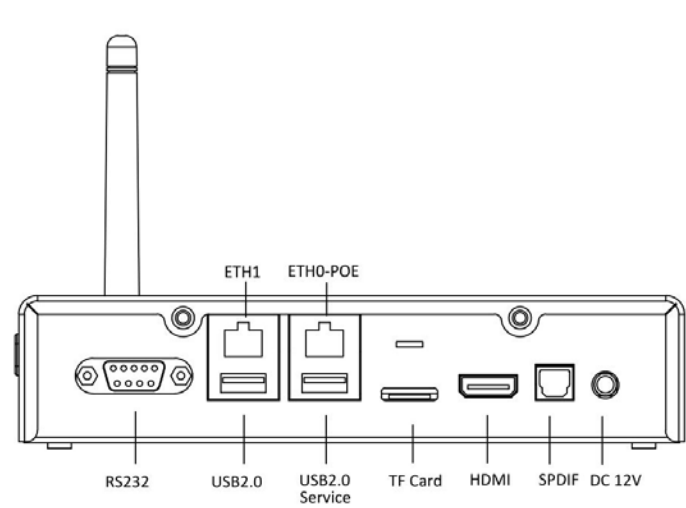
Side View
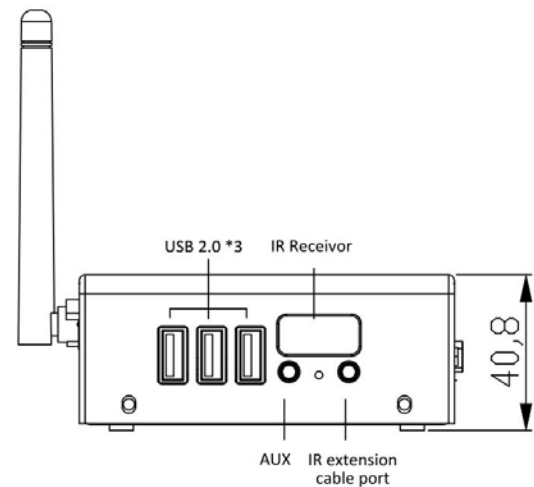
Top View

Bottom View

4. Turning On the Player

The MB4KM player is preconfigured to automatically start any appointed APK once connected to power.

Connect one side of the power adapter to the MB4KM's DC input jack. Plug the power adapter into a standard electrical outlet. Once connected to power, the MB4KM will run automatically the appointed APK with full screen display without the Android menu bar

5. Logging out of the auto-play APK and access the Android OS menu

To log out the auto-play APK and access the Android OS menu

1) Under the full screen display of a certain APK, press "menu" button on the remote control, you will see a password window will be displayed as shown below

2) Type in the password. If this is the first time you are using the player, then the password is: 123456

3) Tap the Exit button to exit the X-FLIER and enter the Android OS main

menu.

– OR –

Tap the "Set new password"button to enter a new password.

4) Once exit from the X-FILER, you can get the Android OS home screen

6. Main Android OS Home Screen

Enter " Applications" under Android OS Home Screen, and you will get the application page as below
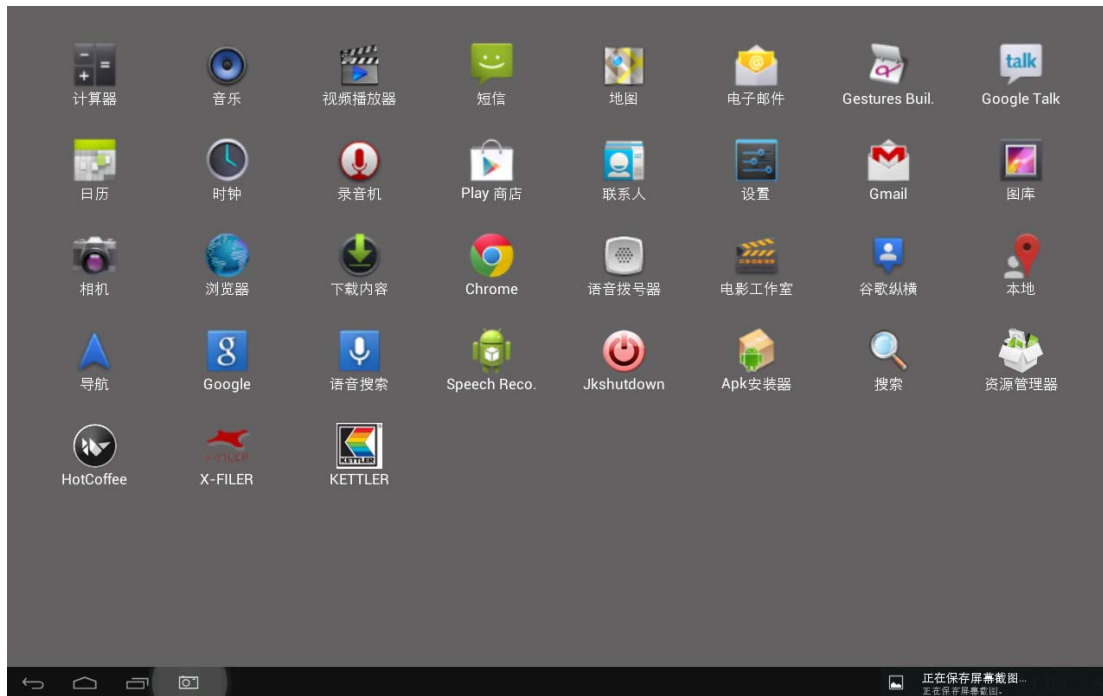
Settings:Tap to configure standard Tablet settings, such as language, keyboard, sound, brightness, network, and so on

Favorites: The favorite applications

Under the application page, press and hold any APK, and a small window will pop up below the screen for "Adding to Favorites" or "Uninstall"
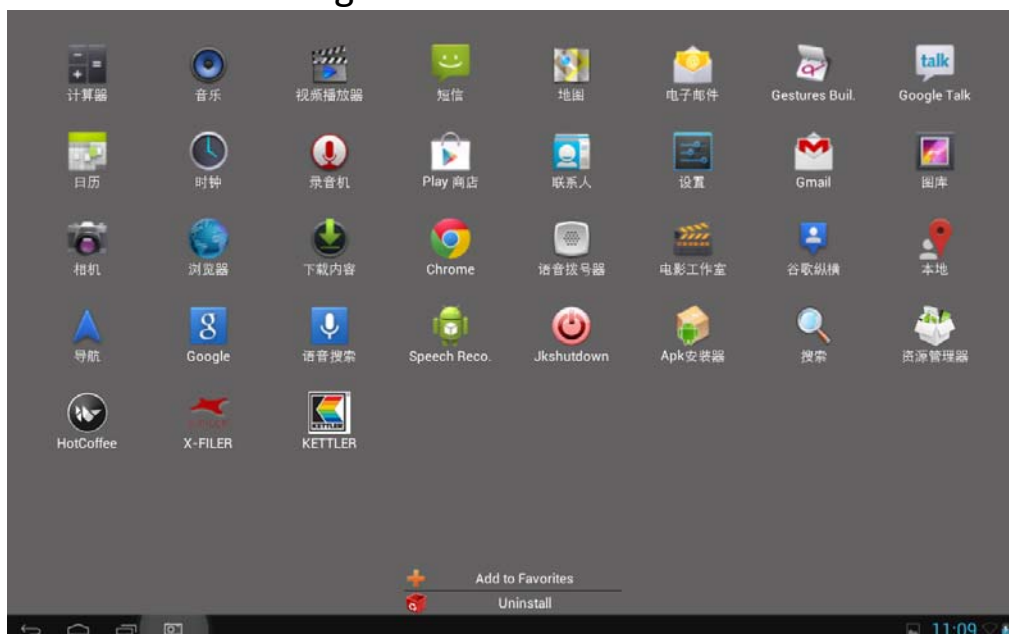
 File Browser: Tap to view all the files in the internal memory, SD card and USB key
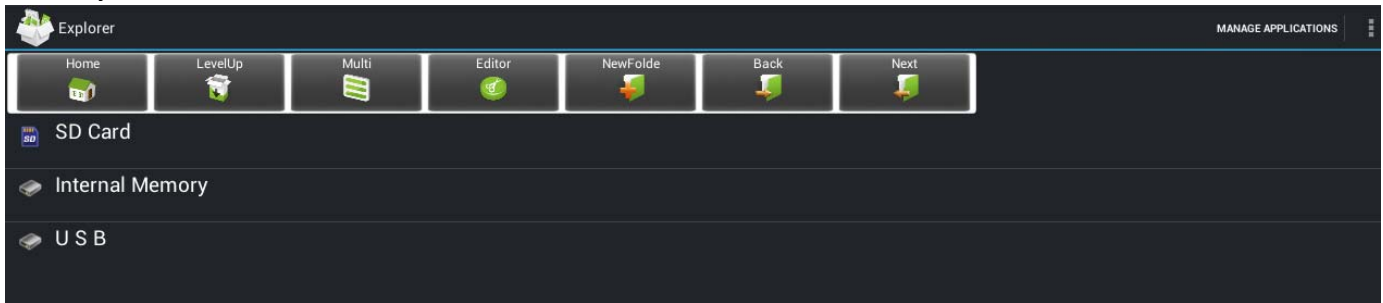
 Web Browser: Tap to open IE explorer window

 Google Play: Google play is an online software store developed by Google for Android OS devices. You can use it to download applications to the POSPAD

 X-FILER: smart software developed exclusively for android devices manufactured by POPSCREENS.

7. Smart software X-FILER

7.1 Setup the default APK

Press "Default App", and you can get the list of all the applications installed on the MB4KM player and select the application you want to set up as the default App. After setup, MB4KM player will run this application automatically once connected to power.

Setting	SDCard	USB	Apps	System	About
Playback mode ▶ Repeat ALL					
Default APP ▶ HotCoffee					
Power off ▶ ⦿ON ⦿OFF					
Power on ▶ ⦿ON ⦿OFF					
Motion Sensor ▶ ⦿ON ⦿OFF					
Scroll Text ▶ ⦿ON ⦿OFF					
Log Function ▶ ⦿ON ⦿OFF					

Back

HotCoffee
电影工作室
X-FILER
Gmail

7.2 Setup the full screen mode

Go to the Settings – Display –Fullscreen mode, and after setup, all the application on the MB4KM player will be displayed in full screen mode without the Android menu bar.
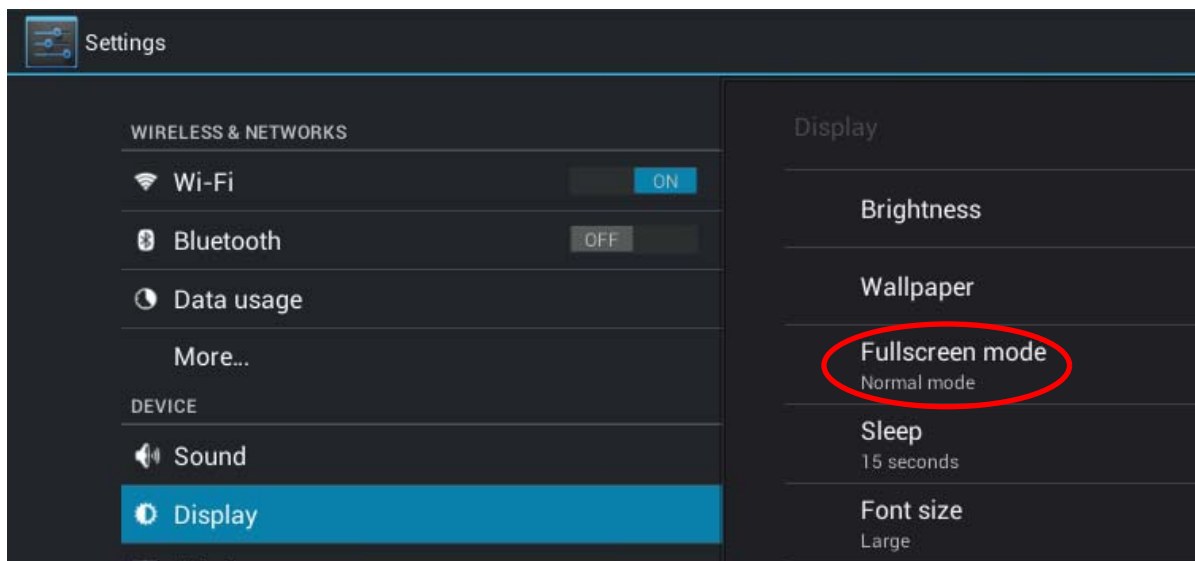
7.3 Auto power on/off function

The MB4KM player can be set up for auto power on and power off at pre-designated time.

Back					
Setting	SDCard	USB	Apps	System	About

Playback mode	▶ Repeat ALL
Default APP	▶ X-FILER
Power off	▶ ◉ ON ◉ OFF
Power on	▶ ◉ ON ◉ OFF
Motion Sensor	▶ ◉ ON ◉ OFF
Scroll Text	▶ ◉ ON ◉ OFF
Log Function	▶ ◉ ON ◉ OFF

Set power Off Time ✖

24H Format

+	+
00	00
−	−

OK

7.4 Motion sensor function

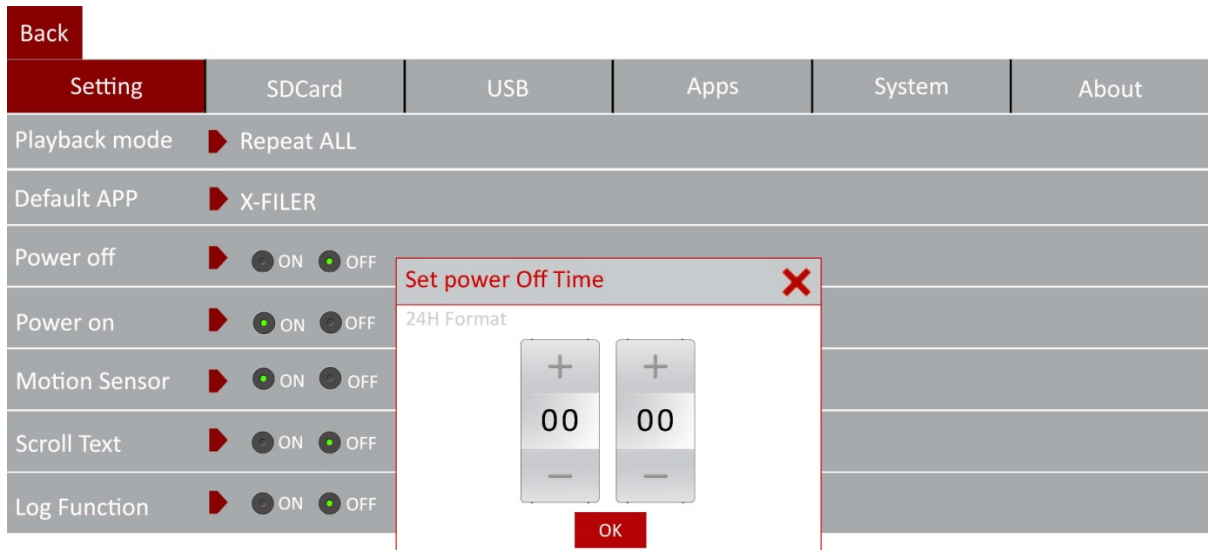Please check first whether you have purchased the external motion sensor module. If yes, please install the motion sensor module with the MB4KM player by USB port

Back					
Setting	SDCard	USB	Apps	System	About

Playback mode	▶ Repeat ALL

Sensor Mode ▶ ◉ Stand-By ◉ Mute

Sensor Interval Time ▶
◉ 5S ◉ 10S ◉ 30S ◉ 60S
◉ 90S ◉ 120S ◉ 180S

Save   Cancel
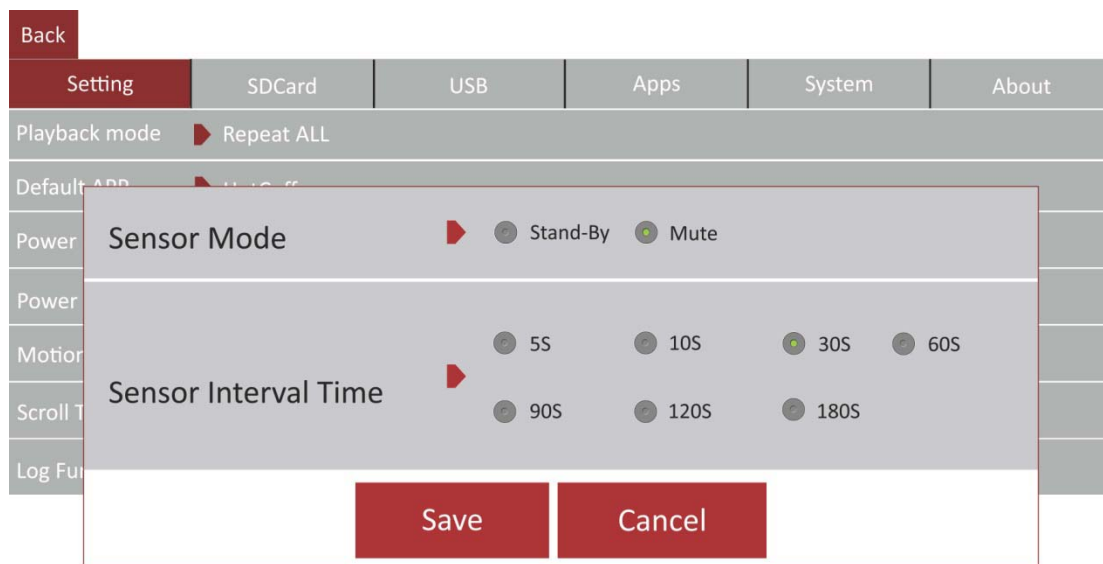
The MB4KM player can be set up with 2 motion sensor mode: stand-by mode and mute mode; Under stand-by mode, When playing, the player would go to standby mode if no human body is detected after a certain interval of time, and the player would power on automatically if any human body is detected.Under mute mode,

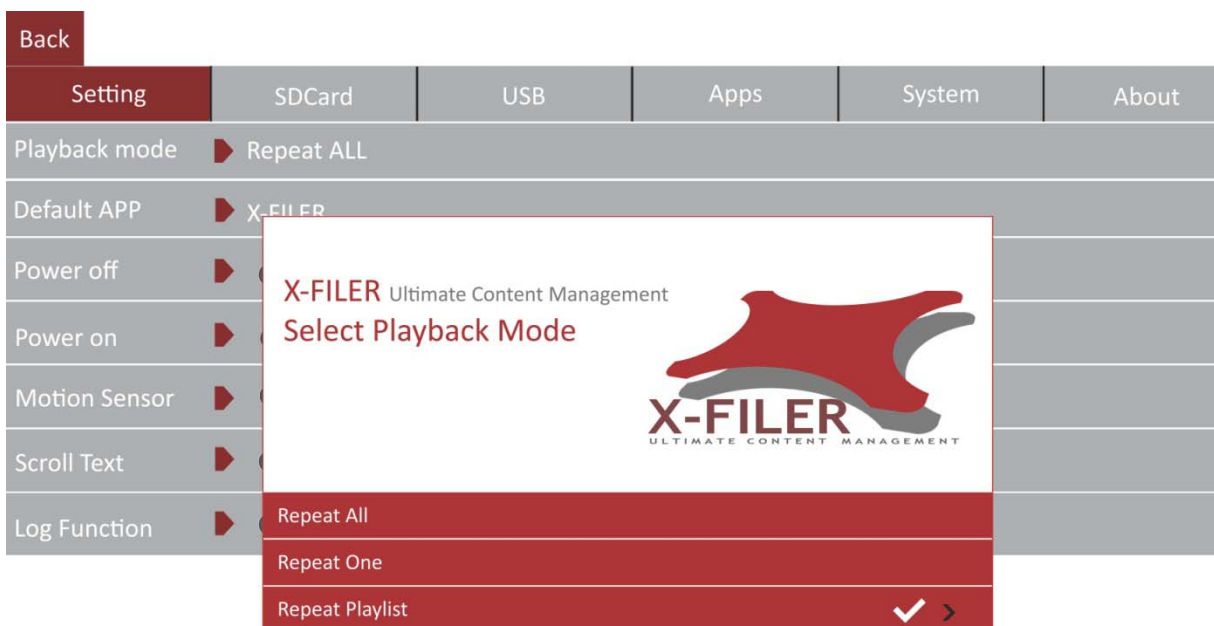when playing,the unit audio output would be shut off if no human body is detected after a certain interval of timewhile the visual output is still on, and the unit would resume audio output if any human body is detected.

The motion sensor can be set up with different interval time as well.

7.5 Loop video playback function

If you set up the default app as "X-filer", you turn the MB4KM player into an advertizing video player. And you can set up the playback mode as repeat one, repeat all and repeat playlist.

Back					
Setting	SDCard	USB	Apps	System	About
Playback mode ▶ Repeat ALL					
Default APP ▶ X-FILER					
Power off ▶					
Power on ▶					
Motion Sensor ▶					
Scroll Text ▶					
Log Function ▶					

X-FILER Ultimate Content Management
Select Playback Mode

X-FILER
ULTIMATE CONTENT MANAGEMENT

Repeat All
Repeat One
Repeat Playlist   ✔ ›

You can edit the playlist easily with the start time and end time of each video file in the playlist.

	File Name	Play Time	Repeat Times	Volumn	Scorll Text	
✖	三星广告1080P.m2ts		1	100		✎
✖						✎
✖						✎
✖						✎
✖						✎
✖						✎
✖						✎
✖						✎

7.6 Scrolling text function

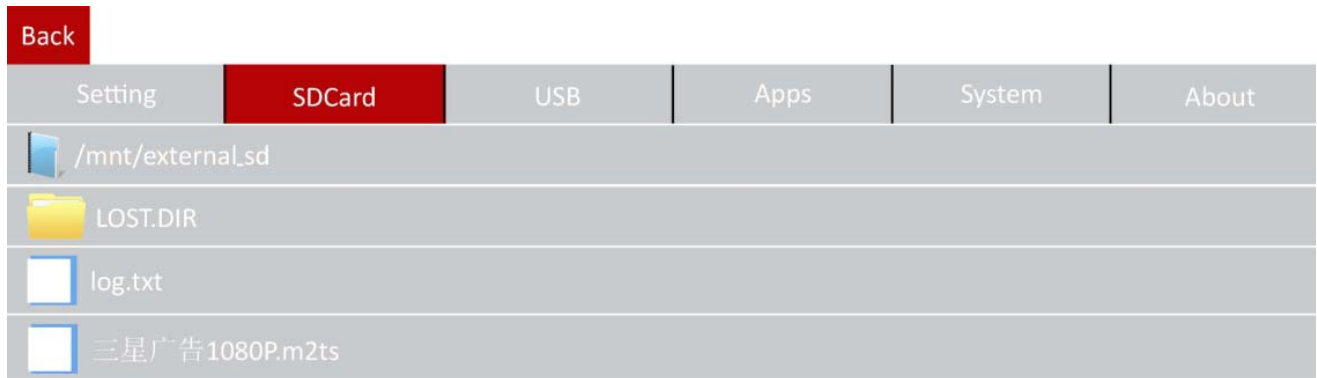You can adjust the location, text size, text color and speed for the scrolling text.

7.7 Log function

There will be a "log.txt" file generated automatically in the SD card to record the performance of the MB4KM player

7.8 Auto content update by USB key

To load media contents from a USB key

(1) Create a .txt file namded"pospad.txt", take an empty USB key and copy into this USB key the "pospad.txt" file together with the .APK files(or media files) you want to load into the MB4KM player.

(2) When the MB4KM player is on, insert the USB key into one of the two USB ports on the back of the POSPAD. After a few seconds, the auto loading of files in the USB key will start. After the contents are loaded, pull out the USB key and you will see the new contents on the SD card.

8. Technical Specifications

Hardware & OS	CPU	RK3288
	Main Frequency	ARM Cortex-A17 Quad core @ 1.8Ghz
	GPU	Embedded Mali-T764 3D GPU, OpenGL ES 1.1/2.0 /3.0,and OpenCL 1.1
	RAM	2GB Dual-Channel DDR3 @ 800Mhz
	Flash	Native SAMSUNG Flash 8GB high-liability (16GB/32GB/64GB optional)
	OS	Android
	I/O ports	2x RJ45(Eth0 with optional PoE function), 5 x USB 2.0 host(one can be switched to slave mode for firmware update, 1 xHDMI output, 1x SPDIF, 1 x TF card, 1 x AUX output, 1 x DC input Jack(12V, 2.5A), 1 X RS232, 1 X SPDIF
Smart Software X-Filer	Easy setup of any app installed on the POSPAD as the default auto start app	
	Full screen display mode without Android OS menu bar	
	Passsword protection for exiting the default app	
	Auto content update by USB key with security file protection	
	Auto power on/off function	
Power	Power input by adapter	DC12V, 2.5A
	Power input by PoE	IEEE802 3at(25.5W) / Network cable requirement: CAT－5e or better
Remote Control	Support IR remote control	Menu, Vol+/-, Brightness +/-, Mouse, return
Media support	Video	MPEG-1, MPEG-2, MPEG-4,H.263, H.264, AVS, VC-1, RV, VP6/VP8, Sorenson Spark, MVC 4K/2K 60FPS
	Image	JPG, BMP, PNG, GIF
	Audio	MP1,MP2,MP3,WMA,WAV,OGG,OGA,APE,FLAC,AAC,M4A,3GPP…etc Audio formats.Muliti -EQ mode,Support Synchronized lyrics and full-page lyric display
Connectivity	RJ45(PoE)	Ethernet 10/100/1000, support 802.1Q tagging
		IEEE802 3at(25.5W) / Network cable requirement: CAT－5e or better
	WIFI	WiFi 2.4GHz/5GHz Dual-Band Support 802.11a/b/g/n
	Bluetooth	Built-in BLE 4.0 Beacon
General information	Case Material	High-quality powder-coated Metal Case
	Case Color	Standard color: Black (Customized color upon request)
	Storage Temp	(-15 -- 65 degree)
	Working Temp	(0 -- 50 degree)
	Storage/Working Humidity	(10 -- 90％)
	Dimension	117.7 x 98 x 40.7mm
	Weight	0.55KGS
	Certificates	CE, ROHS

FCC Statement

1. 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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

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

NOTE:

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.

The distance between user and products should be no less than 20cm

indoor use only