

DisplayPro Signage

[Model : ASM-9579-xxx]

Issue Date : 2016

Title : Muti Media Board

Model : ASM-9679-xxx

Rev. : 0.0

Preliminary Specification

Final Specification

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1. General Description

Playback format

- Picture : JPEG, BMP, PNG
- Video : MPEG1/2, MPEG4(AVC, MPEG-4 Visual, DivX6/5/4/3, XviD, MS-MPEG4 V3, WMV3), MJPEG
- Audio : AC-3, AAC, MP3, PCM

Support multiple cards : USB 2Port (2.0)

Automatically play video, music or picture when power is turn on

Picture timing function, Back ground music and multi effect picture playback

HDMI input (480p ~ 1080p)

2. General Specifications

2-1) Support format

Items	Category	Codec	Max. Resolution	Bit Rate	Remarks
Video	MPEG1	MPEG1	Up to 1920*1080 30fps	20Mbps	
	MPEG2	MPEG2			
	MPEG4	AVC			
		MPEG-4 Visual			
		DivX5			
		DivX4			
		DivX3			
		XviD			
		MS-MPEG4 V3			
		WMV3			
	MJPEG	M-JPEG	640x480 30fps		
Audio	AC-3				
	AAC				
	MP3				
	PCM				
Picture	JPEG		1920x1080		
	BMP		1920x1080		
	PNG		1920x1080		

2-2) HDMI Signal Resolution




No.	Resolution	V-Freq. (Hz)	Proposed
[DTV]			
1	720 * 480	60.00	SDTV 480p
2	720 * 576	50.00	SDTV 576p
3	1280 * 720	50.00	HDTV 750p 50Hz
4	1280 * 720	60.00	HDTV 720p 60Hz
5	1920 * 1080	50.00	HDTV 1080i 50Hz
6	1920 * 1080	60.00	HDTV 1080i 60Hz
7	1920 * 1080	24.00	HDTV 1080p 24Hz
8	1920 * 1080	50.00	HDTV 1080p 50Hz
9	1920 * 1080	60.00	HDTV 1080p 60Hz
[PC]			
1	640 * 480	60.00	
2	800 * 600	60.00	
3	1024 * 768	60.00	
4	1280 * 1024	60.00	
5	1280 * 768	60.00	
6	1360 * 768	60.00	
7	1600 * 1200	60.00	
8	1920 * 1080	60.00	

2-3) General specifications

Item		Descriptions	Remarks
Input	Power	12Vdc (Standby Power Consumption <0.5Watt)	
	USB	USB 2.0 (Internal USB, External USB)	
	HDMI	480p ~ 1080p	
Output	Audio	2x8W(8Ω) THD+N<10%@1Khz	Speaker
		200mW(32Ω)/400mW(16Ω)	Head Phone
	LVDS	Max Resolution 1920x1200	
User Control		Remote Control(15 Button)	
		Key Function (7Key)	<i>Option</i>
Special Feature		Picture mode selection	
		Backlight Control	
		Apect Ratio Converter	
		Timer & Support Scheduler	Play list
		Auto Play System	Non Play list
		USB Copy System	

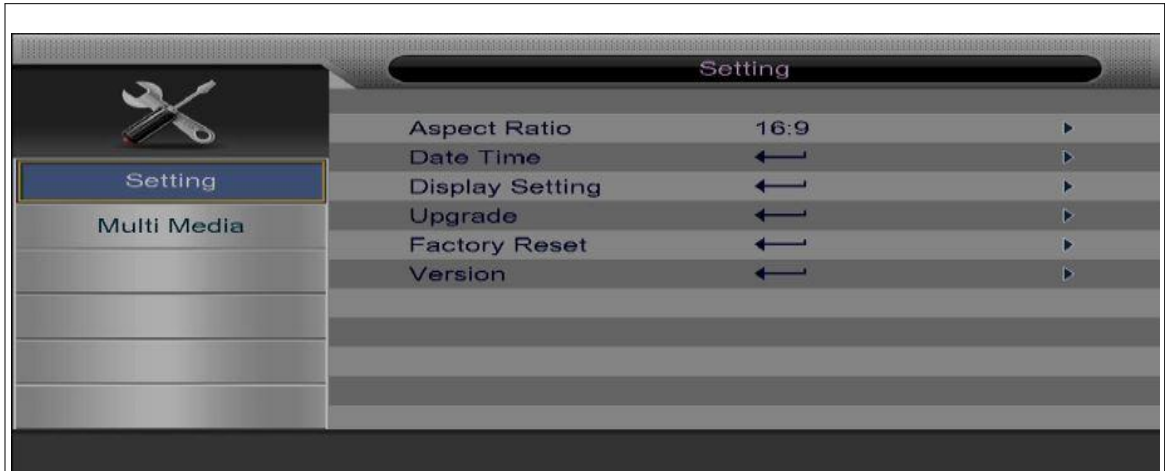
3. OSD Menu

3-1) Main Menu

	<div style="display: flex; justify-content: space-around; text-align: center;"> <div> <p>Movie</p>  </div> <div> <p>Music</p>  </div> <div> <p>Photo</p>  </div> </div>
MOVIE	Display the video file in the memory or click the icon
MUSIC	Display the music file in the memory or click the icon
PHOTO	Display the picture(photo) in the memory or click the icon
CONFIG	Icon for set up the function of MMP Board

3-2) Setup Menu (Setting)

*To enter setup menu press menu button twice



Aspect Ratio	Set up the aspect ratio of the contents > Sub menu Full Screen 16 : 9
Date Time	Set up the current date and time > Sub menu Date 2014/01/01 Time 12:01:54
Upgrade	Upgrade MMP firmware > Sub menu USB/Card Upgrade
Display Setting	Set up the screen function > Sub menu Brightness/Contrast Color Setting
Factory Reset	Initialize the set up value
Version	Display current applied firmware

3-3) Setup Menu (Multi Media)

*To enter setup menu press menu button twice



Movie Repeat	Set up Movie playback > Sub Menu Repeat Dir. Repeat OFF
Music Repeat	Set up Music playback > Sub Menu Repeat Dir. Repeat OFF
Photo Repeat	Set up Photo playback > Sub Menu Repeat Dir. Repeat OFF
BG music	Set up the back ground music playback(Photo Only) > Sub Menu On, Off
Slide Time	Set up the time of contents display(Photo Only) > Sub Menu 3, 6, 9, 12, 15 Seconds
Effect	Set up the play effects when switching the contents(Photo Only) > Sub menu None, Random, WipeTop, WipeLeft ...

4. Remote Control



Power	Turns On/Off the system
Mute	Mute ON/OFF
Menu	Activates the OSD menu, Exit
Auto	No function
▲, ▼, ◀, ▶	Move the cursor or adjust menu
OK	Select the menu
PLAY	Plays the selected file
STOP	Stop to play the file.
EXIT	Previous Menu, Exit
SELECT	Source Select : USB, HDMI
▲ VOL ▼	Adjust the volume

5. File size and orientation

File size and orientation need to be setup correctly for the display to operate with the correctly.

Content providers need to take note of the supported file formats, resolutions and orientation. Best resolution for all content is 1080 x1920 with 16:9 aspect ratio. This means that content must remain in landscape but be rotated 90deg to the right as per **Fig1**.

- This applies to both video and pictures formats.

Rotation of content 90deg to the right is best done by the content providers. Venue owners can also rotate and save the files as per **Fig1** using Window Picture and Fax Viewer, or similar program.

- Content in **Fig2** will not display correctly when uploaded to the LCD. Content will be horizontal and in letterbox mode.



Fig1 – Screen in landscape with content rotated 90deg to the right.



Fig2 – Screen in landscape with no content rotation.

- Display will not be in the correct orientation.