Suzo-Happ LCD Bank End file format and procedure.

The LCD Bank End Signage is a smart standalone FHD LCD that can play pictures and video of selected supported file formats. The user can schedule different promotional material to play at different times of the day and week. Picture and Video Media time periods and frequency can be set by the user with a simple scheduling program. The user saves files to a USB flash drive then connects to the LCD. Files automatically upload to the onboard memory, deleting old files, and content will play automatically at the correct scheduled time.

General Specifications.

Supported file formats.

Items	File format	Codec	Resolution	Bit rtate
Video	MPEG1	MPEG1	Up to 1080x1920 30fps	20Mbps
	MPEG2	MPEG2		
	MPG4	AVC		
		MPEG-4 (Visual)		
		DivX5		
		DivX4		
		DivX3		
		XviD		
		MS-MPEG4 V3		
		WMV3		
	MJPEG	M-JPEG		
Picture	JPEG		15360x8640	
	BMP			
	PNG			
USB	USB 2.0			
Memory card	2GB Micro SD Card			

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File size and orientation.

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

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.

Time and Date configuration.

Time and date needs to be set on the LCD to insure correct scheduling of content. The LCD will be set to the correct time and date upon delivery but will be have to be changed for daylight savings. All changes are done using the remote control.

1. Press the menu button.
2. Use right arrow key to "config", press OK.
3. Enter config and enter "setting" Press OK.
4. Use the down arrow key to "clock"
5. Use right arrow to enter clock modifying, press OK.
6. Use up and down keys to move to date, hour and minute.
7. Use right and left arrow keys to modify date and time.
8. Press menu button to save and exit.

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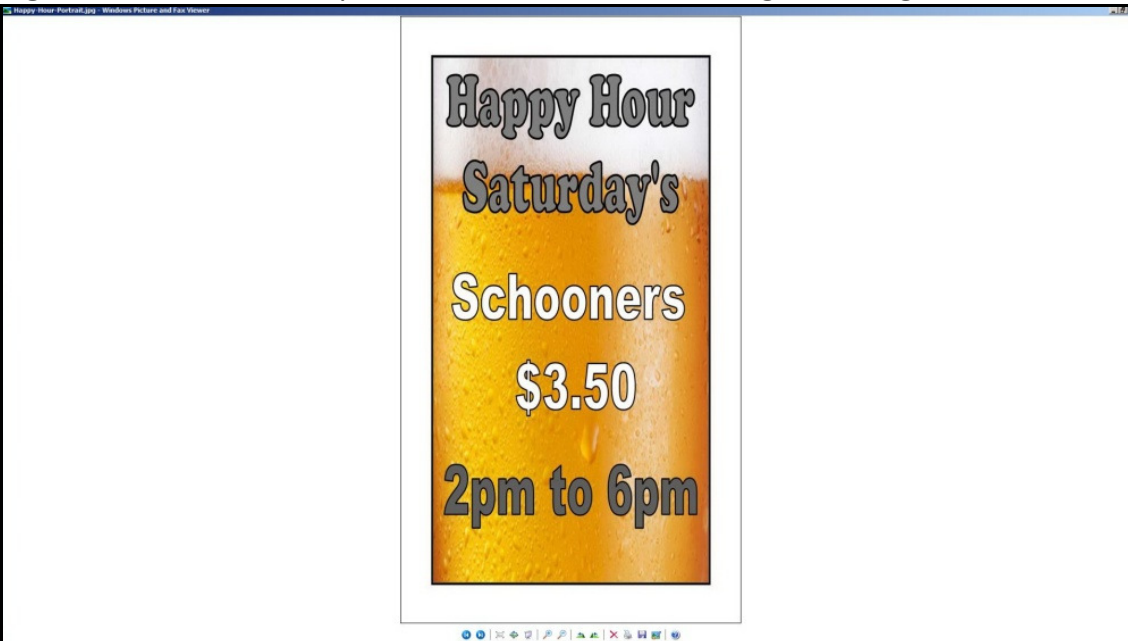

Fig2 – Screen in landscape with no content rotation.
  - ➢ Display will not be in the correct orientation.

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Schedule Manager.

The LCD Bank End is media controlled by a simple schedule manager program. Media will only play at the correct time of the day and week using a scheduled playlist. To manage the schedule playlist launch the Schedule.exe program. See **Fig3**
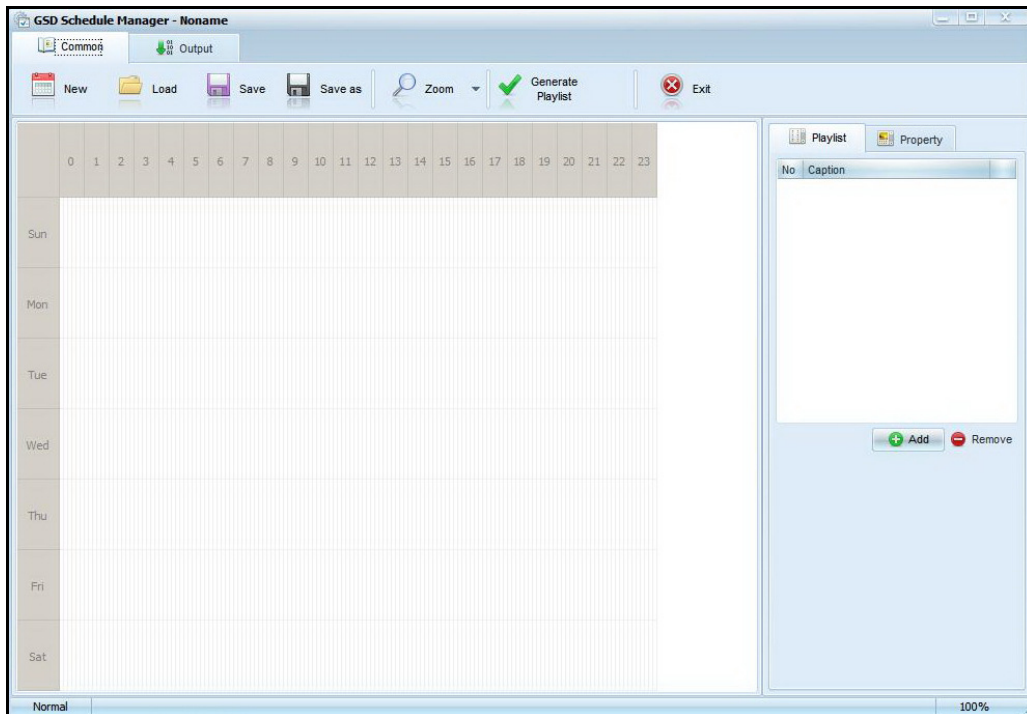

Fig3 – Schedule program

Click on the ADD icon. The schedule program will move to the next window allowing the user to add files.

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1. Create name, e.g.: "Happy Hour"
2. For effect, use drop down for desired effect. This is for the content transition.
3. Set the delay time for content display duration.
4. Click the ADD icon to add content files. Multiple files can be added.
5. Click on the days of the week that the desired content is to be played.
6. Use the left mouse click in the time and day section to add the desired times. Right mouse will undo.
7. If schedule is the same for the week, click on the other desired days on the top right hand side.
8. Click on apply to finish schedule.
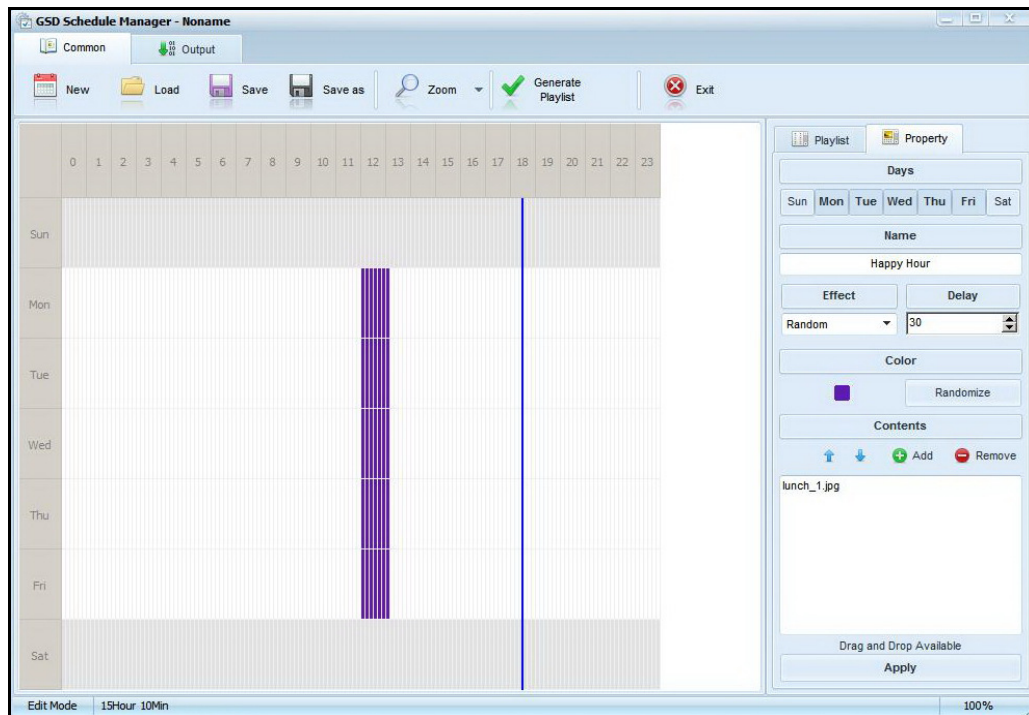9. Follow the above steps to add another group of files and time of day.
10. See **Fig4**

Fig4 – Adding files and desired time.

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Once the media, days and weeks are completed click on the "Generate Playlist" icon on the top menu bar. Click on the small folder icon next to the start menu button and locate the removable disk USB drive. Click on the start icon to save files and playlist to the USB flash drive.
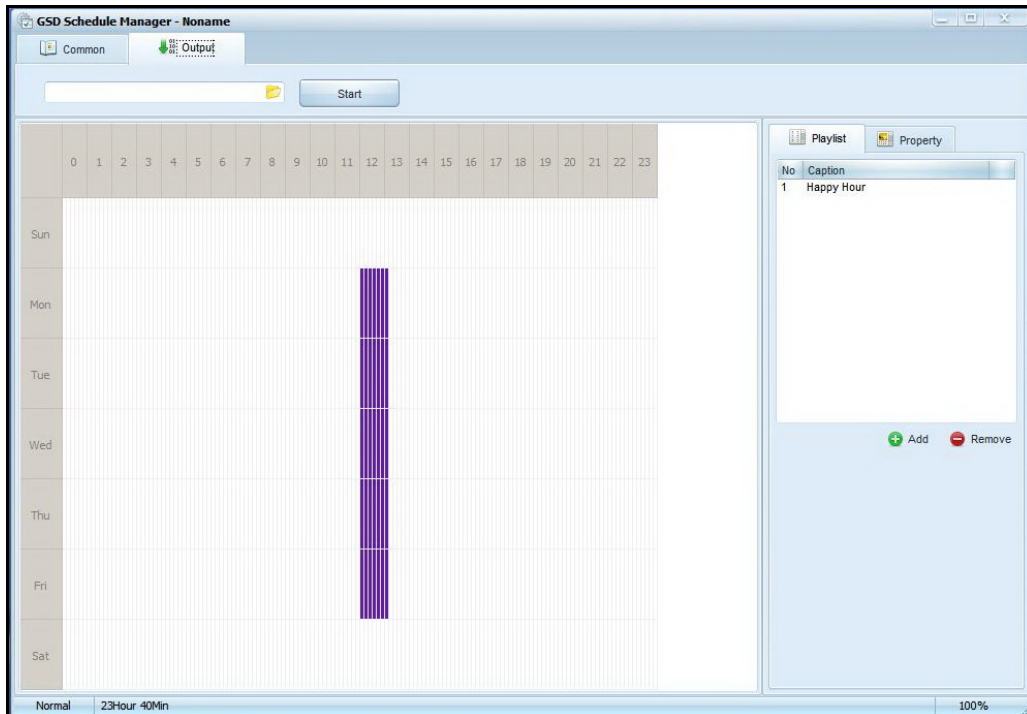Content and playlist are now saved together and are ready to load to the LCD Bank End Signage.

Fig5 – Save files to USB flash drive.

For expert uses, the playlist file on the USB drive can be modified, or content added, by changing the parameters in the text. Once parameters have been modified save text file then reload files to the LCD.