DSA-2100A Series

Network Digital Signage Player

User Manual

Rev. 2.1

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Material data used for content creation, such as video, graphics, and text, may be copyrighted. Unauthorized distribution and/or playout of such content may be contrary to the provisions of the copyright laws. Also the system allows you to use the fonts installed on the PC to create text material. Such fonts are copyrighted. Authorization or right of transmission is required to use them for playout.

Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Keep this User Manual for later reference.
- 3. Keep this equipment away from humidity.
- 4. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
- 5. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 6. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 7. All cautions and warnings on the equipment should be noted.
- 8. Never pour any liquid into an opening; this may cause fire or electrical shock.
- 9. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 10. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well, or you cannot get it to work according to the user manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of breakage.
- 11. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW -20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT.

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Table of Content

Chapter	1. Introduction	3
1.1.	Introduction of DSA-2100A	3
1.2.	Features of DSA-2100A	3
1.3.	DSA-2100A Interfaces	4
1.4.	Specification of DSA-2100A	4
1.5.	Packing List of DSA-2100A	4
Chapter	2. Preparations and Setting Up	6
2.1.	Connect the Power	6
2.2.	Connect to a Display	6
2.3.	Installation of DSA Composer and DSA Configurator	6
Chapter	3. DSA Composer Utility	8
3.1.	Feature-set of DSA Composer	8
3.2.	Media Database	9
3.3.	Initiate a New Program	9
3.4.	Open an Existing Program	0
3.5.	Play Schedule Arrangement	0
3.6.	Media Contents Management	2
	3.6.1. Video Files 1	2
	3.6.2. Graphic Files	3
	3.6.3. Text Files	4
3.7.	Save Program	5
3.8.	Export Program	6
	3.8.1. Export through USB 1	6
	3.8.2. Export to Player Directly 1	7
	3.8.2.1 Export via Direct Cable Connection 1	7
	3.8.2.2 Export via LAN	7
	3.8.2.3 Export via Corporate LAN 1	8
	3.8.3. Export to Player through Web Server 1	8
Chapter	4. DSA Configurator Utility2	20
4.1.	DSA Configurator Utility Main Menu2	20
4.2.	Create New Configuration2	20
4.3.	Open Existing Configuration2	20
4.4.	Edit Configuration	21
	4.4.1. Set Network Items 2	21
	4.4.2. Set Server Items	21
	4.4.3. Set Output Items	22
	4.4.4. Set System Items2	22
	4.4.5. Advanced Items	23
4.5.	Save Edited Configuration2	23
4.6.	Export Configuration to Player2	23

Chapter 1. Introduction

1.1. Introduction of DSA-2100A

Advantech DSA-2100A is an application-ready digital signage player with advanced playback capabilities. DSA-2100A receives media contents such as video, graphics, and text, stores the content on its internal hard-disk drive, and displays the contents according to either a pre-defined play-list or commands through network input. DSA-2100A features the most advanced decoding and graphic processing function. It outputs either digital or analog video signals for modern, high definition display devices such as plasma, LCD, and projectors. It is the ideal networked digital content player for advertising, presentations, training, and other media applications.



1.2. Features of DSA-2100A

1. Rich Content Presentation & Maximum Advertising Efficiency

Advantech Digital Signage solutions support MPEG 1/2/4, DivX 5, MP3, etc. for video and audio, JPEG and BMP format for graphics, and scrolling text with multiple languages. We offer user-definable layout templates with up to 7 display zones to deliver maximized advertising efficiency for our customers. Insertion of emergency events with user-defined priorities is supported along with versatile messaging.

2. Advanced Playback & Flexible Scheduling Capability

Advantech Digital Signage solutions deliver premier display quality; both HDTV (16:9) and VESA (4:3) display format are supported. Apart from pre-scheduled events, instant scheduling is also supported for emergency event insertion.

3. Optimized Internal Storage Utilization and Content Management

Advantech Digital Signage solutions are equipped with a 40 GB hard disk drive that can store up to 18 hours of compressed video at a bit rate of 4 MB per second. The media content can be encrypted before transmission to ensure security and prevent viruses, worms, and spyware. Playback, operation, and transmission logs and reports are available for advertisement billing and error tracking.

1.3. DSA-2100A Interfaces

The back of the DSA-2100A unit with the following I/O ports as shown below in **Diagram 1-1**:



Diagram 1-1

1.4. Specification of DSA-2100A

Content Format Support		
Video	MPEG-1, MPEG-2 ASP	MP @ ML up to 14 Mbps MPEG-4
Audio	2 channels, MPEG	-1 and MPEG-2 Layers I, II and III
	(MP3), 16-bit PCM, up to 48 kHz	, bit rate up to 384 kbps, sample rate
Graphic	32-bit color with tra	nsparency BMP, JPEG
Text	ASCII text (.txt)	· · ·
Input and Output Interfac	e	
Video Outputs	DVI-I	VESA DVI-I connector x 1, up to
		1024 x 768 @ 60 Hz with the H/W
		scaler
	Composite	BNCx1
	S-Video	Mini-DIN 4-pin connector x1
Audio Output	R / L channel	Unbalanced stereo RCA jack x 2
	analog	
LAN Port	10/100 Mbps	RJ 45 x 1
Serial Port	RS-232C	D-sub 9-pin (male) x1
USB	USB 2.0	USB Type A connector x 2
Network Protocol	Supports HTTP, DI	HCP
System		
Internal Storage	40 GB 2.5" HDD	
Dimensions (W x H x D)	228 x 44 x 110 mm	(9" x 1.7" x 4.3")
Weight	Approx. 1.2 kg	
Power Consumption	Approx. 8 W	
Power	12 V DC input	
Operation Temperature	0 to 40° C, Humidit	y 5 ~ 85% @ 40° C

1.5. Packing List of DSA-2100A

The DSA-2100A package contains the following items:

	Items	Qty
1.	DSA-2100A digital signage player	1
2.	Switching power adaptor (Input AC 110-240V; Output DC 12V)	1
	and AC power cord	
3	Power cable retainer and screw	1
4	DSA installation CD-ROM, containing:	1
	 Content management utility: Advantech DSA Composer 	
	- Configuration utility: Advantech DSA Configurator	
	- User manual	

Note:

You can download the latest version of DSA Composer / DSA Configurator and user manual from the following URL:

http://www.advantech.com.tw/support/

Chapter 2. Preparations and Setting Up

2.1. Connect the Power

- 1. Connect the power adapter cord with the AC power cord.
- Connect the power adapter cable to the player's DC 12V power port.
 After connecting the power cable with the player, it is suggested to attach the power cable retainer for preventing the power cable from being disconnected accidentally. See Diagram 2-1.



Diagram 2-1

4. Plug the AC power cord into a power outlet and the Power LED will light up.

Warning:

Only use the power adapter packaged with the DSA-2100A. Using a different power adapter could damage the device.

2.2. Connect to a Display

Connect your display to the Digital Signage Player's DVI port with the DVI cable that came with your display. Consult your display's user manual for cabling specifications.

Note:

- 2. The DSA-2100A is equipped with DVI-I port which can output the display with VGA (D-sub 15-pin) connector through a DVI-I-to-VGA adaptor.
- 3. If the Composite or S-Video video output is to use, you need to change the player's configuration setting with the DSA Configurator. See Section 4.4.3.

2.3. Installation of DSA Composer and DSA Configurator

You can use the DSA Composer on any Microsoft Windows based server or PC as a management station to provide simple content-display management of the DSA player (Advantech Digital Signage player).

- 1. Load the DSA Composer CD enclosed in the DSA player package.
- 2. Double click the "composer_setup.exe" icon and the setup utility will start with the welcome screen.
- 3. Click the "Next" button to continue.



- 4. The setup utility will choose a default folder to install the utility files.
- 5. The DSA Composer is now installed. Select "Yes" to launch player after the installation.
- 6. Click "Finish" button to exit the setup.



7. Once the installation finishes, you will see the icons of "DSA Composer" and "DSA Configurator" on your desktop as shown below:



8. Now you can begin configuring the Composer program by continuing the steps in **Chapter 3.**

Chapter 3. DSA Composer Utility

3.1. Feature-set of DSA Composer

DSA Composer is the content management utility to edit up-to 3 zones of the windowed content presentation within a 24-hour time span. Once you launch the DSA Composer utility, the main menu of the DSA Composer will be shown as the picture below.

Video Gr Index 00001 00002	Filename Type Source 0100001.m2p MPEG2 C:\Doc 0100002.m2p MPEG2 C:\Doc	e		Size	
Index 00001 00002	Filename Type Source 0100001.m2p MPEG2 C:\Do 0100002.m2p MPEG2 C:\Do	e		Size	
00001	0100001.m2p MPEG2 C:\Do 0100002.m2p MPEG2 C:\Do	an an ante and Catting and		5120	Last Modified
		cuments and Settings cuments and Settings	vitd.mis\Desktop\Sources vitd.mis\Deskton\Sources	vi 16863236 vi 14366724	07/12/2005 15:12
		contents and octangs	and mile to cartop to durces	14000124	0171272000 10:10
Taily Schedu	ule 2 3 4 5 6 7 8	9 10 11 12	13 14 15 16 17	18 19 20 21 22	23 24
		<u> </u>			
lay Lists					
Video					
11000		Graphics		Text	
0100001	1.m2p	Graphics 0200017.jpg		Text 0300013.jpg	
0100001	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg		Text 0300013.jpg 0300014.jpg	
0100001	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg	_	Text 0300013.jpg 0300014.jpg	
0100001	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg		Text 0300013.jpg 0300014.jpg	
0100002	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg		Text 0300013.jpg 0300014.jpg	
0100002	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg		Text 0300013.jpg 0300014.jpg	
0100002	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg 1200016.jpg	<	Text 0300013.jpg 0300014.jpg	
0100001 0100002	1.m2p 2.m2p	Graphics 0200017.jpg 0200016.jpg 0200016.jpg 0200016.jpg 0200016.jpg 0200016.jpg 0200016.jpg 020017.jpg 020017.jpg 020	K 👪	Text 0300013 (pg 0300014 (pg	
Program Prop	1.m2p 2.m2p	Graphics 0200017, jpg 0200016, jpg 1	K 💵	Text 0300013.jpg 0300014.jpg	
0100001 0100002	t. m2p 2 m2p perty Media Size: 32214656	Graphics	C:\Program Files\DSA	Text 0300013.jpg 0300014.jpg 21004 Composer/media	_db
0100001 0100002	1. m2p 2. m2p perty Media Size: 32214656 Layout Resolution: 1024x768	Graphics 0200017.jpg 0200016.jpg Database Dir: Program Dir:	C.\Program Files\DSA C.\Program Files\DSA	Text 0300013.jpg 0300014.jpg 2100A Composer/media 2100A Composer/progra	_db

The main feature of the DSA Composer includes:

lcon	Function
New	Initiate a program
Open	Open an existing program
Config	Edit the configuration
Save	Save the edited program (including media files and play-list) in the local drive
To Folder	Export the edited program to a directory set by the user on a local or remote hard-drive (The player can download the program there per the customized setting.)
To USB	Export an edited program to a USB storage dongle (The program will be loaded to the player automatically when plugging-in the dongle to the player). Please refer to section 3.8.1
To Player	Export an edited program to the player directly through an Ethernet connection (Please note that the user must configure the DSA Composer program to set up this connection before utilizing this feature). Please refer to section 3.8.2
Exit	Exit Composer
Connection Status	Show the real-time connection status of the player

3.2. Media Database

The media files imported into the database will be listed here. Select among "Video", "Graphics", or "Text" tab to view the associated files in different media formats.

Composer - C:\Program Files\D5A2100A Composer\programs\test2	
New Open Config Save Folder	To USB To Exit
Media Database	
Video Graphics Text	1
Index Filename Type Source [00001 0100001.m2p MPEG2 C:\Documents and Settings\id.mis\Desktc 00002 0100002.m2p MPEG2 C:\Documents and Settings\id.mis\Desktc	Size Last Modified jp\Sources\vi 16863236 07/12/2005 15.12 jp\Sources\vi 14366724 07/12/2005 15.18
Daily schedule 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Play Lists	16 17 18 19 20 21 22 23 24

Acceptable formats are:

Content type	Media format
Video	MPEG 1/2/4, DivX (up to DivX 5 version), and VOB
Graphics	.JPG and .BMP
Text	ASCII text (.txt)

The method and process of managing the media contents will be described in details later in **Section 3.5**.

3.3. Initiate a New Program

- 1. Click "**New**" button, then a dialog with Project Name and Location editing field will pop up from the screen.
- 2. Input the new program name.



- 3. Select resolution: DSA Composer offers "640x480", "800x600", "1024x768", and "1280x720" layout resolution for you to choose from.
- 4. Select layout template: DSA Composer offers several pre-defined layout for you to choose from. For multi-zone presentation, DSA Composer supports up to 3-zone of windowed content presentation.

Note:

DSA Composer can support full screens of only video or graphics in alternatives to the 3-zoned display mode:

- (1) Choose the "Type 6" of DSA Composer template; or
- (2) Choose the "Type1~4" of DSA Composer template and edit the parameter of coordinates in graphic play-list or video play-list.

3.4. Open an Existing Program

Composer c:\Program Siles\DSA2100A Composer\program	ams\test2
1 Itew Open Config Save	To USB Player Exit
Media Dat D.	X
Video Program Files	
Index	Size Last Modified
00001	mis\Desktop\Sources\vi 16863236 07/12/2005 15:12 mis\Desktop\Sources\vi 14366724 07/12/2005 15:18
test	
Daily Sche	
0 1 - Newtest - jack	14 15 16 17 18 19 20 21 22 23 24
Play Lists 2	Text
	0300013.jpg 0300014.jpg

1. Click the "Open" button. A dialog box will pop up from the screen.

2. Select a pre-edited program then click "OK." (Please note that the "OK" button will be enabled only when the selected directory is valid.)

3.5. Play Schedule Arrangement

 DSA Composer allows you to set up the project playback schedule based on a 24-hour span. Right click the mouse on the schedule bar and select "Add" to edit the "Daily Schedule."

Index	Filename	Туре	Width	Height	Source	Size	Last Modified
00001	0300001.jpg	ipg	6443	60	C:\Media Sources\xmas tree.txt	113862	10/02/2006 18:05
00002	0300002.ipg	ipa	464	60	C:\Documents and Settings\itd.mis\D	10721	19/04/2006 09:5
00003	0300003.ipa	ipa	6443	60	C:\Documents and Settings\itd.mis\D	112150	04/05/2006 10:24
00004	0300004 ing	ing	324	60	C:\Documents and Settings\itd mis\D	7683	27/06/2006 10:45
00005	0300005.jpg	ipa	239	60	C:\Documents and Settings\itd.mis\D	5446	11/08/2006 11:19
i]				~		(100	
y Sched	ule						
1	2345	67		J 10	11 12 13 14 15 16 17 18	19 20 21	22 23 24

2. Enter the "Start Time" and "End Time" of the "Time Slot".

Media Datab Video Gr	ase aphics Text						
Index	Filename	Туре	Width	Height	Source	Size	Last Modified
00001 00002 00003 00004 00005	0300001.jpg 0300002.jpg 0300003.jpg 0300004.jpg 0300005.jpg	ipg ipg ipg ipg ipg	6443 464 6443 324 235 Ti	60 60 60 60 me slot	C:\Media Sources\xmas tree.txt C:\Documents and Settings\vid.mixD C:\Documents and Settings\vid.mixD C:\Documents and Settings\vid.mixD	113862 10721 112150 7683	10/02/2006 18:0€ 19/04/2006 09:55 04/05/2006 10:24 27/06/2006 10:4€ ≤ 06 11:15 ↓
Daily Schedule 03:00:00 V 0 1 2 3 4 5 6 7 8 End Time: 03:00:00 V End Time: 11:00:00 V							
Video 0100001 0100002	.m2p .m2p		_	020001 020000 020001	с,ру 0 И,рд 0 1.рд 0	300004.jpg 300002.jpg	Cancel
					1 × I		

3. Once you set up the duration of the schedule, you can drag-and-drop the media files that you would like to display during this period of time into the "**Play Lists**" field with the process in **Sec. 3.6**.

Note:

If you have designated a timeslot for the new display program you have created, please make sure the DSA player has the correct system time through DSA Configurator; see **Sec. 4.4.4** for more details.

vledia Database Video Graphics Text	1		
Index Filename	Type Width Height Source	Size	Last Modified
00010 0300010.jpg	jpg 215 60 C:\Documents and	Settings\itd.mis\M 4136	14/09/2006 14:28
00011 0300011.jpg	jpg 94 60 C:\Documents and	Settings\itd.mis\M 2538	14/09/2006 14:32
00012 0300012.jpg	jpg 85 60 C:\Documents and	Settings\itd.mis\M 2424	14/09/2006 14:34
00013 0300013.jpg	jpg 296 60 C:\Documents and	Settings\itd.mis\M 7178	14/09/2006 16:59
•			
Play Lists			22 23 24
Video	Graphics	Text	
0100002.m2p 0100001.m2p	0200011.jpg	0300003.jpg 0300013.jpg 0300010.jpg 0300013.jpg	
	1 × I	•	

4. Repeat the steps above to add another timeslot in the "Daily Schedule."

Note:	
It is possible Lists" directl become the c	to drag-and-drop the media files from "Media Database" to the "Play y without specifying the "Schedule" arrangement. This play-list will default play-list for 24-hour playback.
L. L	Media Database
	Video Graphics Text
	Index Filename Type Width Height Source Size Last Modified 00012 0200012.jpg jpg 224 708 C:\Media Sources\Graphic_224x708\ 49088 09/12/2005 15:11 00013 0200013.jpg jpg 224 708 C:\Media Sources\Graphic_224x708\ 32370 09/12/2005 15:31
	00014 0200014.jpg jpg 224 708 C:\Documents and Settings\ild.mis\D 29919 09/12/2005 15:16 00015 0200015.jpg jpg 224 708 C:\Documents and Settings\ild.mis\D 43828 09/12/2005 15:16 00016 0200016.jpg jpg 224 708 C:\Documents and Settings\ild.mis\D 36247 09/12/2005 15:17 4 36247 09/12/2005 15:17
	Daily Schedule 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
	Play Lists
	010002/m2p 020002/pg 030003/pg 010001.m2p 0200003/pg 030004/pg 0200003/pg

3.6. Media Contents Management

Follow the steps below to add the video, graphic, and text media contents into your play-list respectively. Only the media files in the repository with valid format can be accepted.

3.6.1. Video Files

1. Add new video file: You can either drag and drop the video files into the video database, or right click on the mouse to bring out the "Add/Delete" pop-up windows as shown below. Select "Add" to insert the video file(s) that you want to include in the media database.

Composer - C:\Program Files\DSA2100A Composer\programs\test2	
New Open Config Save To Folder	To Player Exit
_ Media Database	
Video Graphics Text	1
Index Filename Type Source	Size Last Modified
00001 0100001.m2p MPEG2 C:\Documents and Settings\td.mis\Desktop\Sources\vi 00002 0100002.m2p MPEG2 C:\Documents and Settings\td.mis\Desktop\Sources\vi Add Add Add Add	16863236 07/12/2005 15:12 14366724 07/12/2005 15:18
NDelete	
Deally Schedule 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 1	19 20 21 22 23 24

2. Drag-and-drop the selected video file(s) from the media database to the video "Play Lists" field on the left.

Composer - C:\Program Files\DSA2100	DA Composer\programs\test2	
New Open Config	Save Folder Save	Player Exit
Media Database		
Video Graphics Text		
100001 0100001.m2p MPEG2 C:VI 00002 0100002.m2p MPEG2 C:VI	arce Documents and Settings∖itd.mis∖Desktop\Source Documents and Settings∖itd.mis\Desktop\Source	I Last Modified Is\vi 16863236 07/12/2005 15:12 Is\vi 14366724 07/12/2005 15:18
Daily Sche <mark>u</mark> le 0 1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16 17	18 19 20 21 22 23 24
Video	Graphics	Text
0100001.m2p 0100002.m2p	0200017 jpg 0200016 jpg 0200004 jpg 0200004 jpg 02000011 jpg	0300013.jpg 0300014.jpg 0300004.jpg 0300002.jpg

- 3. Use the 1 "UP" and I "DOWN" button to adjust the play sequence of the video files in the play-list. Use to delete the video file if you want to remove it from the play-list.
- 4. Edit the property such as repeat cycle and the playback volume in the "Video Property" field.

Play Lists		
Video	Graphics	Text
0100001.m2p 0100002.m2p	0200017.jpg 0200016.jpg 020004.jpg 020004.jpg 0200011.jpg	0300013.jpg 0300014.jpg 0300004.jpg 0300002.jpg
-Video Property		
Type MPEG2	Volume	15 Left 0 Width 0
Repeat 2 time Duration 17	sec	Top 0 Height 0

Note:

If the "Left,Top,Width,Height" is set to "0,0,0,0", the video clip resolution will be automatically adjusted to fit the display screen list.

3.6.2. Graphic Files

1. Add new graphic file: You can either drag and drop the graphic files into the graphic database, or right click on the mouse to bring out the "Add/Delete" pop-up windows as below. Select "Add" to insert the graphic file(s) that you want to include into media database.

Composer	- C:\Program	Files\DS <i>i</i>	12100A (ompose	er\progran	ns\test2						_ 🗆 >
New	Open 2	V Cor	fig 😡	Save	Fo T	io Ider 🤞	V To USB	Real Provide P	To Player	🔊 E	xit	
Media Datab	ase											
Video G	raphics Text											
Index	Filename	Туре	Width	Height	Source				Size		Last Modifie	d 🔺
00008	0200008.jpg	ipg	224	708	C:\Media S	Sources\0	iraphic_;	224x708\	43828		09/12/2005	15:14
00009	0200009.jpg	ipg	224	708	C:\Media 9	Sources\(iraphic_	224x708\	36247		09/12/2005	1511
00010	0200010.jpg	ipg	224	708	C:V 📐 Ad	d	iraphic_;	224x708\	32757		09/12/2005	15:2
00011	0200011.jpg	ipg	224	708	C:VI NDe	lete	iraphic_3	224x708\	36247		09/12/2005	15:12
00012	0200012.jpg	ipg	224	708	C: Vhreura s	rources d	iraphic_3	224x708\	49088		09/12/2005	15:1(-
11111	0000040.			700	0.10				00070		00.140.10007	- P
Daily Sched	ule						E 48	43 46	40.00			
013	2345	б /	8 8	9 10	11 12 1	3 14 1	5 16	17 18	19 20	21 22	23 24	
Discut Set												
lay Lists												

- 2. Drag-and-drop the selected graphic file(s) from the media database to the graphic "Play Lists" field in the middle.
- 3. Use the 10" "UP" and 100 "DOWN" button to adjust the play sequence of the graphic files in the play-list. Use 100 to delete the graphic file if you want to remove it from the play-list.
- 4. Edit the property of the graphic contents
 - (3) Length of display time: input the desired length of display time. Minimal display time is 1 second.
 - (4) Select graphic transition effect: DSA Composer offers 8 different transition effects, i.e. Wipe Down, Wipe Up, Wipe Right, Wipe Left, Split Horizontal In, Split Horizontal Out, Blind Horizontal, Blind Vertical, etc.
 - (5) Select overlap and/or transparency effects.
 - (6) Set the position and size of the graphic frame.

Daily Schedule 0 1 2 3 4 5 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24
Play Lists		
Video	Graphics	Text
0100001.m2p 0100002.m2p	0200017.jpg 0200016.jpg 0200004.jpg 0200011.jpg	0300013.jpg 0300014.jpg 0300004.jpg 0300002.jpg
	1 X I	
Picture Property		
Time 5 sec	🔽 Overlap	Left 0 Width 224
Transition None	▼ Transparen	t 50% Top 60 Height 708
Wipe Up Wipe Right Wipe Left Split Horizont Split Horizont Blinds Horizon	lln IOut tal ▼	

3.6.3. Text Files

- Add new text file: You can either drag and drop the text files into the text database, or right click on the mouse to bring out the "Add/Delete" pop-up windows as below. Select "Add" to insert the text file(s) that you want to include into media database.
- 2. Once you insert the text file, a dialog box will pop up and allow you to set the background color and font of the text. DSA Composer will convert the .txt file into the .jpg format automatically.

muex	Filename	Туре	Width	Height	Source		Size	Last Mod	lified	
00001	0300001.jpg	ipg	6443	60	C:\Media Sources\xmas tree	.txt	113862	10/02/20	006 18:05	
00002	0300002.jpg	ipg	464	60	C:\Documents and Settings\	itd.mis\D	10721	19/04/20	006 09:59	
10003	0300003.jpg 0300004.jpg	IPg ipg	6443 324	60	C:\Documents and Settings\ C\Documents and Settings\	itd.mis\D	7693	27/06/20	JUE 10:24	
10004	5555504.jpg	Convert 1	ГХТ			(Construction of the)	and an end of	2.700720		
		From	n C:\De	cuments	and Settings\itd.mis\Desktop\S	ources\1.b	t		19	
Sohod	ula	_					1			
i	ale 2 3 4		Back C	olor:	Font			22 23 2	4	
					400					
					ABU					
										<u>.</u>
Lists					Preview Cance	· 1	ОК			
Lists D10000	2.m2p				Preview Cance		OK I			
Lists 010000 010000	2.m2p 1.m2p			0,0000	Preview Cance		OK 300004.jpg		1	
Lists 010000 010000	2.m2p 1.m2p			0 0000	Preview Cance		0K 300004.jpg			
Lists 01 0000 01 0000	2.m2p 1.m2p			C 0000 C 0000 C 0000	Preview Cance		0K 800004.jpg			
Lists 010000 010000	2.m2p 1.m2p			0 0000 0 0000 0 0000	Preview Cance 15.jpg 14.jpg 13.jpg Convert 17		0K			
Lists 010000 010000	2.m2p 1.m2p				Preview Cance 15.jpg 14.jpg 13.jpg Convert 17 From:	C:\Docu	OK 300004.jpg ments and Se	ettings\itd.mis\	Desktop\Source	ces\1.txt
Lists D10000 D10000	2.m2p				Preview Cance	I C	0K 300004.jpg ments and Se	ettings\itd.mis\	Desktop\Sourc	ses\1.txt
Lists 010000 010000	2.m2p				Preview Cance 15 jpg 14 jpg 13 jpg Convert 17 From:	C:\Docu Back Colo	0K 300004.jpg ments and Se r: Fi	ettings\itd.mis\	Desktop\Sourc	pes\1.txt
Lists 010000 010000	2 m2p 1.m2p perty			0 0000 0 0000 0 0000	Preview Cance 15 jpg 14 jpg 13 jpg Convert 17 From:	I C:\Docu Back Colo	0K 300004.jpg ments and Se	ettings\itd.mis\ ont:		ces\1.txt
Lists D10000 D10000	2.m2p 1.m2p perty				Preview Cance 15.jpg 14.jpg 13.jpg Convert 1 From:	I OC	0K 300004.jpg ments and Se r: Fi	ettings\itd.mis\ ont: \LBC	Desktop\Sourc	bes\1.bxt

- 3. Confirm the setting of the background color and font selected by clicking "OK." Click on "Preview" for a look of the text before confirming the change.
- 4. Drag-and-drop" the selected text file(s) from the media database to the text "Play Lists" field on the right hand side.
- 5. Use the 1 "UP" and 1 "DOWN" button to adjust the play sequence of the text files in the play-list. Use to delete the text file if you want to remove it from the play-list.

Play Lists Graphics 0100001.m2p 0200017 0100002.m2p 0200010 0200011 0200010 0200011 0200011	ipg ipg ipg ipg ↑ × ↓	Text (300013 jpp 0300014 jpp 0300002 jpp (300002 jpp)
Repeat 1 time Step 3 v pixel	Overlap Transparent 50%	Left 0 Width 1024 Top 0 Height 60

- 6. Edit property of the text
 - (1) Click on each text file in the play-list and determine the number of times you would like the text to be repeated.
 - (2) Set the speed of the scrolling text by how many pixel the text moved per second. The recommended speed is "4." If you would like the text to be scrolled slower, set the figure to "3." Adjust as necessary.
 - (3) Select overlap and/or transparency effects.
 - (4) Set the position and size of the text bar.

3.7. Save Program

You can save the edited program to the default directories in the local drive. This action will not modify the loaded program in the player.

Click the "**Save**" button when you finish editing the play-list. (All the play-list and media files are saved.) Please note that the opened program will be replaced.

Composer	- C:\Program	Files\DSA	2° JUA (ompose	programs\test2		
New	Open S	X Co	ig 🤪	Save	To Folder 🔊 To USB	fo ayer	Exit 🛛 🔊
Media Datab	ase						
Video Gr	aphics Text						
Indeu	Filonomo	Tune	1. Gebb	Hojaht	Course	Cine	
Index 00010	rilename	i ype		co	Source	512e	
00010	0300010.pg	IP9	215	60	C: Documents and Settings Vita mis VM	4136	14/05/2006 14:20
00011	0300011.pg	IP9	34 0E	60	C:\Documents and Settings\itd.mis\M	2030	14/03/2006 14:32
00012	0300012.pg	IPg	200	60	C: Documents and Settings tito.mistm	2424	14/03/2006 14:34
00013	0200013.pg	ipg	230	00	C. Occuments and Settings vita mis M	19926	14/03/2006 16:51
00014	0300014.pg	IP9	1340	00	C. Obcuments and Settings titu. Inis twi	13020	14/03/2006 17.10
•							<u>→</u>
Jailv Schedu	le						
0 1 2	345	67	8 9	10	1 12 13 14 15 16 17 18 1	9 20 21 2	2 23 24
		_	-				
Plau Liete							

3.8. Export Program

DSA Composer offers different methods to export a program to the player. When a program is open and/or edited, you can load the program to the player through:

- (1) A USB storage dongle (USB drive), then manually load the program to the player; or
- (2) The default place in the local drive where the player will automatically download the newly modified play-list schedule; or
- (3) A local or remote web server, where the player can download the new play-list schedule with customized setting.

Note:

If you have designated a display timeslot to play the contents, the player will be activated to play the newly uploaded content at the next applicable time. For example, if you have allotted the schedule to play your managed content at 8AM, but the time of day is already 10AM, the player will not display the new content until 8AM the next day. Please also note that if there is no specific timeslot assigned in the "Daily Schedule", the player will be activated immediately after the new program is uploaded.

3.8.1. Export through USB

- 1. Click the "**To USB**" button, and then a dialog with "Drive Select" will pop up from the screen.
- 2. Choose the correct drive and click "OK". The media files and play-list will be updated to the USB storage.

Indou	Filenama	Tuno	Vu fidth Lininht	Cauraa	Cine	Last Mediliad
00010	0200010 ipg	ing	215 C0	CiDeoumonte and Settinge it dirici M	4126	14/09/2006 14-20
00010	0300010.pg	ipg III	213 60	C. Occuments and Settings vita mis M	4130	14/03/2006 14:20
00012	0300012 ipg	ing E	Drive Select	I Settings (id. mis M	2424	14/09/2006 14:34
00013	0300013.jpg	ipa		d Settings vitd.mis VM	7178	14/09/2006 16:55
00014	0300014.jpg	ipg	🖃 c: []	 Settings\itd.mis\M 	19826	14/09/2006 17:16
4						1.1
		-	🖃 e: []			

3. Plug the USB storage into the DSA player when it's power off, and then turn on the player. It will load the play-list & media files into the internal memory drive.

3.8.2. Export to Player Directly

DSA Composer provides a convenient method to export a program to the player via network or direct cable connection. Exporting is accomplished by a built-in tiny browser running in the background and you have to keep the Composer up and running until the DSA Player downloads the program completely. The program will be loaded to the directory in a local drive where the DSA player will download the newly updated play-list automatically based on the player's default setting. The program will be automatically saved before exporting.



3.8.2.1 Export via Direct Cable Connection

- 1. Please make sure your PC/Notebook IP address is set to 192.168.1.1 and the Net Mask is 255.255.255.0
- 2. Connect a "cross over" type of network cable between your PC and the Player
- 3. Click on "To Player" and you will have a "Export Successfully" message after the upload is complete
- 4. The Player will start the download within 60 seconds (default)

3.8.2.2 Export via LAN

- 1. Please make sure your PC/Notebook IP address is set to 192.168.1.1 and the Net Mask is 255.255.255.0
- 2. Connect your PC to the network.
- 3. Click on "To Player" and you will have a "Export Successfully" message after the upload is complete
- 4. The Player will start the download within 60 seconds (default)

Note: Please make sure you have set Net Mask as <u>255.255.255.0</u> in a	your PC/Notebook IP address as <u>192.168.1.1</u> and the advance.
L. eth0 Properties General Authentication Advanced Connect using: Intel(R) PRD/100 VE Networ This connection uses the following i Client for Microsoft Networ General Client of Microsoft Networ General Client Sharing for General Client Protocol (TCP/IP)	? × Internet Protocol (TCP/IP) Properties ? × General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. C Obtain an IP address automatically © Use the following IP address:
Install Uninst Description Transmission Control Protocol/Int wide area network, protocol that µ across diverse interconnected network protocol that µ Image: Show icon in notification area w Image: Notify me when this connection	IP address: 192.168.1.1 Subnet mask: 255.255.0 Default gateway: . O Obtain DNS server address automatically O Use the following DNS server addresses: Preferred DNS server: Alternate DNS server: Advanced OK

3.8.2.3 Export via Corporate LAN

- 1. Please consult with your Network/System Administrator to get the correct network information and configure the DSA player accordingly. (please reference Sec. 4.4.1)
- 2. Connect your PC to the network
- 3. Click on To player and you will have a "Export Successfully" message after the upload is complete
- 4. The Player will start the download within 60 seconds (default)

3.8.3. Export to Player through Web Server

Click the "**To Folder**" button to save the program to a chosen designation where the DSA player will download the program via a local or remote web server. (All the play-list and media files are saved.) The player will download the program from it based on the setting with the DSA Configurator. (See **Chapter 4.** for more information)

New Open Config Sve To To USB To Exit Wedia Database Open Sources To USB To Sources Exit Sources Index Filer Sources Doskoof Doskoof Doskoof Sources Etings/lid/mis/M 4136 14/09/2006 14.23 O010 0300 DOSA-2000 Manual Doskoof Doskoof Etings/lid/mis/M 2533 14/09/2006 14.23 O0113 0300 DOI14 Becycle Bin Etings/lid/mis/M 2133 14/09/2006 14.23 My Network/ Places Entire Network Exit Modify Computer Image: Source Image: Source <td< th=""><th>Composer - C:\Pro</th><th>gram Files\DSA2100A Composed any on the</th><th>st2</th><th></th></td<>	Composer - C:\Pro	gram Files\DSA2100A Composed any on the	st2	
Media Database Open Video Graphic Index Filer 0001 0300 00011 0300 00012 0300 00013 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 00014 0300 0014 0300 0014 0300 0014 0300 0014 0300 0014 0300 0015 0000 0300 0000 0300 0000 0300 0000 0300 0000 0300 0000 0300 0000 </td <td>New 🔷 0</td> <td>pen 🐼 Config 🐼 Save 🐼 Folder</td> <td>To USB</td> <td>Exit 💦</td>	New 🔷 0	pen 🐼 Config 🐼 Save 🐼 Folder	To USB	Exit 💦
Index Filer 00010 0300 00011 0300 00012 0300 00013 0300 00014 0300 00015 0300 00014 0300 00015 0300 00014 0300 00015 0300 00014 0300 00015 0300 00014 0300 00015 0300 00014 0300 00015 0300 00016 0300 00017 0300 00018 Recycle Bin Below My Documents Stitugiskid misVM 2138 My Documents My Morkgroup My Morkgroup My Computer 16 17 18 19 18 14 14 19 1 1 1 19 1 1 1 18 19 20 1 2	Media Database Video Graphics	pen	×	
Video Text	Index Filen. 00010 0300 00011 0300 00012 0300 00013 0300 00014 0300 Image: state sta	DSA-work DSA-200 Manual DSA-2100 Manual Recycle Bin My Documents My Network Places Min Network Min Cosoft Windows Network Big Workgroup	Size ettings\itd.mis\M 4136 ettings\itd.mis\M 2538 ettings\itd.mis\M 2424 ettings\itd.mis\M 7178 ettings\itd.mis\M 19826 5 16 17 18 19 20 21	Last Modified ▲ 14/09/2006 14:2(14/09/2006 14:3; 14/09/2006 1
0100002.m2p 0100001.m2p 0K Cancel 0300003.jpg 0300010.pp	Play Lists Video 0100002.m2p 0100001.m2p	OK Cancel	Text 0300003.jpg 0300013.jpg 0300010.jpg	

Note:

Please make sure the web server is in the same subnet with the DSA player, so the DSA player can download the program correctly. For example, the default setting of the DSA player is as IP address: <u>192.168.1.100</u> and the Net Mask: <u>255.255.255.0</u>, then the IP address of the web server needs to be <u>192.168.1.x</u> (x could be any number between 1 and 254, except 100.)

Chapter 4. DSA Configurator Utility

4.1. DSA Configurator Utility Main Menu

The DSA Configurator is the utility with which you can change and edit the configuration setting of the DSA player. A default configuration setting has already been loaded in the player.

Use the tool bar on top of the DSA Configurator window to create, open and save the configuration file.

👝 DSA Configure Utility
Network Server Output System Advanced
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
C) Obtain an IP address automatically
C Use the following IP address
IP address:
Subnet mask:
Default gateway:
DNS server:

4.2. Create New Configuration

1. Click the "New File" button in the tool bar; the "Open/New file" dialog will pop up from the screen.

25A Configure Utility
work Server Output System Advanced
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
O Obtain an IP address automatically
Use the following IP address:
IP address:
Subact made:

2. Input your new DSA configuration file name with path.

4.3. Open Existing Configuration

1. Click "Open File" in the menu bar; the "Open/New file" dialog will pop up from the screen.



- 2. Select your specific DSA configuration file then click "OK.".
- 3. DSA Configure will display default values of the selected configuration file.

4.4. Edit Configuration

Enter each field in every tab of DSA Configuration to edit settings on Network, Server, Output, System and Advanced settings for the DSA player.

4.4.1. Set Network Items

Under the "Network" tab, for DHCP network, choose "Obtain an IP address automatically"; for Static IP address network, enter the pre-defined network settings for the signage player (Please consult your network administrator for detail network information).

	DSA Configure Utilit	/	_ 🗆 X
N	etwork Server Outpu	it System Advanced	
	Tou can get IP se Otherwise, you n Obtain an IP add	ettings assigned automatically if your network supports this ca eed to ask your network administrator for the appropriate IP se ress automatically IP address:	≀pability. ≀ttings.
	IP address:	192.168.100.1	
	Subnet mask:	255.255.255.1	
	Default gateway:		
	DNS server:		

4.4.2. Set Server Items

Under the "Server" tab, set the configuration of the media server and the interval for data updating.

🖿 DSA Configure Utility	_ 🗆 🗙
Network Server Output System Advanced	
The DSA-2100, will get data from the Web Server address set here it will check the	server
for new data periodically (polling internal). Set the Heartbeat address if you have a wei application to monitor the DSA-2100A	,
application to monitor the DOV2100X.	
DSA-2100A media server	
Server URL: http:// 1921681.1	
Sub folder: /dsa	
Username: Password:	
Polling interval: 60 Seconds. (min.60 seconds)	

4.4.3. Set Output Items

Click on the "Output" tab to set DSA video output option. Please select the resolution of the display screen that you will be using to display the play-list you have created.

👛 D9	5A Configure L	Itility	×
D		$\overline{}$	
Netv	vork Server C	Dutput System Advanced	
	You can sere you used in y Videooutput	1.1 undeo output port and video resolution(size). Please note the resolution our media programs/playlists should match the resolution setting here.	
	C TV	Video Circuite MTCC	
	U IV	Video signal: INTSC	
	⊙ DVI/VG.	A Resolution: 1024*768	
		640×480 (TV)	
		1024*768	
		1280×1024 1290×720 (16:9)	

4.4.4. Set System Items

Click on the "System" tab to set the system time and the RS-232 Configuration.

🔁 DSA Configure Utility	_ 🗆 🗵
Network Server Dutpu System Advanced	
Set System Time	
Set System Time: 2006/ 9/20 ▼ T∓ 02:23:42 +	
Time Zone: GMT+8	
Set RS-232 Config	
Baud Rate: 9500 Vumber of Data Bits: 8	
Parity: none Vumber of Stop Bits: 1	
Misc. Setting	
Machine name: Maximum Number of Scroll Text: 3	-

4.4.5. Advanced Items

- 1. You may select "Enable log uploading" and enter the uploading server URL.
- 2. For exception handling, you may select "Send notification to server" and enter a designated server to send the notifications.
- 3. Heartbeat refers to the time interval for data updating proactively from media server. You can enter a designated server to send the heartbeat.

🚘 DSA Configure Utility		_ 🗆 🗙
Network Server Output System	Advanced	
You can set the web addres	ses for DSA-2100A to send its log files and notifications.	
Log		
Send log to:		
Send log interval:	300 Seconds. (min.300 seconds)	
Send notification to:		
Heartbeat		
Send heartbeat to (URL):		
		_

4.5. Save Edited Configuration

- 1. Click "Save" on the tool bar located in the "DSA Configure" screen; the "Confirm" dialog box will pop up a log containing the change you have made.
- 2. Click the "Save" button in the "Confirm" dialog to save the configuration locally or go to the steps in **Section 4.6** to export the configuration to the DSA player.

🖆 DSA Configure Utility		
Network Server Output System Advanced	Confirm	
The DSA-2100A will get data from the Web for new data periodically (polling internal).S application to monitor the DSA-2100A. DSA-2100A media server Server URL: http:// 192.168.1.1 Sub folder: //dsa Username: Pas Polling interval: 60 Seconds.	New configuration data: IPADDR=DHCP BASEURL=http://132.168.1.1:8000/dsa HEARTBEAT_PERIOD=60 VIDEO_FORMAT=VESA_1024x768x60 LOG_POST_PERIOD=300 OSD_W=1024 OSD_H=768 SCROLL_NUM=3 COM_BAUDRATE=9600 COM_DATABITS=8 COM_PARITY=0 COM_STOPBITS=1 Save to UB	re Cancel

4.6. Export Configuration to Player

- 1. Click "Save to USB" in the "Confirm" dialog.
- 2. Select the USB storage device and click "Save" to begin exporting.

🖴 DSA Configure Utility		<
Network Server Output System Advanced	Confirm	_ 🗆 🗙
The DSA-2100A will get data from the Web for new data periodically (polling internal).S application to monitor the DSA-2100A. DSA-2100A media server Server URL: http:// 192.168.1.1 Sub folder: //dsa Username: Pa: Polling interval: 60 Seconds.	New configuration data: IPADDR=DH(Drive Secect I CONTROLLER BASEURL=ht HEARTBEAT VIDEO_FORM C C I VIDEO OSD_V=102: C I C I VIDEO OSD_V=102: C I C I VIDEO SCROLL_NUL COM_BAUDRATE C 2 I COM_OATABITS=0 COM_STOPBITS=1 Save to USB Save C	×

3. Plug the USB storage into the DSA media player when it's power off, and then turn on the player. It will download the new configuration setting automatically.