

USER MANUAL FOR SX-3000 STANDALONE INTEGRATED MEDIA BLOCK™

SMS version 9.0

February 14, 2013



www.gdc-tech.com

Powering your digital cinema experience



SX-3000 Standalone Integrated Media Block™

GDC Technology's Standalone Integrated Media Block™ ("IMB"), the SX-3000, the industry's first Standalone IMB™ eliminates the need for an external file server.

TABLE OF CONTENTS

1. INTRODUCTION	11
1.1. About This Manual	11
1.2. Safety Instructions	12
1.2.1. General Safety Instructions	12
1.2.2. Electrical Safety	12
2. SMS	13
2.1. About the SMS Interface	13
2.2. Accessing the SMS Interface	13
2.3. Understanding the SMS Interface	
2.3.1. Main Menu	
2.3.2. Playlist Menu	
2.3.3. Scheduler Menu	19
2.3.4. Configuration Menu	20
2.3.4.1. General	20
2.3.4.2. CineCanvas	23
2.3.4.3. Assistance	24
2.3.4.4. Audio Option	25
2.3.4.5. Closed Captions Option	26
2.3.4.6 IMB Network Tab	27
2.3.4.7 IMB Storage Tab	29
2.3.5. SNMP Configuration	
2.3.5.1. Introduction	
2.3.5.2. Accessing the SNMP Configuration Interface	
2.3.5.3. Understanding the SNMP Configuration Interface	
2.3.5.3.1. General	
2.3.5.3.2. Storage	
2.3.5.3.3. Video Card	
2.3.5.3.4. PCI	35
2.3.5.3.5. Sensors	
2.3.5.3.6. Restart/Save/Cancel	

2.3.5.3.7. Ethernet	
2.3.6. Automation	
2.4. Show Playlist	47
2.4.1. Create a Show Playlist	
2.4.1.1. Access to Playlist Menu	
2.4.1.2. Creating a Playlist	
2.4.1.3. Editing Cues	
2.4.1.4. Saving the Playlist	
2.5. Show Schedule	55
2.5.1. Schedule a Show	55
2.6. Synchronizing Shows	61
2.6.1. Synchronizing Clips for 3D (MPEG2)	61
2.7. IMB Configuration	63
2.7.1. CineCanvas™ and CineLink™ Configuration	63
2.7.2. Dolby 3D Setup	67
2.8. Series 2 DLP CINEMA [®] Projector Setup	69
2.8.1. Automation Setup	69
2.8.2. Subtitle Overlay	71
2.8.2.1. Subtitle Overlay Setup	71
2.8.2.2. Subtitle Language Selection	71
2.8.3. CineCanvas [™] Support for Series 2 Projectors	75
2.9. Shutdown/Restart Application	76
2.9.1. Shutdown or Restart	76
3. CONTROL PANEL	77
3.1. About Control Panel	77
3.2. Control Panel Menu	78
3.3. Manual Automation Execution	79
3.4. Restarting the Control Panel	
3.5. Shutting Down the System	
4 CONTENT MANAGER	

4.1. About the Content Manager	83
4.1.1. Introduction	
4.1.2. Accessing the Content Manager	
4.2. Content Management	84
4.2.1. Ingesting Content	
4.2.2. Ingesting Content from USB Disk	
4.2.3. Ingesting KDMs	
4.2.4. Monitor Ingest Progress	
4.2.5. Cancelling Ingest	
4.2.6. Deleting Content	
4.2.7. Checking Content Integrity	
4.3. KDM Management	97
4.3.1. Manage KDM	
4.4. Source Management	98
4.4.1. Adding a Data Source	
4.4.2. Erasing a Data Source	
4.4.3. Editing Sources	
5. ADMIN PANEL	104
5.1. General Introduction	104
5.2. User Interface (UI)	105
5.2.1. Introduction	
5.2.2. Admin Panel Access	
5.2.2.1. Access via Control Panel	
5.2.2.2. Access to Admin Panel Menu	
5.2.2.3. Main Menu	
5.3. Configuration & Maintenance	109
5.3.1. Storage System Management	
5.3.1.1. Create new RAID array	
5.3.1.2. Add Disk to RAID Array	
5.3.1.3. Remove Disks from RAID Array	
5.3.1.4. Monitor RAID Status	116

5.3.1.5. Hard Disk Information	
5.3.1.6. Hard Disk Usage	
5.3.1.7. Import RAID Array	
5.3.1.8. Storage Performance	
5.3.2. Diagnostics/Maintenance	
5.3.2.1. Access to Diagnostics/Maintenance	
5.3.2.2. Extract Logs & Configuration	
5.3.2.3. Backup Configuration	
5.3.2.4. Restore Configuration	
5.3.2.5. Configure Timezone	
5.3.2.6. Software Upgrade	
5.3.3. System Information	
5.3.3.1. Access to System Info	
5.3.3.2. Software/OS Version	
5.3.3.3. Hardware Information	
5.3.3.4. Hotfix Information	
5.3.4. Touchscreen	
5.3.4.1. Access to Touchscreen	
5.3.4.2. Select Touchscreen Type	
5.3.4.3. Calibrate Touchscreen	
5.4. User Manager	139
5.4.1. Access to User Manager	
5.4.2. Add/Edit user	
5.4.3 Delete User	
5.4.4. Change Current User Password	
5.5. DCI Compliance	144
5.5.1. Access to DCI Compliance	
5.5.2. Offset RTC Time	
5.5.3. Get SM Log	
5.6. Quit/Shutdown	
6. IMB OPERATION NOTES	

6.1. Power Up Sequence	149
6.2. Power Down Sequence	

Thank you for purchasing a GDC SX-3000 Standalone Integrated Media Block™ from GDC Technology Limited.

To ensure proper operation and to maximize the IMB's value, please review this User Manual. It will guide you through all the features and benefits of the new SX-3000 Standalone Integrated Media Block™.

COPYRIGHT NOTICE

Copyright © 2013 by GDC Technology Limited

All rights reserved. No part of this manual may be copied or distributed, transmitted, transcribed, stored in a retrieval system, or translated into any human or computer language, in a form or by any means, electronic, mechanical, photocopying, recording, magnetic, optical, manual or otherwise, or disclosed to third parties without prior written permission of GDC Technology Limited.

MANUAL DISCLAIMER

This manual is made with SMS version 9.0 and there might be slight differences depending on the software version the IMB is running. The contents, features and specifications stated in this manual are subject to change without notice due to continuous product development and improvements. In no other event shall GDC Technology Limited be liable for any loss of profit or any other commercial damages, including but not limited to special, consequential, or other damages.

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.

CONTACTS AND OFFICES

Website: www.gdc-tech.com Email: info@gdc-tech.com

24/7 Engineering Support Hotline:

America	+1 877 743 2872 (Toll Free)	South East Asia	+65 6100 4328
Europe	+34 616 257 894	Australia/ New Zealand	+65 6100 4328
China	+86 400 886 0966 (Toll Free)	North Asia	+852 3520 0920

USA (Los Angeles, CA)



GDC Technology (USA) LLC 1016 West Magnolia Boulevard, Burbank, CA 91506, USA

Tel: +1 818 972 4370/ + 1 877 743 2872 (Toll Free) Fax: +1 877 643 2872

Japan (Tokyo)



GDC Digital Cinema Network GG. 7F Nishino Kinryo Bldg, 4-9-4, Hatchobori, Chuo-ku, Tokyo 104-0032, Japan

Tel: +81 3 3523 2650 Fax: +81 3 3523 2651

USA (Sterling, VA)



GDC Technology of America LLC 21155 Whitfield Place Suite 207, Sterling, VA 20165, USA

Tel: +1 877 337 0868 (Toll Free)

Fax: +1 571 313 0468

Singapore



GDC Technology Pte Limited 10 Ubi Crescent, Ubi Tech Park, Lobby B, #06-25, Singapore 408564

Tel: +65 6222 1082 Fax: +65 6222 1089

China (Shenzhen)

Spain (Barcelona)

GDC Digital Cinema

Office 72 and 73,

Technology Europe, SL

Av. Josep Tarradellas,

nº 38, 08029 Barcelona

Tel: +34 93 355 49 72

Centro de Negocios Josep



GDC Technology (Shenzhen) Limited 5th floor GDC Building, No.9 Hi-tech Middle 3 Road, Science & Technology Park, Nanshan District, Shenzhen, P.R. China 518057 Tel: +86 755 8608 6000 Fax: +86 755 8608 8098

Hong Kong



GDC Technology Limited

Unit 1-7, 20th Floor, Kodak House II, 39 Healthy Street East North Point, Hong Kong Tel: +852 2523 6851

Fax: +852 2579 1131

China (Beijing)



GDC Technology (Beijing) Limited Rm 609-618, Office Building 20# Xinde Street, Xicheng District, Beijing, P.R. China 100088

Tel: +86 10 6205 7040 Fax: +86 10 6205 7054

SX-3000 Standalone Integrated Media Block™ User Manual

1. INTRODUCTION

1.1. About This Manual

This user manual provides instructions on how to use and manage the GDC SX-3000 Standalone Integrated Media Block[™] ("IMB"). The user interface of the IMB consists of a few key components described in the diagram below **[Figure 1]**. The manual has sections on each of these components describing how it can be used to operate the IMB.



Figure 1 IMB UI components.

1.2. Safety Instructions

1.2.1. General Safety Instructions

- The IMB is intended for installation in a restricted access location.
- The operation environment required for the IMB should be 0°C 40°C (32°F 104°F).
- For PLUGGABLE EQUIPMENT, the socket outlet should be installed near the equipment and should be easily accessible.
- Before operating your IMB, please read this manual thoroughly, and retain it for future reference.
- Installation and preliminary adjustments should be performed by qualified GDC Technology personnel. All warnings on the IMB and in the documentation manual should be adhered to.
- All instructions for operating and maintaining the IMB must be followed closely.

1.2.2. Electrical Safety

Safety Warning

- Do not expose the IMB to rain or moisture, to prevent fire or electrical shock hazard.
- Use a dry cloth when cleaning the IMB.
- Do not block any ventilation openings.
- Do not install near any heat sources (e.g. radiators, stove or other apparatus that produce heat).
- Consult Tech Support for servicing or maintaining the IMB.
- You are cautioned that any change or modification not expressly approved in this manual or approved in writing by an authorized representative of GDC Technology could void your warranty and/or authority to operate this IMB.

2. SMS

2.1. About the SMS Interface

The SMS interface is used for playback control, creating and editing playlists, scheduling and also provides access to advanced configuration options.

9:03 pm 05 Feb 2013	Screen 1: SM C Show: JPEC	onnected G2K 2D	ð
OS-SX3K-1.0.0		hh mm	ss ff frame#
[Serial #A07457:0] [D	SR Server 9.00-build85]	Duration - 00 h Remaining - 00 h	r 02 min 10 sec nr 02 min 10 sec
Alert	Description		
Control Panel	Scheduler Configura	tion Shutdown	SX-3000 Standalone
Figure 2 SMS interface.			
1 Enter t	1 Enter the user password to access the SMS interface as seen in Figure 2.		

2.2. Accessing the SMS Interface



[▶] Play button. The [>] button starts playback when pressed, and is disabled 1 when the system is in paused mode. 2 []]] Pause button. The [II] button is enabled when the system is in playing or pause mode. To resume from pause simply hit the Pause button again. 3 Stop button. The [I] button is enabled when the system is in playing mode, and stops playback when pressed. 4 Playlist button. Press []] to open the Playlist menu to create a playlist. For []] more information about the Playlist menu, please refer to Section 2.3.2. Playlist Menu further below.

5	[Slider Bar]	It will start advancing when [▶] is pressed to start a playback. One clip will take one complete cycle from the left to the right. The Slider Bar always returns to the starting point (extreme left) after a clip is finished. When [■] is pressed, the Slider Bar will stop and return to its starting point. When playback is paused, the Slider Bar can be moved. The Slider Bar can be moved to the left (for rewinding) or to the right (for forwarding).	
6	[14]	Move to the first frame of the clin	
	[44]	Rewind (move back) by the number of frames of the playback.	
	[]]	Forward (move forward) by the number of frames of the playback.	
	[>]	Move to the last frame of the clip.	
7	[Status Display]	Reports the status of the system. The display shows the number of clips in the active playlist, the name of the active playlist, and the name of the clip currently being played.	
8	[7]	INFORMATION button. If [<i>i</i>] is pressed when the system is in <u>stopped mode</u> , the system will show the serial number and the software version of the IMB. A text box will appear beside the Timecode Display (replacing the navigating buttons [$[\P][\P][\Psi][P]$) and the text box will show the serial number and software version of the IMB.	
		OS-SX3K-1.0.0 Serial Number [Serial #A07457:0] [DSR Server 9.00-build85] Software Version	
9	(A)	SCREEN LOCK button - The SCREEN LOCK function will prevent any unintentional screen touches or mouse clicks that could disturb playback.	
		The screen will be locked when $[\]$ button is pressed. No access to the Main Menu (or associated menus) is allowed when the screen is locked. The User level password or higher is needed to unlock the screen.	
		If the screen is locked while the system is playing, the name, duration and the remaining time of the clip will be shown on the screen while the clip is playing.	
10	[Control Panel]	CONTROL PANEL button – For returning to the control panel screen of the user interface.	
11	[Scheduler]	SCHEDULE button – For scheduling the time and date of the playlists to be shown. The playlist can also be looped for a period of time. For more information about Scheduler, please refer to Section 2.3.3. Scheduler Menu.	
12	[Configuration]	CONFIGURATION button – For changing the general options on the system (e.g. enable startup/ shutdown password, change access level passwords, perform software upgrade, etc.). For more information, please refer to Section 2.3.4. Configuration Menu.	
13	[Shutdown]	SHUTDOWN button. For shutting down the IMB or restarting the application. For more information, please refer to Section 2.9 Shutdown/Restart Application.	





1	[IMB Content]	The IMB content is listed here. Content is shown in alphabetical order grouped by [Trailer, Feature, etc]. Available automation cues are listed under cues.
2	[Playlist Content]	The contents of the playlist being currently edited are shown here.
3	[Clip Information]	Displays information about the selected item in the Content. This includes the Name, total Duration, Sound (Audio) format, Content format, if Encryption is present, if a Composition Playlist exists, if it has Subtitles and if a current KDM is on the IMB.
4	[+]	Adds content to the Playlist by pressing [+] after an item from the Content is selected.
5	[-]	Removes the selected item from the Playlist content.

SX-3000 Standalone Integrated Media Block™ User Manual

6	[Loop]	When [Loop] is selected, the contents in the Playlist will run continuously in a loop when [▶] is pressed.	
7	[3D Sync]	Synchronizes clips for 3D showing.	
8	[Clear]	Removes all clips on the playlist.	
9	[Edit Cue]	Click the Edit Cue button to bring up the cue editing interface, used to add, remove or edit existing automation cues for the selected clip in the playlist (See Section 2.4.1.3.).	
10	[Start Frame]	Allows specifying the timecode or frame number where playback of each clip starts in this playlist.	
11	[Moves the highlighted clip in the Playlist ahead in chronological order. Makes sure an item is selected from the Playlist before pressing [1]. When [1] is pressed, the selected item will move to before the previous clip.	
12	[₽]	Moves the highlighted clip in the Playlist down in chronological order. Makes sure an item is selected from the Playlist before pressing [♥]. When [♥] is pressed, the selected item will move to after the next clip.	
13	[Shows]	This displays a list of all the playlists saved. Selecting a playlist here displays the contents of the playlist for editing. A playlist that is currently playing may not be edited. NOTE: Selecting a playlist here does not load it for playback. The "Load Show to Play" button has to be pressed to load the playlist into the player	
		for playback.	
14	[Load Show To Play]	Loads the selected playlist into the player for playback.	
15	[Save Show]	Saves the playlist currently being edited.	
16	[New Show]	Creates a new blank show playlist. A name must be specified for the playlist.	
17	[Delete Show]	Make sure an item is selected in the Shows drop-down menu. When [Delete Show] is pressed, the system will delete the selected playlist and remove it from the Shows drop-down menu. The delete action is irreversible. The system will prompt you to confirm the delete action before it proceeds to delete the playlist.	
18	[Copy Show]	Duplicates currently selected playlist. When [Copy Show] is pressed, a text entry keypad will appear for you to enter the new name of the duplicate playlist.	





Figure 5 Scheduler menu.

1	[Select Date]	Specifies the date and time of the schedule.
2	[Timeline]	Displays shows scheduled on a 24-hour timeline for the date selected in (1).
3	[Selected Schedule Information]	Displays information such as name, time and duration of the selected show schedule.
4	[Delete Schedule] [Previous], [Next]	Deletes the currently selected show schedule. Navigate show schedules by going forward and backward one at a time.
5	[Add to Schedule]	 (a) Select the playlist to be scheduled. The contents of the selected playlist will be displayed in the "Selected Playlist" window. (b) Select the time for the scheduled show. (c) To loop the show until a certain time, check 'Loop until' and select the time. (d) If the schedule is to be repeated every day or week, check 'Set recurrence rules'. (e) Press the 'Add' button. A dialog will pop up for specifying the recurrence rules if it was checked.





Figure 6 Configuration [General].

1	[Use startup / shutdown password]	There are 3 levels of users on the system - User, Technician, and Maintenance. If this option is checked, the system will start up with a password dialog and the user will have to authenticate themselves as one of the above 3 users to start using or shut down the system.
2	[Playlist menu password protected]	If this option is checked, the User level will be denied the ability to edit or create any playlists. Only Maintenance and Technician level users will be able to create and edit playlists.
3	[Skip non-playable composition playlist]	With this option checked any non-playable CPL within a Show playlist will simply be skipped, a message will appear on the SMS screen indicating that a CPL has been missed, however playback will continue.
4	[Reset TimeCode at end of clip]	If the 'Reset TimeCode at end of clip' option is selected, the timecode will reset to zero [0:0:0:0] whenever a playback ends or stops. The Timecode Display will reset to zero [0:0:0:0] while the Duration and Remaining time will reset to 00 hr 00 min 00 sec. The Slider Bar will return to its starting point at the extreme left.
		If the 'Reset TimeCode at end of clip' option is not selected, the system will retain the timecode at the point in which playback ends or stops. The Slider Bar will remain at where the playback ends or stops.
5	[Skip checking assets during ingest]	With this option checked the Digital Cinema Package assets will not be checked for their integrity, this option will reduce ingestion time but decrease the reliability of the ingestion.
6	[Subtitle Overlay]	[Subtitle Overlay] option. [Subtitle Overlay] is supported for Series 2 projectors for 2D JPEG2000 content. For more information, please refer to Section 2.8.2. Subtitle Overlay.
7	[Subtitle Delay]	This option provides the ability to delay the on screen subtitles, the delay is set in number of frames.
8	[Font Size]	'Font Size' option. For changing the size of the font on the screen.
9	[ASI Packet]	This option is provided to select the size of the packets (204 or 188 bytes) on the incoming ASI signal.
10	[Date Format]	'Date Format' option. For changing the displayed format of the date.
11	[Language]	'Language' option. For changing the user interface language.
12	[Change User Password]	[Change User Password] button. For changing the User Password. When [Change User Password] is pressed, 3 prompts will appear. The first prompt is for the user to enter the old password, the second prompt is for the user to enter the new password, and the third prompt is for the system to verify the new password.

13	[Change Technician Password]	[Change Technician Password] button. For changing the Technician Password. When [Change Technician Password] is pressed, 3 prompts will appear. The first prompt is for the user to enter the old password, the second prompt is for the user to enter the new password and the third prompt is for the system to verify the new password.
14	[Change Maintenance Password]	[Change Maintenance Password] button. For changing the Maintenance Password. When [Change Maintenance Password] is pressed, 3 prompts will appear. The first prompt is for the user to enter the old password, the second prompt is for the user to enter the new password and the third prompt is for the system to verify the new password.
15	[SNMP Setup]	[SNMP Setup] button. For accessing the SNMP Configuration Interface (see Section 2.3.5).
16	[Automation]	[Automation] button. This will bring up the automation configuration user interface used to integrate the IMB with external devices such as projectors and automation controllers (see Section 2.3.6).
17	[IMB]	[IMB] button. After connecting to the IMB the window will display the IMB version information as well as check the Marriage and Service Door status on the projector. For IMB marriage please reference the SX-3000 Installation manual as process will depend on projector manufacturer and software version.

2.3.4.2. CineCanvas

Enable Projector C			🔽 Use R	PL for SMPTE	Subtitle	
Projector 1 TI IP:	192.168 0.215		Check	Network Timeo	ut: 4	0 sec
🔲 Projektor 2 ThiPt	10.10.10.1		Check	^o rojector blank	time: 2	00 ms
Enable Network [me Lode transmissi	00				
Receiver IP:	192.168.0.123		Trans	mission Interv	al: 10	sec
Receiver IP: -Video Output	192.168.0.123		Trans	mission Interv	al: 10	sec
Receiver IP:	192.168.0.123	anD GhoatBu	Trans	Enable De	al: 10	sec
Receiver IP: Video Outout Resolution Native General CineCanvas	192.168.0.123		Trans	mission Interv	al: 10	sec

Figure 7 Configuration [CineCanvas].

1	[Use RPL for SMPTE Subtitle] [Network Timeout] [Projector blank time]	Send a SMPTE-compatible Resource Presentation List (RPL) instead of an Interop-compatible Subtitle Presentation List to the projector for Cinecanvas subtitles. This is only enabled when SMPTE subtitles are available for the CPL. Timeout in seconds for communication with the projector. Select the blank time of the projector during change of PCF or format. This is to prevent noise when the PCF or format is changed.
2	[Enable Network Time Code Transmission] [Receiver IP] [Transmission Interval]	Check this to activate transmission of playback time-code over UDP. Enter the IP of the receiver of time-code transmission of UDP. Indicates the time interval between transmissions.
3	[Resolution]	Allows playback of mixed 2K and 4K content at a constant resolution. Note: This feature will only affects video, and will not automatically scale PNG subtitles to the target resolution.

-Modem Dialup	Se	ver Information			
Dialin Server		erial no : #A07457:0 S : OS-SX3K-1.0.0 nftware ver : 9.00-build85	1. de la		
Local Diatup	C	apabilities : MPEG2 MXF Interop DCP RealD EQ Live streaming playback		•	<u> </u>
Source Disk for Upgrade	USB Dis				1
General CineCanvas Assista	ince Audio	Caption Streaming	3 Sync	IMB Netwo	
Maintenance	ок		Cancel		

2.3.4.3. Assistance

Figure 8 Assistance menu.

1	[USB Disk]	Press to perform software upgrades from USB Disk.
2	[Server Information]	Displays serial number, OS version, software version and video capabilities of the IMB.

3

2.3.4.4. Audio Option

Audio (Offset (in Frame:	s) -		Audio Of	fset (in m	s) 0	•	
-Audio Ou	tput							
En	able LTC Outpu	it On Channel	15/16					
			Audia	bonnel Me	uning	1		
			Audio C	mannerMa	pping			
						J		
-Audio Ou	tout Sampling F	L.						
-Audio Ou	tput Sampling F	Rate		None		J 		
-Audio Ou	tput Sampling F KHZ	Cate		None	8	J 		
Audio Ou	tput Sampling F KHZ (Rate		None	2	J 		
-Audio Ou 484 General	tput Sampling F (HZ (CineCanvas	Rate	Audio	None	Caption	Streaming	Sync	IMB Netw

Figure 9 Audio option.

1	[Audio Offset]	Specify the audio delay to make the video and audio in sync. '+x' will move the audio x frames forward such that the audio comes earlier than before. '-x' will delay the audio by x frames such that the audio comes later than before.
2	[Audio Output]	Enable Linear Time Code (LTC) output on audio channels 15 and 16.
3	[Audio Channel Mapping]	Use the audio channel mapping interface to map content audio channels to different audio output channels.
4	[Audio Output Sampling Rate]	Change audio output sampling rate. Output audio sampling rate can be fixed at 48kHz or 96kHz for all content, or it can match the content's audio sampling rate (option 'None'). If the output sampling rate is set to a fixed value (48kHz or 96kHz), content audio is re-sampled if it does not match the output sampling rate.

2.3.4.5. Closed Captions Option

Rear Window Ca	ption Device				
USL Closed Cap	tion Device vice ng time: 120 sec				
General CineCa	anvas Assistance	Audio	Caption	Sync	IMB Netwo

Figure 10 Closed Captions option.

1	[Enable Device]	Enable communication with a closed caption device that supports SMPTE 430-10 (USL CCE-100, etc).
	[Maximum waiting time]	Specifies the maximum time to wait for the closed caption device to report it is ready, before starting playback.



2.3.4.6 IMB Network Tab

Figure 11 IMB Network Tab.

1	Specify the subnet for all IP addresses
2	Specify the IP address of the IMB. This is the IP address of the Security Manager.
3	This is the main IP address of the SX-3000. The SMS user interface can be reached at this IP address using VNC.
4	Specify the network gateway for the SX-3000.
5	Specify a secondary IP address and netmask for the SX-3000. This can be used to connect to a content management network.

IMB Network Settings Change: Current server eth0 IP: 192.168.0.117 Current IMB IP: 192.168.0.120 Current SOM IP: 192.168.0.117 Current SOM gateway: Current SOM IP #2: 192.168.0.117 Target server eth0 IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM JP: 192.168.0.117 Target SOM gateway: Target SOM JP #2: 192.168.1.117	● DSR 型
IMB Network Settings Change: Current server eth0 IP: 192.168.0.117 Current IMB IP: 192.168.0.120 Current SOM IP: 192.168.0.117 Current SOM gateway: Current SOM IP #2: 192.168.0.117 Target server eth0 IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	
Current server eth0 IP: 192.168.0.117 Current IMB IP: 192.168.0.120 Current SOM IP: 192.168.0.117 Current SOM gateway: Current SOM IP #2: 192.168.0.117 Target server eth0 IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	IMB Network Settings Change:
Current IMB IP: 192.168.0.120 Current SOM IP: 192.168.0.117 Current SOM gateway: Current SOM IP #2: 192.168.1.117 Target server etho IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Current server eth0 IP: 192.168.0.117
Current SOM IP: 192.168.0.117 Current SOM gateway: Current SOM IP #2: 192.168.1.117 Target server etho IP: 192.168.0.117 Target IIMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Current IMB IP: 192.168.0.120
Current SOM gateway: Current SOM IP #2: 192.168.1.117 Target server eth0 IP: 192.168.0.117 Target IIMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Current SOM IP: 192.168.0.117
Current SOM IP #2: 192.168.1.117 Target server eth0 IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Current SOM gateway:
Target server eth0 IP: 192.168.0.117 Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Current SOM IP #2: 192.168.1.117
Target IMB IP: 192.168.0.120 Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Target server eth0 IP: 192.168.0.117
Target SOM IP: 192.168.0.117 Target SOM gateway: Target SOM IP #2: 192.168.1.117	Target IMB IP: 192.168.0.120
Target SOM gateway: Target SOM IP #2: 192.168.1.117	Target SOM IP: 192.168.0.117
Target SOM IP #2: 192.168.1.117	Target SOM gateway:
	Target SOM IP #2: 192.168.1.117
All IPs are valid.	All IPs are valid.
All IPs are valid.	All IPs are valid.

2.3.4.7 IMB Storage Tab

۲	Use NAS with follow	wing settings:		
D	ata IP Address:	192.168.0.202		
D	ata Share Name:	/volume1/data		
• 0	Use eSATA RAID (;	x3) Please click "OK" to re-	-mount your data drive.	
	Use eSATA RAID () Use eSATA (x1) (c	x3) Please click "OK" to re- connected to eSATA Port 1)	-mount your data drive.	
→ 0	Use eSATA RAID () Use eSATA (x1) (c	x3) Please click "OK" to re-	-mount your data drive.	

Figure 12 IMB StorageTab.

Specify a Network-Attached Storage System (NAS) which has an NFS share available to this SX- 3000 system for the use as data storage.
Configure the SX-3000 to use an attached eSATA RAID as data storage. This is to be used with PSD-3000.
Configure the SX-3000 to use a single externally attached eSATA hard disk as data storage. The external eSATA hard disk must be attached to eSATA Port 1 on the SX-3000.

2.3.5. SNMP Configuration

2.3.5.1. Introduction

The SNMP feature is an option on the SX-3000 that enables the use of SNMP to monitor IMB. The SNMP interface contains many useful SNMP traps and is easy to configure.

2.3.5.2. Accessing the SNMP Configuration Interface

Boot directly to the SMS interface. Press Configuration to switch the display from the SMS interface to the Configuration menu as seen in Figure 13.

Options	ord	Res	et TimeCoo	le at end of clip		
 Playlist menu password prote Skip non-playable composition 	ected on playlist	🗌 Skip	checking a	ssets during ing	jest	
Settings						
Subtitle Overlay	ASI Packet	204		Date Format	DD/MM/YYYY	$\mathbf{\Sigma}$
Subtitle Delay 0 frames	Font Size	12		Language	English	
Password				2 - 494		
Change User Password	Change Te	echnician	Password	Change Ma	intenance Pass	word
Setup						
SNMP Setup	A	utomation			IMB	
General CineCanvas Assistan	ce Audio	NOC	Caption	Streaming	Sync	
Aaintenance	ок			Car	ncel	

Figure 13 Configuration [General]

On the Configuration menu, select SNMP Setup. A new window appears as seen in Figure 14.

1

10.128.	1.16	Trap Sen	ding Interva	al (secs) 6	0 +		
		✓ Syste	m UpTime	Threshold	(days) 5	•	
		SNMF	Agent Sta	t			
		SNMF	Agent Sto	þ			
		\geq					
-	• –						
_ Enabl	e SNMP Service						
Conoral	Svetem Info	System setting	Encrypt	Storage	Video Card	PCI	Ser



ок

Cancel

2	On the SNMP Configuration menu, there are several tabs along the bottom of the screen. The General option (currently being shown in above), System Info option, System Setting option, Encrypt option, Storage option, Video Card option, PCI option and Sensors option.

2 —

2.3.5.3. Understanding the SNMP Configuration Interface

	SNMP Manager IP General Settings	
	10.128.1.16 Trap Sending Interval (secs) 60	<u> </u>
1	System UpTime Threshold (days) 5	—3
	SNMP Agent Start	— 4
	SNMP Agent Stop	— 5
6 —	Enable SNMP Service	
	General System Info System setting Encrypt Storage Video Card PCI Ser	
	OK Cancel	

2.3.5.3.1. General

Figure 15 SNMP Configuration [General Settings].

1	For SNMP Manager IP Address, indicate the IP address of the SNMP Manager where traps are to be sent by typing in the IP Address, press the + or - button to insert multiple SNMP addresses.
2	For Trap Sending Interval, indicate the time interval in seconds after which a trap should be resent to the SNMP Manager. The trap will continue to be resent only as long as the error condition exists.
3	For System UpTime Threshold (days), indicate the threshold time in days. NOTE: When Trap is On, a trap will be sent if the System UpTime exceeds the threshold value.
4	Activate the Trap by checking the small box opposite SNMP Agent Start. NOTE: When Trap is On, a trap is sent if the SNMP Agent is started. Deactivate the Trap by un-checking the small box next to SNMP Agent Start.
5	Activate the Trap by checking the small box opposite SNMP Agent Stop. NOTE: When Trap is On, a trap is sent if the SNMP Agent is stopped. Deactivate the Trap by un-checking the small box next to SNMP Agent Stop.
6	Check on the small box to enable SNMP Service.

2.3.5.3.2. Storage





1	On the SNMP Configuration menu, select Storage. A new window opens as seen in Figure 16 above.
2	Activate the Trap by checking the small box opposite the corresponding storage device. NOTE: When the Trap is On, a trap will be sent to the SNMP Manager if the system cannot detect the specified device.
3	Set the desired threshold temperature for respective storage device by using the [▲] and [▼] buttons. Activate the Trap by checking the small box opposite the corresponding storage device. NOTE: When the Trap is On, a trap will be sent to the SNMP Manager when the threshold temperature is reached.
4	Activate the Trap by checking the small box opposite RAID Device. NOTE: When the Trap is On, a trap will be sent if the RAID Device is missing or degraded.
5	Activate the Trap by checking the small box opposite Mount Data Storage. NOTE: When the Trap is On, a trap will be sent if the data storage is not mounted on the system.
6	Set the threshold mount capacity of the mount data storage by typing in the field or using the on-screen keyboard . Activate the Trap by checking the small box. NOTE: When the Trap is On, a trap will be sent to the SNMP Manager if the mount capacity exceeds the threshold value.

2.3.5.3.3. Video Card



Figure 17 SNMP Configuration [Video Card Settings].

1	On the SNMP Configuration menu, select Video Card. A new window opens as seen in Figure 17 above.
2	Activate the Trap by checking the small box opposite Video Card Driver JPEG2000.
	NOTE: When the Trap is On, a trap is sent to the SNMP Manager when the video card driver is not loaded.

2.3.5.3.4. PCI

|--|--|

Figure 18 SNMP Configuration [PCI / RAID].

1	On the SNMP Configuration menu, select PCI. A new window opens as seen in Figure 18 above.
2	Activate the Trap by checking the small box opposite the corresponding PCI Device.
	NOTE: When the Trap is On, a trap is sent when the corresponding PCI device is missing.

2.3.5.3.5. Sensors

	System Te	mperature Thresh	old (C) 6	0		
•	CPU Fan S	peed Threshold (r	rpm) 1	300		
1						
						1

Figure 19 SNMP Configuration [Motherboard].

1	On the SNMP Configuration menu, select Sensors. A new window opens as seen in Figure 19 above.
2	Set the threshold temperature required for the system sensors by typing in the field or using an on-screen keyboard . Activate the Trap by checking the small box opposite System Temperature Threshold. NOTE: When the Trap is On, a trap is sent if the system temperature exceeds the maximum threshold temperature.
3	Set the threshold CPU fan speed (rpm – revolutions per minute) by typing on the field or using an on-screen keyboard . Activate the Trap by checking the small box opposite CPU Fan Speed Threshold. NOTE: When the Trap is On, a trap is sent if the CPU fan speed exceeds the threshold value.
1

2

Cancel

oĸ

2.3.5.3.6. Restart/Save/Cancel							
SNMP Configuration - Sensors Settings							
System Temperature Threshold (C)	60						
☑ CPU Fan Speed Threshold (rpm)	1300						

Figure 20 Pop-up window for restarting SNMP service.

al System Info System setting Encrypt Storage Video Card PCI Sensors



2.3.5.3.7. Ethernet

Ethe	ernet Settings							
	✓ Trap etł	10						
						_	_	
1 Info	System setting	Encrypt	Storage	Video Card	PCI Sens	ors	thernet	
					ок		Cancel	

Figure 21 Ethernet settings.

1 Enables sending an SNMP trap if the system detects that the selected network interface is down.

2.3.6. Automation

Please refer to Figure 6 to transit form Configuration to Automation.



Figure 22 Automation flowchart.

February 14, 2013

DEVICES

Automation Device Setup

It should be noted that automation will only be executed within a playlist as long as that playlist is playing. If playback stops or the Stop button is pushed automation will not run. For Series 2 projectors please refer to Section 2.8.

					^	
evice Name	System		Add	Edit	Delete	
evice Type			Search de	vices on n	etwork	┣┻┥
/stem Settings—	//					
tatus		$\overline{\nabla}$				
	1					
ana Lanuta I	Douison Onting					
	Devices Options					
D·C	1		Save		Close	18
		2 1				
	E !	22 Daviasa m	0011			

On the Automation menu, press Devices. A new window opens as seen in Figure 23. In the Devices menu, the System is the default device name. The System device is the IMB from which all received commands will be forwarded to the sub-systems in the IMB. (continued on next page)

Name PROJECTOR			(
Туре			
PROJECTOR		 	

Figure 24 The device configuration window.



5	Under Projector Settings,					
	(a) When the selected device type is PROJECTOR, select the model of the projector you want to use from a dropdown list.					
	BARCO BARCO CHRISTIE NEC					
	When the selected device type is JNIOR_IO, only one model of the Ethernet I/O controller is available from the dropdown list.					
	JNIOR-A310					
	(b) Set the parameters such as IP address, Port and Status of the selected device,					
	address, Port, Login name and Password.					
	(c) The status of the device can be Enabled or Disabled. Select from the dropdown list as seen below.					
	Status Enabled Disabled Enabled					
	NOTE: This is the only option available for Projector Settings when System or GPIO is selected.					
6	To search click the Search Devices on Network button. This will scan the network for available devices. Once discovered, to select the device and press Add.					



Figure 25 Inputs menu.



ACTIONS

-		Log Neques	<u> </u>	Add Delete	Euit
1	System	Action	LoaRequest		$\overline{\nabla}$
2	IMBGPIO	 ∑ Coil ∑		0 1 2 3 4	5 6 7
	System Timer IMBGPIO				
	juior				_
	Add De	elete		Schedule	Execute

Figure 26 Actions menu.

9	Select Actions on the Automation menu. On the Actions menu, press Add, located at the top portion of the screen. An on-screen keyboard opens. Type in your desired label name and press Enter.							
10	Press Add, located at the lower port Label. Then select a device from the to the list from the Devices menu.	ion the screen, to append an action to the selected Event e dropdown list as seen below. New devices can be added Device System IMBGPIO System Timer IMBGPIO NEC 1400 juior						



	If Desistantic celested, multiple size can be celested under the Dire To Lies entire
	The number of pins selected will be the number of pins that can be used for output
	under the Value option. You can select more than one pin in the Value column
	based on the selected pins in the Pins To Use option.
	Device Output Type Pins To Use Value
	1 GPIO V Register V 0 1 2 3 4 3 6 7 1 2 3 4 0 0
	If Coil is selected, only one pin can be selected at a time. The Pins To Use option
	is disabled. The pins can be selected directly under the Value option.
	Device Output Type Pins To Use Value
	1 GPIO Coil Coil 0 1 2 3 4 5 6 7
11	To edit an existing label's name, select the label from the dropdown list and then press Edit. An
	on-screen keyboard opens. Edit the existing label name and press Enter. To delete an existing
12	Press Save after completing the settings to return to the Playlist menu.
13	By pressing the Execute button you can test if an automation command is working correctly.
	This button will trigger the event selected.
14	Automation for events can be scheduled. To access the automation schedule select the
	[Schedule] button. This will bring you to a setup screen.
	Automation Schedules
	Date and Time Repeat Label
	2 16:38:05 ➡ daily ∠ FIRE_ALARM ∠
	Add Delete
	G•D•C Cancel Accept Changes
	To add an Automation Schedule select the [Add] button. Select the repeat interval, options are
	either daily or a single occurrence.

2.4. Show Playlist

2.4.1. Create a Show Playlist

2.4.1.1. Access to Playlist Menu

9:03 pm ^{05 Feb 2013} Screen 1: SM Connected Show: JPEG2K 2D					
►	Ш			-	
	,,			Í	
DS-SX3K-1.0.0		hh mr	n ss ff frame#]	
Serial #A07457:0] [DSR S	Server 9.00-build85]	Duration - 00 Remaining - 0	hr 02 min 10 sec 0 hr 02 min 10 sec		
Alert	Description				
			Standalo	one	

Figure 27 Creating a show playlist.

1	On the SMS interface, press [] to open a Playlist menu for creating playlists as seen in Figure 28
	below in Section 2.4.1.2. Creating a Playlist.



2.4.1.2. Creating a Playlist

1



Figure 28 Playlist menu.

1	On the Playlist menu, all compositions stored are listed in the Content column on the left. The content is shown in alphabetical order grouped by type [Trailer, Feature, etc.]. Available automation cues are listed under 'cues'.
2	Select the composition to add to the playlist and press [+]. Repeat the same step to add other compositions (e.g. trailers or advertisements) to the playlist.
3	Compositions in the playlist are shown in the Playlist column on the right. Use [1 (move up) and [] (move down) to change the order of compositions in the playlist. The order of the compositions in the playlist may also be changed by dragging their icons in the timeline display.
4	You can remove compositions from the Playlist column by selecting the clip that you want to remove and pressing [-].

Copy Show

3

00:02:29

2.4.1.3. Editing Cues



Figure 29 Playlist menu.

1 To edit a cue of a composition on the playlist, select the desired composition from the Playlist menu and press Edit Cue. A new window displaying the Edit Cue menu opens as seen in Figure 30.

	Set Metadata Points	~	-	
	Please key in time code (max: (00:00:21[23])	Please select automation cue labels:	
2 —	Time 00:00:00[00]	Marker		L I
6 —	Add Cue Delete Cue	↓ −7		
	Time Cod Automation Cue Label	1	Description	
5 —	Start Cue	Blank time	0 second	
	G·D·C	ок	Cancel	8
		Figure 30 Edit C	ue menu.	

2	To specify a time code for the activation of the cue, press and a time code entry window will open. Use the [▲] and [▼] buttons enter the desired time code. Press OK to confirm your selection.
	TimeCode Hour Minute Second Frame Image: Object of the second sec
	To specify a frame for the activation of the cue, press the Time button once and it will toggle to display the Frame button as shown below.
	Frame 0

Press 🕅 and a frame number entry window will open. Key in the desired frame number and press Enter. Enter the frame number (max 2545) 0 9 Del Enter G·D·C 3 Press Marker to view any markers present in the composition. If the composition does not contain any markers, a small window pops up to indicate that there are no markers present. Warning No marker found i OK To add an automation cue label, select the desired automation cue label from the dropdown 4 list as seen below. LIGHTS FIRE_ALARM CURTAINS LIGHTS

	<none> FIRE_ALARM</none>	
	LIGHTS	
To specify the bla	ank time, press 🕅 and a blank time entry window will	open. Key
desired blank tim	ie and press Enter.	
16		
	Enter blank time duration(seconds):	
	7 Second	
	7 8 9	
	4 5 6	
	Enter	
G·D·C	Enter	

6	Press Add Cue to add the cue to the composition. The cue's details will then be displayed in the cue window as seen below
	Time Code Automation Circl abel Description
	Concorded diapio
	NOTE: You can select a cue from the cue window at any time to edit its properties.
7	To delete a cue from the composition, select the cue from the cue window and press Delete Cue.
8	To save the changes and exit, press OK.
	To exit without saving any changes, press Cancel.



1	Press Save Show to save the playlist. This ensures any changes to playlist will not be lost.
2	Press Load Show to Play and return to the Main menu.

2.5. Show Schedule

2.5.1. Schedule a Show

9:03 pm 05 Feb 2013	Scree Show	en 1: SM Connect w: JPEG2K	ed 2D	â
►	1	0		
] •	2
DS-SX3K-1.0.0			hh mm	ss ff frame#
[Serial #A07457:0] [D	SR Server 9.00-buil	d85]	Duration - 00 I Remaining - 00	nr 02 min 10 sec hr 02 min 10 sec
Alert		Description		
	1			
Control Panel	Scheduler	Configuration	Shutdown	SX-3000 Standalo
	Figure 3	2 SMS Interface [Sc	heduler].	
1 On the Main	menu, press Schedu	ller. A new window ope	ens as seen in Fiaur	e 33.

		heduler		Select Date	26	6/09/2	012			26 Sep 16:49	20
0	2	4	6	8	10	12	14	16	18	20	

Date / Time:	26/09/2012	16:49:0	00	
				51_PinkNoise_GDC-TEST-Material_2010
Loop	26/09/2012	17.00.0		AV_SUB_TEST
- Unu	LOIDOILDIL	11.00.0		Stem_R2_J2K_Enc
Set recu	rrence rules			Stem_R2_J2K_Enc
				AV_SUB_TEST
Shows:	2	∇	Add	51_PinkNoise_GDC-TEST-Material_2010

Figure 33 Scheduler menu.

2	Go to the bottom section named Add to Schedule. At Date / Time, indicate the date and time to schedule the show.
	(a) The date format is DD/MM/YYYY and the time format is HH:MM:SS. To select the day, click on DD and adjust to the required day using [▲] and [▼]. Repeat the same for MM, YYYY, HH, MM and SS.
	Date / Time: 18/02/2009 🔷 11:08:00 🗬
	(b) At Shows, select the playlist for the show. Press [★] to view all the playlists already saved in the IMB. Select the required playlist.
	Shows: gdctest 🔤 Add

 \mathbb{D}

		Selected Playlist:
		TI DLP Logo STEM Hollywood Sounder PCM Mastered By DSR
(d) If you war and time	nt the playlist to to end the loop.	o loop for a period of time, check Loop Until and indicate th
	Until	19/02/2009 🔷 13:00:00 🗬
(e) Press Ad	d after the sche	edule date/time is fixed and playlist is selected.
	Shows:	gdctest Z Add



Figure 34 Viewing schedule information.



	Select rules for the recurrence	e of the schedule created for V	Ved 26 Sep 2012
	-Recurrence rules-		
	Repeat once on	27/09/2012	
5	C Repeat on the next	1 consecutive	Monday 📃
	⊖ Repeat on the next	1 consecutive day(s)	
	-Schedule recurrence dates -		
	Thu 27 Sep 2012		
6 —		Apply recurrence rules	Return to the scheduler

Figure 35 Replicating show schedule.

5	A new window opens as seen in Figure 35. Select the required recurrence option. Only one option can be selected. Upon selection, all effective recurring dates will be listed in the Schedule recurrence dates column at the bottom.
6	Press Apply recurrence rules to schedule the recurrence dates. If no option is selected, press Return to the scheduler to return to Scheduler menu. When on Scheduler menu, press Back to return to the Main menu.

2.6. Synchronizing Shows

2.6.1. Synchronizing Clips for 3D (MPEG2)



Figure 36 Synchronizing the clips.

1 On the Playlist menu, select the clip from the Contents you want to associate with another clip for 3D showing and then press 3D Sync. A small window pops out as seen below.



2.7. IMB Configuration

2.7.1. CineCanvas[™] and CineLink[™] Configuration

Connect a network cable from the Ethernet 2 port of the IMB to the LAN port of the projector that will accept CineCanvas[™] communication. Make sure the IMB and projector are set on the same subnet network. For example, if the projector is set to 10.10.10.10 and the IMB is set to 192.168.0.200, either the IMB has to change its IP to 10.10.10.xxx or the projector has to change its IP to 192.168.0.xxx for them to be on the same network.

*assuming default subnet of 255.255.255.0

9:03 pm 05 Feb 2013	Screen 1 Show:	: SM Connected	D	i â
►	н			
OS-SX3K-1.0.0			hh mn	n ss ff frame#
[Serial #A07457:0] [DS	R Server 9.00-build85]		Duration - 00 Remaining - 00	hr 02 min 10 sec hr 02 min 10 sec
Alert	Des	scription		
Control Panel	Scheduler C	onfiguration	Shutdown	SX-3000 Standalone

Figure 37 SMS Interface [Configuration].



Setup					
Enable Atojector Communication			Use RPL for SMPTE Subtitle		
Projector 1 TI IP: 192.158 0.215		Check	Network Timeout:	40 sec	
🔲 Projector 2 Th P	10.10.30.1	Check	Projector blank time:	200 ms	
Network Time Code					
Enable Network	Time Code Transmissi	on			
Receiver IP:	192.168.0.123	Trar	smission Interval:	0 sec	
Video Outout	-				
MAD DURAN A			Enable:Dolby.30	Garrechon	
- 10 12 ⁻ 2012	re 🗵 Impe		Dolby 3D Con	fouration :	
Resolution Nativ			200	13	
Resolution Nativ					
eneral CineCanv	as Assistance Au	dio	Streaming	IMB Network	
eneral CineCanv	as Assistance Au	dio NGC Caption	Streaming Sync	MB Network	

Figure 38 Setting up Cinecanvas subtitling option.

2	A new window for the Configuration menu opens as seen in Figure 36. Press CineCanvas to open the CineCanvas menu.
3	 Use the [▲] [▼] buttons to adjust the Network Time out and Projector blank time. (a) At Network Timeout, indicate how long the IMB will wait for the projector to respond to accept the subtitles before popping up an error message. Error can occur due to: Incorrect configurations on the IMB and projector. Make sure the IMB and projector are set on the same LAN network. Loose network cable connection between the IMB and projector. (b) At Projector blank time, indicate how long the projector should be blanked during change of PCF or format before playback should commence. This is needed because the projector shows some noise when the PCF or format is changed.
4	Tick the Enable Network Time Code Transmission option to enable network transmission. At Receiver IP, use the on-screen keyboard to type in the Network IP address. Receiver IP: 192.168.0.123 At Transmission Interval, use the [▲] [▼] buttons to adjust the time of transmission interval. Transmission Interval: 10 sec
5	Once set, press [OK] to apply settings and return to Main menu.

2.7.2. Dolby 3D Setup

Once you have obtained a license from GDC, you will be given an update that enables Dolby 3D configuration. Dolby 3D setup requires that you have a PC that can be connected to the IMB network, so that you can access a web interface on the IMB. The Dolby colour test patterns must be ingested to the IMB. Please contact your regional GDC support for the Dolby colour test patterns.

	Technician Access	
	Technician Access Maintenance Access	
	7 8 9	
	4 5 6	
	1 2 3	
	0 Del	
	Enter	
G·D·C		

ootap						
Enable Projector Communication			Use RPL for SMPTE Subtitle			
Projector 1 TI IP:	192.168.0.245		Check	Network Timeo	ut: 40) sec
Projector 2.70 iP	10.20.30.1		Check	Projector blank	time: 20	00 ms
Network Time Code	<u>)</u>					
Enable Network	Time Code Transm	nission				
Enable Network	Time Code Transm	23	Tran	smission Interv	al: 10 s	sec
Enable Network	Time Code Transm	23	Tran:	smission Interv	al: 10 s	ec 🛓
Enable Network Receiver IP: Video Output	Time Code Transm 192.168.0.12	23	Tran	smission Interv	al: 10 s olby 3D C	sec
Enable Network Receiver IP: Video Output Resolution	Time Code Transm 192.168.0.12	11551on 23 e FrealD ChoolB Import RealD Co	Trans	smission Interva	al: 10 s olby 3D C 3D Configu	ec
Enable Network Receiver IP: Video Output Resolution Native reneral CineCanva	Time Code Transm 192.168.0.12 e ye as Assistance	Audio	Caption	mission Interv Enable Do Dolby 3	al: 10 s olby 3D C 3D Configu	ec

Figure 39 Dolby 3D setup.

2	A new window for Configuration menu opens as seen in Figure 39 . Press CineCanvas to open the CineCanvas menu.
3	Click Dolby 3D Configuration to access the DFC IP address configuration. Enter the IP address of the DFC and check the DFC IP address box. If there is no DFC, make sure that the DFC IP address box is NOT checked.
4	Once you have setup the DFC IP address, check the box Enable Dolby 3D Correction.
5	Setup the Dolby 3D filter wheel, Dolby filter controller and glasses; check that the IMB is able to access the projector and the filter controller via the network.
6	Connect your laptop, open a browser and point to http://server-ip/cgi-bin/dolby3dConfig. From here you will follow the wizard to setup color correction for the GDC IMB. The DFC Controller will automatically turn on and off whenever a 3D playlist is being played.
	**server-ip refers to the SOM IP address configured in SMS Configuration IMB Network.

2.8. Series 2 DLP CINEMA[®] Projector Setup

There are several points to be noted when setting up the GDC IMB with a Series 2 DLP Cinema[®] projector. SMS version 9.0 supports Series 2 projectors, the section below details additional steps required for full Series 2 compatibility. If any fields are left blank the default values are assumed. Login and password fields only need to be entered if the user has changed these parameters on the projector.

2.8.1. Automation Setup

1

On the Automation menu, press Devices. This section will describe individual projector setup. An example Barco setup is seen in **Figure 40**.

Device Name	PROJECTOR		Edit	elete
Device Type	PROJECTOR	S	earch devices on network	
-Projector Settings-				
Model	BARCO	Status	Enabled	$\overline{\Sigma}$
IP Address	192.168.100.2	Series 2	,	
Port	43728			
Login				
Password				
. <u>t</u>				
Actions Inputs	Devices Options			
			-1/4	





2.8.2. Subtitle Overlay

2.8.2.1. Subtitle Overlay Setup

Subtitle Overlay is supported for Series 2 projectors for 2D JPEG2000 content.					
To setup Subtitle Overlay go to SMS -> Configuration -> Maintenance Access -> General. Under Settings there is a box titled Subtitle Overlay. You can also enter a Subtitle Delay in number of frames, entering a negative number will advance the subtitles by that number of frames.					
Settings					
Subtitle Overlay ASI Packet 204 Date Format DD/MM/YYYY					
Subtitle Delay 0 frames Font Size 12 Language English					

2.8.2.2. Subtitle Language Selection

9:03 pm 05 Feb 2013	Screen 1: SM Co Show: JPEG	nnected 2K 2D	i â
	Ш		
	,		
DS-SX3K-1.0.0		hh mm	ss ff frame#
Serial #A07457:0] [DSR Se	rver 9.00-build85]	Duration - 00 Remaining - 00	hr 02 min 10 sec hr 02 min 10 sec
Alert	Description		
1			
Control Panel Sc	heduler Configuration	on Shutdown	SX-3000 Standalou

Figure 41 SMS Interface [Control Panel]



Serial No : A07457 OS Version : OS-SX3K-1.0.0 Media block driver version: Forge Media block firmware: 6.1 Media Block Temperature : 51 C SMS Version : 9.00-build80 Last update : upgrade-SOM-step3-build80-20130125.tgz.enc Network Storage (Last updated: Tue Jan 29 22:20:06 2013) eth0: 192.168.0.204/24 (up, 1000Mb/s) Usage: 1.8T of 2.0T Drive Temperatures: 23 C, 23 C, 23 C Drive status : OS-OK R1-OK R2-OK R3-Raid status: DegradedArray **Refresh status** Applications Extract logs & Automation Admin panel Manage Content SMS 2 Restart Shut Down

Figure 42 Control Panel Manu

From the Control Panel select Manage Content.

2
C	ontent	t Manager					3	Control	Panel		Exit	
Su	ımma	ry Inge	st Status	Schedule	Content	KDM	Subtitle	Source				
3	Selec	t Subtitle L	anguage						E	dit	_	5
		Content	Annotation	ı				Subtitle La	inguage			
	1	MONTE-0	ARLO_FTR-	17_F_EN-EN-	CCAP_US-P	G_51-EN	_2K_TCF	English	1		\Box	
	2	MONTE-C	ARLO_FTR-	18_F_EN-EN-(DCAP_US-PO	G_51-EN	_2K_TCF	English	1		\Box	
											- 1	
											- 1	
											- 1	
											- 1	
											- 1	

Figure 43 Editing the subtitle language.

3	Select the Subtitle tab to change the subtitle language.
4	When subtitle overlay is selected, the language for clips with subtitles can be configured in the Content Manager as seen in Figure 43 . Setting the correct language for subtitles will ensure that subtitles will be rendered properly for each clip.
5	Press Edit and enter the maintenance password to change the language for the displayed clips.

2. SMS

C	onten	t Manager					55	Control	I Panel	Exit	12
Su	ımma	ry Ingest	Status	Schedule	Content	KDM	Subtitle	Source			195
	Selec	t Subtitle Lang	uage						Read-only		
		Content Ann	otation					Subtitle La	anguage		
	1	MONTE-CAR	LO_FTR-1	7_F_EN-EN-	CCAP_US-P	G_51-EN	_2K_TCF	English	l	\sum	
	2	MONTE-CAR	LO_FTR-1	8_F_EN-EN-	DCAP_US-P	G_51-EN	_2K_TCF	Trad_(CN	\sum	
111.0		3						Defaul	t		
								Chines	e		
								Trad_0	CN		
								Korear	n		
								Japan	ese		
								English	า		
								Spanis	sh		
								Italian			
								Russia	In		
	-							E.	3		0 ==

Figure 44 Subtitle language options.

As shown in Figure 44, the following languages can be set for each clip:
Simplified Chinese
Traditional Chinese
• Korean
• Japanese
• English
• Spanish
• Italian
• Russian
The language setting can also be left as Default to automatically use the original language setting of the clip content.

Control Panel Exit 7 Subtitle Status Schedule Content KDM Source Select Subtitle Language Edit **Content Annotation** Subtitle Language MONTE-CARLO_FTR-17_F_EN-EN-CCAP_US-PG_51-EN_2K_TCF English MONTE-CARLO_FTR-18_F_EN-EN-OCAP_US-PG_51-EN_2K_TCF English

Figure 45 Returning to Control Panel.

Click the Control Panel button to return to the Control Panel.

Content Manager

1

2

Summary Ingest

2.8.3. CineCanvas[™] Support for Series 2 Projectors

CineCanvas[™] support for Series 2 projectors will be enabled automatically when the Subtitle Overlay checkbox is **unchecked**. The IMB will determine whether CineCanvas™ is supported on the Series 2 projector. If the projector is capable of supporting CineCanvas™, it will be automatically enabled for content with subtitles.

7

2.9. Shutdown/Restart Application

2.9.1. Shutdown or Restart

9:03 pm 05 Feb 2013	Screen 1: SM Co Show: JPEC	annected	i 🔒
►	н		
	,,		P2
DS-SX3K-1.0.0		hh n	nm ss ff frame#
Serial #A07457:0] [DSR Se	erver 9.00-build85]	Duration - 0 Remaining - 0	0 hr 02 min 10 sec 00 hr 02 min 10 sec
Alert	Description		
	1766	1	
Control Panel S	cheduler Configurat	on Shutdown	SX-3000 Standalou





3. CONTROL PANEL

3.1. About Control Panel

The Control Panel UI provides access to all the other menus used to configure and operate the SX-3000 IMB. To get to the Control Panel, press Control Panel on the Main menu as shown in **Figure 52**.

9:03 pm 05 Feb 2013	scre Shov	en 1: SM Conne w: JPEG2ł	cted C 2D	č	۵
►	П	6			
OS-5X3K-1.0.0				nm ss ff	frame#
[Serial #A07457:0] [DS	R Server 9.00-buil	d85]	Duration - 0 Remaining -	00 hr 02 min 1 00 hr 02 min 1	0 sec 10 sec
Alert		Description			
		9 <u>15</u>		_	
Control Panel	Scheduler	Configuration	Shutdown	SX-3000	Standalon IMB™

Figure 47 Control Panel menu.



3.2. Control Panel Menu

Figure 48 Control Panel menu.

Switch ON the IMB and allow it to boot up to prompt directly to the SMS interface. When the SMS interface is shown, press the Control Panel button and a new window for the Control Panel menu opens as shown in Figure 48. The Control Panel includes the Automation button, Admin panel button, Manage Content button, SMS button, Restart button, Shutdown button and a Refresh status button. System information including the serial number, OS version, SMS version, network and storage information can also be seen on the Control Panel UI.
NOTE: The Refresh status button is used to manually refresh the status of the hard disks in the external storage device. This button should not be pressed during playback to prevent disruption of playback.
The SMS software continues to run in the background when using the Control Panel. This allows access to other IMB functions when playback is in progress. It is recommended that these functions be used very sparingly to avoid unnecessary system load that can potentially affect playback performance.

3.3. Manual Automation Execution



Figure 49 Accessing Automation.

1	Automation labels and projector commands can now be executed from an interface on the
	Control Panel. Press Automation on the Control Panel to start the manual automation interface
	as shown in Figure 49.

3. CONTROL PANEL

	tion Cue Schedule			
abel : NE	C 4K IMB JPE	G2K 2D		
Device		ІО Туре	10	
NEC 140	00	macro	11	
		Execute		
Projector Qui	ick Setup			
Projector :	NEC 1400	IP : 19	2.168.0.106	
Primitive :	CLOSE_DOW	'SER 🛛	Send Projector Primitive	
Macro :	1	$\overline{\Sigma}$	Send Projector Macro	

Figure 50 Executing Automation.

2	A new window opens as seen in Figure 50 . Select an automation label to view the actions associated with the label. Press Execute to execute the automation label.
3	When a projector is configured for automation, projector primitives and macros can be triggered from this interface as well. Select the projector primitive or macro to be executed, and click the Send Projector Primitive or Send Projector Macro to send the command to the projector. Please refer to Section 2.3.6. Automation for instructions on how to configure automation labels, actions and devices.

3.4. Restarting the Control Panel





1 Press Restart to restart the Control Panel. The Control Panel will restart and display the SMS interface as seen in **Figure 52**.

9:03 pm 05 Feb 2013	Screen 1: SM Conne Show: JPEG2I	cted K 2D	8
	Ш		
	,,,,,,,,,	,	
OS-SX3K-1.0.0		hh mm	ss ff frame#
[Serial #A07457:0] [DSR S	erver 9.00-build85]	Duration - 00 h Remaining - 00 l	r 02 min 10 sec nr 02 min 10 sec
Alert	Description		
Control Panel S	cheduler Configuration	Shutdown	SX-3000 Standalone IMB™

	S	erial No : A07457		
OS Version : OS-	SX3K-1.0.0			
Media block drive Media block firmv	r version: Forge /are: 6.1			
Media Block Temp	oerature : 52 C			
SMS Version : 9.0	0-build80			
Last update : upgi	ade-SOM-step3-l	ouild80-20130125.tg	z.enc	
Storage		Netwo	rk	
(Last updated: ⁻ Usage: 1.8T of 2 Drive Temperatu Drive status : O	Are you sı down? All be stoppe	Are you sure you want to shut down? All current playback will be stopped		
			4	
Raid status: Una	Shutdown	Reboot	Cancel	
Raid status: Una	Shutdown	Reboot Applications	Cancel	
Raid status: Una Extract logs & configuration	Shutdown	Reboot Applications Automation	Cancel	Admin panel
Raid status: Una Extract logs & configuration Manage Content	Shutdown	Reboot Applications Automation System monitor	Cancel	Admin panel

3.5. Shutting Down the System

Figure 53 Shutting down the system.

1	Select Shutdown on the Control Panel menu.
2	A small window appears as seen in Figure 53 . Select Shutdown to continue shutdown of IMB, or Cancel to cancel shutdown of IMB. All current playback will be stopped upon shutdown of the system.
	WARNING: If current playback is still running in the background, it will be terminated once the IMB is shutdown. Please use with CAUTION .

4. CONTENT MANAGER

4.1. About the Content Manager

4.1.1. Introduction

The SX-3000 Content Manager allows the user to manage the contents of the IMB to:

1	Download content from a disk or source on the network.
2	Download keys [KDM's] required for playing back content from disk or source on the network.
3	Delete content that exists on the IMB.
4	Check that the content that is already on the IMB is fine and the files are complete and proper.

4.1.2. Accessing the Content Manager



Figure 54 Manage Content Button.

2

1	Press Control Panel on the Main menu.
2	Press Manage Content to go to the Content Manager main menu.
	NOTE: The Content Manager can run in the background and does NOT need to be exited.

4.2. Content Management





Figure 55 Ingesting a package or CPL from a source located in a specific directory in the network.

1	Select the source of data you want to ingest content from and click Open.
	Please refer to Section 4.4 Source Management to configure the source of data.
2	Browse the source and select the directory where the package is located. The list of packages in the directory will be displayed in the top right section of the screen.
3	Click View CPL to display the list of CPLs available in the packages. You can use this button to toggle between the package list and CPL list displayed in the top right section of the screen.
4	Click under the Transfer column to select the package or CPL you wish to download. A green check \checkmark indicates a selected package or CPL. You can select multiple packages or CPLs.
5	Information about the selected package or CPL, including the file size, is shown in the section below the package or CPL list.
6	Press Import to queue downloading of the package or CPL. (To bypass ingestion for direct playback you can press Live Play instead. Refer to Live Play below for more info.)
7	When done selecting the package(s), click the Close button.
	IMPORTANT: Always press Close after you are done starting the download of content. You can monitor the progress of ingest by pressing the Status button. Please refer to Section 4.2.4. Monitor Ingest Progress for more information about Status.
8	Live Play can be used instead of Import in order to bypass content ingestion and play directly back from network source. This is not supported through USB but can be used for direct playback through network source (provided the network source has sufficient bandwidth to stream the content).
	IMPORIANI: You should always use Import whenever possible.
9	When you press the Live Source button you can view all clips currently mounted and available through the Live Play feature. You can detach Live Play sources through this interface as well. You should always detach live play sources whenever you are done using them via Live Play.



4.2.2. Ingesting Content from USB Disk



1 Select USB drive from dropdown list and click Open. (Continued on next page)

Summary Inges 1. Pick a storage devices Source to ingest fro usb: ST31000524NS Source Package Browser 2 2. Pick one of its partition(s):	PL
Source to ingest fro Package Browser 2 2 2. Pick one of its partition(s):	PL
Package Browser 2 7 Transfer 2 2. Pick one of its partition(s): 1 1	?
/dev/sde1	
Jule (Select #	1
Size	
Cancel OK - 3	

Figure 57 Selecting the USB storage device and its partition





Figure 58 Ingesting KDM from a directory in the selected source.

1	Select the directory in the selected source where the KDM is located.
2	Shows the KDMs present in the selected directory that are valid for this IMB.
3	Click under the Transfer column to select the KDM you wish to download. A green check \checkmark indicates the selected KDM.
4	Shows the details of the selected KDM, including target, CPL, and date of validity.
5	Press Import to start the import of the KDM. The green check will change to Queued.
6	When done selecting the KDM, press Close to close the Package Browser.

SX-3000 Standalone Integrated Media Block™ User Manual

4.2.4.	Monitor	Ingest	Progress
--------	---------	--------	----------

	nt Manag	jer			17				Control Pan	el	Exit
Summa	ary 1	Ingest	Status	Schedule	Content	KDM	Source	1		addit.	
	Pack	age Anno	tation				Action	Status	ĺ	Progres	s
1	Stern	J2K_End	_T2K001 [10911831-bf9	f-4e3e-b3e2-4	45d00a0ef	8 Ingest	Finishe	d	100%	
2	A-TE/	AM_TLR-	B_S_EN-X	X_US-GB_51	_2K_TCF_200	091229_FK	Ingest	In Prog	ress	4%	
Task	is in pro	gress									
Task	is in pro	gress									
Task	is in pro	gress								_	
Task	is in pro	gress									
Task	is in pro	gress				_					
Task	is in pro	gress									

Figure 59 Monitoring the progress of download of the packages.

1	Select the Status option.
2	Shows the download status of the packages or CPLs. In this example, downloading of some packages or CPLs is incomplete.



4.2.5. Cancelling Ingest

Figure 60 Content Manager - Status







Figure 61 Deleting a downloaded package or CPL







Figure 62 Verifying the integrity of the files in the package(s) or CPL(s).



Pr	ress Verify to check i	f all the required files are present in the selected package(s) or CPI (s).
(2)) If Now is selected	the nackade will be verified immediately as seen below
(a		, the package will be verned inimediately as seen below.
	Verify CPL: SKYFALL_TLR/	A-REV_NOV_S_EN-YUE_HK_51_2K_SPE_20120523_DLA_OV
		45%
		Cancel
(b) If Schedule is sel	ected, you need to assign a name and schedule the time and date whe
	to verify the packa	age(s) or CPL(s) in a new window as seen below.
	Schedule details	
	Schedule name:	Content Verify
	Frequency:	Once only Verify
	Time:	07/08/2012
	Packages :	
	1 MONTE-CARLO	
		and the set of the set of the set
	- 1	
		Cancel
(0	c) You can select the	e frequency of verification.
		Once only 🗸
		Once only Once every day
		Once every week
		Once every month

Conter	nt Manager		N				Contro	Panel	Exit	
umma	ary Ingest	Status	Schedule	Content	KDM Sour	roe	Sa.			
	Content Ann	otation				Issue Date	Size	s	elect?	
296	UW4_TRL-2-	2D_S_EN-X	X_US-GB_5	1_2K_SPE_20	111026_DLA_OV	12-22-2011	1.47 GB			
297	UW4_TRL-2-	3D_S_EN-X	X_US-GB_5	1_2K_SPE_20	111030_DLA_OV	_i 12-22-2011	2.69 GB			
298	WALKER-45	S_ADV_S_Y	UE-YUE_20	2K_SS_2012	0127_GDC_OV	01-27-2012	409.28 MB			
299	WOLVERINE	_TLR-A_S_I	EN-XX_US-G	B_51_2K_TC		800210.012	3.16 GB			
300	WRATH-TITA	NS_FTR-3D	F_EN-QMT	INT_51_2K_V	i i Nos	stray files 012	104.85 GB	~	(
301	WuXia_FTR-	HK-CANT_S	YUE-QMT-E	N_51-YUE_28		011	141.82 GB		6 	
302	中文PKL	4			ОК	010	247.27 MB	ŝ		
V	iew CPL	Check 5	Stray	Quick Verify	Now		Verity	Delete	Select.	
	Asset Type	2750 5470 /	E 0707 -4					5029		- (*
-	Picture [08od37b8-b170-4oe5-8797-ef51f1dfb9d4] 18.42 GB									
2	Picture [09612ee4-07e2-44a2-90d7-1157876805bc] 17.38 GB							-1		
3	CPL [WRATH-TITANS_FTR-3D_F_EN-QMT_INT_51_2K_WR_20120315_TDC_i3D] 12.78 KB									
4	Picture [32565ftb-190e-4144-8a55-508aa2a1f0d3] 17.20 GB									
0	Picture [40beca93-84c7-4866-8867-d2e44175f070] 14.44 GB									
0	Sound (0203	oudt-bb/3-4	cu/-a4ec-e/	(32434904]				/2/.12 MB		_
7	Sound (693c	a6e5-3766-4	15ab-8c13-14	60779ab406]				866.98 MB		
8	Picture [7992	86ac-824a-4	101e-ae95-20	1721eb64774]	2			17.93 GB		\mathbf{N}

Figure 63 Checking for stray files in package(s) or CPL(s)

You can check if there are stray files in the selected package(s) or CPL(s) by pressing Check Stray. A small window pops out to confirm if there are no stray files.

4

	Content Anno	tation					Issue Date	Size		Select	2
1	01-GDC-TRAI	NING-INGE	STING-CONTE	NT_TST_F_	EN-XX_20_2	2K_GD(06-06-2012	493.63 MB		×	
2	01-GDC-TRAI	NING-INGE	STING-CONTE	NT_TST_S_	EN-XX_20_2	2K_GD	06-06-2012	503.93 MB		100	
3	02-GDC-TRAI	NING-BUILI	DING-A-PLAY	IST_TST_F_	EN-XX_20_	2K_GD	06-06-2012	481.09 MB			
4	02-GDC-TRAI	NING-BUILI	DING-A-PLAYI	IST_TST_S	EN-XX_20_	2K_GD	06-06-2012	489.68 MB			
5	03-GDC-TRAI	NING-SMS-	OVERVIEW_1	ST_F_EN-X	(_20_2K_GI	DC_201	06-06-2012	419.09 MB		1	
6	03-GDC-TRAI	NING-SMS-	OVERVIEW_1	ST_S_EN-X	X_20_2K_G	DC_201	06-06-2012	424.26 MB			
7	04-GDC-TRAI	NING-LIVE-	PLAYING-CO	NTENT_TST_	F_EN-XX_2	0_2K_(07-06-2012	735.43 MB			
*	1.1.000 701		PL 10/000 000			n nu l	** ** ****	750 20100		1	
V	ew CPL	Check	Stray	Quick Verify	/ Nov	N		Verity	Delete		Select All
	Asset Type								Sta	tus	
1	Picture (25eaa	a25-10aa-4	4a/b-9811-e45	6d/dbcd10j					OK		
1	Sound [9f3e8t	o62-233e-4	56e-851f-e146	6224e242]					ок		
1	CPL [01-GDC	TRAINING-	INGESTING-C	ONTENT_TS	T_F_EN-XX	_20_2K_	GDC_20120606_G	SDC_OV]	OK		

Figure 64 Package [Quick Verify]

5	Select Quick Verify to quickly check the integrity of the files in case it is modified or corrupted by calculating hash for each file in the selected package(s) or CPL(s).
6	You will see OK under the Status column after verifying that no problems are detected. If errors are found, the description of the error will be shown instead as seen in Figure 64 above.
	NOTE : If there is an error in the selected package, it will indicate Failed under the Status column.

4. CONTENT MANAGER



Figure 65 Content Manager [Schedule].

7	You can view the list of package(s)/CPL(s) that you have scheduled for verification by selecting the Schedule option.
8	Select the desired package or CPL and press View to see its schedule details.
9	Select the desired package or CPL and press Remove to delete it from the schedule list.

4.3. KDM Management

4.3.1. Manage KDM

XONDERIN MAR	nager								Control Panel	Exit
ummary	Ingest	Status	Schedule	Content	KDM	Source				
Ca	ontent Anno	tation					Issue Date		Status	Select?
1 🔑	COLD-W	AR_FTR_S	YUE-QMT-EN	N_HK_TD_71	_2K_EDKC	0_20120925	06-11-2012		ОК	×
2	KDM for S	Stem_R2_J2	2K_Enc				03-12-2010	,	ок	
3	LIFE-OF-	PI_FTR-3D-	4FL_F_EN-Q	MT_HK_71_2	K_TCF_20	121026_DLA	18-11-2012		ок	
4 🔑	LIFE-OF-	PI_FTR_F_I	EN-YUE_HK_	OV_51_2K_T	CF_20121	102_DAU_0	18-11-2012		ок	
		,						1 damy		
KDM UU KDM Anr Needed I Stated Va	Key ID: notation: by: alidity:	Delivery N 99283d0-1 COLD-WAI COLD-WAI [07-11-201	Message ###4017-8ebe R_FTR_S_YU R_FTR_S_YU 200:00:00 HK	-211019071001 E-QMT-EN_H E-QMT-EN_H T-01-02-201	1 K_TD_71_ K_TD_71_ 300:00:00	2K_EDKO_2 2K_EDKO_2 HKT]	0120925_BO_ 0120925_BO_	ov ov		

Figure 66 KDM Manager.

1	Select the KDM tab in the Content Manager menu.
2	Show the KDMs present in the selected directory that are valid for this IMB.
3	Show the details of the selected KDM, including target, CPL, UUID and date of validity.
4	Display date of issue for KDM.
5	Verify the integrity of the KDM.
6	Delete removes KDM from the IMB.

4.4. Source Management

4.	4.	1.	Adding	а	Data	Source
----	----	----	--------	---	------	--------

many Innest State	Contraction of the second se	
inary rigest conta	Schedule Content KDM Source	
iource List		
Source Name:		
Jourde Marrie.		
2	Add Delete Edit	
iource Information		
Source Type:	1082.6	
source IP:		
Source Path:		
Jsemame:		
Password:		

Figure 67 Content Manager [Source].

1	You can add a new source or edit an existing source by selecting the Source option.	
2	To add a new source, enable the source name entry and source information entry by pressing Add. The Add button will then change to the Save button as seen in Figure 68 below.	

0	1.4.5.4	1 and 1	Contra	1 contract	L MORE	Courses	1		
Summary	Ingest	Status	Schedule	Content	KLM	aouroe	100		
-Source Li	a-								
	151						-		
Source N	lame:		FileServer				\geq		
		-	S <mark></mark>				1		
		5	Save		Delete	Ca	incel		
		Ŭ							
-Source In	formation -							 	
Source T	ine:		CIES				∇		
	3pc.						<u> </u>		
Source #	p.		102 168 103	a					
			102.100.100						
Source F	ath:		data						
			3						
Useman	e:		ingest						
Passwor	d:								
							_	J	

Figure 68 Content Manager – Setting the data source parameters.

3	Type in the new data source name on the Source Name entry.
	NOTE : You can type on each entry using an external keyboard or by using the on-screen keyboard .
	The on-screen keyboard is normally used when an external keyboard is not present.

4	Set the p	arameters of the source. Select the type of source from a dropdown list.								
		CIFS								
		DSR								
	Type in the select	ne server name (source IP), source directory (source path), username and password of ted source.								
	NOTE:									
	1.	For sources such as FTP and CIFS, the IP address, source path, username and password are enabled. The username and password are optional provided that the data source is not protected by username and password. For example, some window shares can be accessed without username and password, while other window shares need a username and password.								
	2.	 For source such as NFS, only the server name and directory are enabled. The username and password entries are disabled. 								
	3.	For sources such as IEEE 1394, USB 2.0, Local directory, all entries are disabled since they are not necessary.								
5	Press Sa	ve to save all settings.								

						Concession and	7	10	
Summary	Ingest	Status	Schedule	Content	KDM	Source			
-Source I	iet								
	A.10		ner Transserverser						
Source N	lame:		USB DRIVE						
		J							
			Add		Delete	1	Edit		
						_ 2			
-Source In	formation —					2			
Course 7									
Source	ype:		11238-2.0						
Source I	2		1					1 AT	
Source F	'ath:								
Useman	e:								
			r					245	
Passwor	£:							1	

4.4.2. Erasing a Data Source

Figure 69 Deleting a previously saved data source.

1	Select the data source you want to delete from the dropdown list.
2	Press Delete to delete the selected data source.

Contraction Wildl	nager						-	-	Control Panel	E
Summary	Ingest	Status	Schedule	Content	KDM	Source				
-Source Li	ist									
Source N	lame:		LISB DRIVE					St. S.		
			Add		Delete		Edit			
Source In	formation							- 2		
DOURCE IN	IOMBION						-			
Source T	ype:		1882.6				\geq			
Sourceal	D.		-					143		
0000000										
Source F	ath:							1		
							2	1000		
Usernam	ie:							1		
Passwon	rfs.		ľ					100		
- chorres										

4.4.3. Editing Sources

Figure 70 Editing a new data source.

1	To edit an existing source, select the data source you want to edit from the dropdown list.
2	Press Edit to edit the selected data source. Add and Edit buttons will change to Save and Cancel.

Content Manag	ger		Control Panel	Exit
Summary	Ingest Statu	Schedule Content KDM Source		
-Source List	÷			
Source Nan	ne:	source		
		Save Delete Cancel		
		+		
-Source Infor	mation			
Source Typ	e:	FTP Z		
Source IP:				
		-		
Source Pat	h:			
Username:			$\langle \! \langle \! \rangle \!$	
Password:				
		Show ingest content annotation text		

Figure 71 Editing the parameters of the selected data source.

3	You can edit/change the source name, parameter settings, username, or password by	
	typing on each entry using an external keyboard or an on-screen keyboard . NOTE: For more information regarding types of sources, please refer to Figure 68 .	
4	Press Save after making all the changes.	

5. ADMIN PANEL

5.1. General Introduction

Set Up and Configuration

The Admin panel is an easy-to-use and convenient software tool for the maintenance and configuration of GDC IMB. This Admin panel provides all the necessary tools for setting up and managing the IMB. A comprehensive array of easy to access menu pages are provided to simplify configuration and maintenance via a combination of simple buttons and an on-screen keyboard.

Secured Access

Clearly indicated button pages allow IMB network setup, maintenance and configuration, and access to software information. All actions can be performed by touching the drawn control on the screen of the IMB. Access to the Admin panel of the GDC IMB is available via the maintenance option and by entering a required password available from authorized GDC personnel only.

5.2. User Interface (UI)

5.2.1. Introduction

The Admin Panel UI provides access to the menu buttons and on-screen keyboard that are used for setting up and configuring the IMB. Diagnostic maintenance and/or monitoring of the status and performance of the IMB can also be done via the Admin Panel UI. Other information including hardware and network setup of the IMB can also be accessed through the Admin Panel UI. It also enables configuration of the timezone and selection of the touchscreen type of the IMB.

5.2.2. Admin Panel Access



5.2.2.1. Access via Control Panel

Figure 72 SX-3000 IMB Control panel.

1	Press Control Panel on the Main menu.
2	Click on the Admin panel button to go to the startup window for Admin Panel as seen in Figure 72.



5.2.2.2. Access to Admin Panel Menu

Figure 73 Entering the password for Admin panel main menu.

1	Click on Focus. Clicking on Focus once before you start typing enables what you type in the onscreen keyboard to go into a specific window. Without focusing on the particular window, text will not appear even if you type something. Click Focus again only when necessary.
2	Click on the password entry on the screen and type in the required password using the on-screen keyboard and then press Login to access the Admin Panel main menu.
	NOTE: The password is available from GDC authorized personnel only.

3	Select Quit if you wish to go back to Control Panel menu. A small window pops out to confirm the selection.
4	Select Shut Down if you wish to shut down the IMB. A small window pops up to confirm the selection.

5.2.2.3. Main Menu





1	Storage System Management	For creating a new RAID array and monitoring the RAID array status. For adding and removing HDDs from RAID array. Also shows hard disk information, hard disk usage and storage performance.
2	Diagnostics/Maintenance	For changing timezone, and extracting logs and configuration backups from the IMB.
3	System Info	Shows OS version, licensing, hardware and hotfix information.
4	Touchscreen	For selecting touchscreen type and calibrating the touchscreen.
5	User Manager	For adding/editing/deleting username, and for changing current user password.
6	DCI Compliance	For accessing the RTC clock to make time adjustments as well as extracting the Security Manager logs from the IMB.
7	Quit/Shutdown	For switching to SX-3000 Main menu, for shutting down the IMB and restart all services.
9	On-screen keyboard	For keying in text when not using an external keyboard.
5.3. Configuration & Maintenance

5.3.1. Storage System Management



Figure 75 Storage System Management menu.

1 Select Storage System Management. A small window for Storage System Management menu pops up.

5.3.1.1. Create new RAID array

		Storage System Manage	ment
1	Create new RAID array	Add disk to RAID array	Remove disk from RAID array
	Monitor RAID Status	Hard Disk information	Hard Disk Usage
	RAID filesystem check	Import RAID array	Storage performance

Figure 76 Storage System Management [Create new RAID array].

Select Create new RAID array. A new window appears as seen in Figure 77.

1



Figure 77	Selecting	HDD for	RAID.
-----------	-----------	---------	-------

2	2	Select the HDD by clicking up [\uparrow] or down [\downarrow] arrow keys and then clicking the space key on the on-screen keyboard. Repeat to select another HDD. A minimum of three (3) HDDs is required for selection.	
:	3	Click Return after selecting the required HDDs. A new window appears to confirm the selection.	

	Data /dev. /dev/i Are s	on following dri ′sdd sdb you sure? →	ves will be destro	yed:	
Esc ! @	# \$ 3 4	× ^ 5 6	& * (7 8 9) =	+ ~
Tab Q	W E	R T Y	U I	0 P	
Control A	S D	F G	н ј к	L	, Return
Shift	z x	с v в	N M	< >	? Com Shift
xvkbd Caps Lock	Alt Meta		Meta Alt	$\left \leftarrow \right \rightarrow$	↑ ↓ Focus

Figure 78 Confirming the selection of HDDs.

4	Select Yes or No to confirm or cancel the selection by clicking the right $[\rightarrow]$ or left $[\leftarrow]$ arrow keys on the on-screen keyboard and then click Return.									
5	If less than three (3) HDDs are selected, a small dialog box pops up.									
	Minimum 3 HDDs required									

5.3.1.2. Add Disk to RAID Array



Figure 79 Storage System Management [Add disk to RAID array].





Figure 80 Selecting hard disks to add to RAID.

3

Select the disk to add to the RAID, and then press Select.

	mdadm: Done.	re-	add	ad /de	v∕sdì	51														
1				Sav	e o	utpu	ut te	o U	SB					Back						
	Esc	! 1	1	@ 2	# 3	\$ 4	1	% 5	6	1	& 7	* 8		5) 0	1	-	+ =		
	Tab		Q	w		E	R		т	Y	1	U	1	(>	Р			3	Del
	Con	trol		A	s	D		F	G		Н	J	+	(L	1	;	,	F	Return
	s	Shift	36	z	:	×	с		v	в		N	м	<		>	2		Com pose	Shift
	xvkbd	Cap	os k	Alt	N	1eta					м	eta	Alt		←	\rightarrow		1	↓	Focus

Figure 81 Confirmation of adding a disk to the RAID.

4	A new window appears confirming that the hard disk is successfully added to the RAID.
	Press Save output to USB to save a screenshot of the information to a USB disk.
	Press Back to return to the Storage System Management menu.

5.3.1.3. Remove Disks from RAID Array

Storage System Management										
Create new RAID array	Add disk to RAID array	Remove disk from RAID array								
Monitor RAID Status	Hard Disk information	Hard Disk Usage								
RAID filesystem check	Import RAID array	Storage performance								

Figure 82	Storage System	Management [Remove	disk from RAID array
rigule oz	Storage System	Management [Remove	UISK HOIH KAID allay

1 Select Remove disk from RAID array. A new window appears as seen in **Figure 83**.



Figure 83	List of hard d	isks that can	be removed f	rom RAID.
-----------	----------------	---------------	--------------	-----------

Select the hard disk to remove from RAID and then click the Select button. A new window will appear to confirm that the hard disk has been removed as seen in **Figure 84**.

2

	ndadm: ndadm: Done.	set hot	/dev remo	/sdb ved	1 fa ∕dev	ulty /sdb1	in ,	/dev	/md0											
	14																			L L
→				Sav	'e o	utpi	ut t	o U	ISB							I	Bac	k		
	Esc	!	@	Sav	e o #	utpi	ut te	o U %	JSB		& 7	8		(9)	=	Bac	k + =		~
	Esc	1	Q	Sav	e o # 3	utpi	ut t 	o U *5	JSB	ý Y	& 7	* 8 U	1	(9	0	 - 	Bac	k + 		Del
	Esc Tab Cont	! 1 I rol	Q A	Sav	e o # 3 S	utpi	ut t R	o U *5 F	JSB т (ý Y G	& 7 H	8 U		(9 К) 0 0 1 L	P	Bac	* + = 	 3 R	Del return
	Esc Tab Cont	i i rol	Q A	Sav	e o # 3 	utpi \$ 4 D D	It t R C	o U *5 	JSB _ (т _ (v	Y B	& 7 H	в в ц и и	I M	(9) 0 0 1 2	P	Bac	* k += 	I B Com Dose	Del shift

Figure 84 Confirming the removal of selected hard disk.

3 Press Save output to USB to save a screenshot of the information to a USB disk.

Click Back to return to Storage System Management menu.

5.3.1.4. Monitor RAID Status



Figure 85 Storage System Management [Monitor RAID status].

1 Select Monitor RAID Status. A new window appears as seen in Figure 86.

2 ----> Press <CTRL+c> to quit

#0 : active raid5 sdb1[0] sdd1[2] sdc1[1] 1953519872 blocks level 5, 64k chunk, algorithm 2 [3/3] [UUU] bitmap: 1/233 pages [4KB], 2048KB chunk

Esc	! 1	@ 2	# 3	\$	% / 5	6	& * 7 8	° 1	[]]		- +	+	~ `
Tab	Q	w	E	R	Т	Y	U	I	0	Р	ي [3	Del
Conti	rol	A	S I	D	F	G	H J					F	leturn
SI	hift	z	×	с	v	В	N	м	< ,	>.	?	Com pose	Shift
xvkbd	Caps	Alt	Meta				Meta	Alt	•	- ->	• •	↓	Focus

Figure 86	Status	of active	RAID	in the IMB.
-----------	--------	-----------	------	-------------

2

Press <<u>CTRL</u> + c> to quit and return to the Storage System Management menu. A blinking red command line for exiting the current window appears on the top left corner of the screen.

5.3.1.5. Hard Disk Information



Figure 87 Storage System Management [Hard Disk Information].

1 Select Hard Disk Information. A new window appears as seen in Figure 88.

/d /d /d /d	ev/mc ev/sd ev/sd ev/sd ev/sd	10 - ; d - H c - H b - H a - T 10 - 1	3eac Iitac Iitac Iitac S8G RAID	28a6- hi_HU hi_HU hi_HU CF20)	9008 JA72 JA72 JA72 01_A	So 3020 3020 3020 3643	elect 17-e 0ALA 0ALA 0ALA 0ALA	a H 368 64 64 64 262	lard -bf2 0_M 0_M 0_M 22AB	Disk 4bd K027 K027 K027	0fc 71Y 71Y 71Y 66F	e41 GHC GHG GH8	08RG iML8 WZ2	iG A G		
			S	elect				T				С	ance	2l		
Es	sc 1		0	#	\$	% 5	^ 6	& 7	1	*	(9)	1	+ =		1
	Tab	Q	w	E	R	Т	Ţ	1	U		0		P	ĩ	3	Del
	Control	1 10	A	s	D	F	G	н		J	к	L			R	eturn
	Shift		z	×	c	V	E	3	N	м			>	?	Com pose	Shift
xvkt	bd Ca	ps	Alt	Meta					Meta		1+	4		1		Entre

Figure 88 Selecting the hard disk to be viewed.

2	Select the disk you want to view the information from and press Select.
3	A new window will show the information for the selected disk as seen in Figure 89.
	Press Save output to USB to save a screenshot of the information to a USB disk.
	Click Back to return to Storage System Management menu.

3 -

```
SMART Self-test log structure revision number 1
No self-tests have been logged. [To run self-tests, use: smartctl -t]

      SMART Selective self-test log data structure revision number 1

      SPAN MIN_LBA MAX_LBA CURRENT_TEST_STATUS

      1
      0
      Not_testing

      2
      0
      Not_testing

      3
      0
      0 Not_testing

      4
      0
      0 Not_testing

      5
      0
      0 Not_testing

      Selective self-test flags (0x0):
      After scanning selected spans, do NOT read-scan remainder of disk.

      If Selective self-test is pending on power-up, resume after 0 minute delay.

      Done
                                               Save output to USB
                                                                                                                                                                                                        Back
-
                                              0
                                                                                                                  ٨
                                                               #
                                                                                 Ś
                                                                                                 %
                                                                                                                                   8
                                                                                                                                                    *
                                                                                                                                                                                      )
                                                                                                                                                                                                                        +
                                                                                                                                                                                                                                                          ~
         Esc
                                                                                                 5
                                                                                                                  6
                                                                                                                                                    8
                                                                                                                                                                                      Ó
                                              2
                                                               3
                                                                                                                                   7
                                                                                                                                                                     ģ
                                     Q
                                                      W
                                                                       Е
                                                                                        R
                                                                                                         Т
                                                                                                                          Y
                                                                                                                                           U
                                                                                                                                                                             0
                                                                                                                                                                                              Р
              Tab
                                                                                                                                                             I
                                                                                                                                                                                                                                                   Del
                                              A
                                                               S
                                                                                D
                                                                                                 F
                                                                                                                  G
                                                                                                                                  н
              Control
                                                                                                                                                    J
                                                                                                                                                                     κ
                                                                                                                                                                                      L
                                                                                                                                                                                                                                            Return
                                                                                                                                                                             <
                                                                                                                                                                                              >
                                                                                                                                                                                                                ?
                                                                                                                                                                                                                                Com
                     Shift
                                                      Z
                                                                       х
                                                                                        С
                                                                                                         ٧
                                                                                                                          в
                                                                                                                                           N
                                                                                                                                                            M
                                                                                                                                                                                                                                                    Shift
                                                                                                                                                                                                                              pose
      xvkbd
                             Caps
                                                  Alt
                                                                     Meta
                                                                                                                                        Meta
                                                                                                                                                               Alt
                                                                                                                                                                                                                      1
                                                                                                                                                                                                                                       t
                                                                                                                                                                                                                                                     Focus
                             Lock
```

Figure 89 List of information for selected hard disk.

5.3.1.6. Hard Disk Usage

	Storage System Manage	ment	
Create new RAID array	Add disk to RAID array	Remove disk from RAID array	
Monitor RAID Status	Hard Disk information	Hard Disk Usage	•
RAID filesystem check	Import RAID array	Storage performance	

Figure 90 Storage System Management [Hard Disk Usage].

1	Select Hard Disk Usage from Storage System Management menu.
2	A new window showing hard disk usage appears as seen in Figure 91 . Click Back to return to the Storage System Management menu.



Figure 91 Size of the hard disk, and the used and available spaces in the hard disk.

5.3.1.7. Import RAID Array

Storage System Management										
Create new RAID array	Add disk to RAID array	Remove disk from RAID array								
Monitor RAID Status	Hard Disk information	Hard Disk Usage								
RAID filesystem check	Import RAID array	Storage performance								

Figure 92	Storage System	m Management	[Imnort	RAID arravl
riguic 32	olorage oyster	management	լոոթօււ	india anay.



5.3.1.8. Storage Performance

Storage System Management									
Create new RAID array	Add disk to RAID array	Remove disk from RAID array	ĺ						
Monitor RAID Status	Hard Disk information	Hard Disk Usage	ĺ						
RAID filesystem check	Import RAID array	Storage performance							

Figure 93	Storage System	Management	Storage	nerformancel
rigule 35	Storage System	wanayement	Louage	periornancej.

1	Select Storage performance. A new window showing a list of hard disks appears as shown in Figure 94 .
2	Select the hard disk you want to view and press Select to execute the process.



Figure 94 Storage performance [Select a Hard Disk].



Figure 95 Shows information on storage performance of the selected hard disk.

3	A new window showing information on hard disk performance appears as seen in Figure 95.
	Press Save output to USB to save a screenshot of the information to a USB disk.
	Press Back to return to Storage System Management menu.

5.3.2. Diagnostics/Maintenance

5.3.2.1. Access to Diagnostics/Maintenance

		5	Storage System Management					Diagnostics/Maintenance					<u> </u>
			System info Touchscreen User						nanage	r		\mathbf{i}	
						DCI com	pliance				ĺ		
						Quit/Sh	ıtdown				ľ.		
					Diagn	ostics/I	lainten	ance					
	Extrac	t logs	& config	uration		Backup	configu	iration	Res	tore con	figura	tion	
	Co	nfigur	e Timezo	one	C	hange k	eyboan	d layout		System	Check		
									Sc	oftware	Upgrad	te	
Esc	2	1		× 5	1	6 7		· (· 9)	Ξ	+ =		~
Tab	Q	w	E	R	т	Y	U	1	0	Р	1	3	Del
Control	A	5	3 D	F		а н		і к	L			R	eturn
Shif	t 🛛	z	×	c	۷	В	N	м	<	`	?	Com pose	Shift
xvkbd C	Caps ock	Alt	Meta		- 00	Diama	Meta	Alt	+	→	1	↓	Focus

1 On the Main menu, select Diagnostics/Maintenance. A small window for Diagnostics/ Maintenance menu appears.

5.3.2.2. Extract Logs & Configuration





1	Select Extract logs. A pop up window shows that backup is in the progress.							
	Creating backup, please wait							
2	Once extract log files finished, a new window showing backup done is appeared. The USB can be removed. Backup done, USB disk can be removed now.							

Diagnostics/Maintenance							
Extract logs & configuration	Backup configuration	Restore configuration					
Configure Timezone	Change keybo <mark>a</mark> rd layout	System Check					
	1	Software Upgrade					

5.3.2.3. Backup Configuration

Figure 98 Diagnostics/Maintenance [Backup configuration].

1 The Backup Configuration saves the IMB configuration to a backup file on a USB disk or thumb drive. Attach a USB thumb drive to the IMB and select Backup Configuration to save the current IMB configuration.



Figure 99 Saving IMB configuration

2	The backup file is saved in an encrypted format as seen in Figure 99 . The following configuration files are included in the backup file:
	Network configuration information
	Automation configuration
	SNMP configuration
	SMS configuration
	Content manager source configuration
	Network Time Protocol (NTP) configuration
	System user interface passwords
	Show Playlists

5.3.2.4. Restore Configuration

D	iagnostics/Maintenance	
Extract logs & configuration	Backup configuration	Restore configuration
Configure Timezone	Change keyboard layout	System Check
	50 Sa	Software Upgrade

Figure 100 Diagnostics/Maintenance [Restore configuration].



Figure 101 Select file to restore.

2 Restore Configuration will restore the IMB configuration from a backup file on a USB disk or thumb drive. When Restore Configuration is pressed, a list of backup files present on the USB disk is displayed. Select the backup file to restore and then press Select.



3	Information on the backup file will be displayed. Press Restore to confirm and restore configuration from the backup file.
4	When the configuration is restored from the backup file, a confirmation message will appear. Press OK. IMB will then be rebooted.

5.3.2.5. Configure Timezone



Figure 103 Diagnostics/Maintenance [Configure Timezone].





Figure 104 Selecting the timezone of specific region.



Figure 105 Selecting the timezone of specific country.

3 Move the highlight bar to your timezone by clicking the up [↑] or down [↓] arrow keys on the onscreen keyboard and then click the space key. Then click the right [→] arrow key to select the OK button and click Return.

5.3.2.6. Software Upgrade

Diagnostics/Maintenance							
Extract logs & configuration Backup configuration Restore configuration							
Configure Timezone	Change keyboard layout	System Check					
	192 - Sa	Software Upgrade					



1 From the Software Upgrade button in the Admin Panel you can run any GDC issued script, once you press the button you will be prompted for the upgrade password as seen in **Figure 107.**

	Enter the password:	
	7 8 9	
	4 5 6	
	1 2 3	
	0 Del	
2 —	Enter	

Figure 107 Diagnostics/Maintenance [Software Upgrade]

2	Enter the password of the upgrade file and press Enter.



Figure 108 Diagnostics/Maintenance [Software Upgrade]



5.3.3. System Information



5.3.3.1. Access to System Info

Figure 109 System Info menu.

On the Main menu, select System Info. A small window for System info menu appears.

1

5.3.3.2. Software/OS Version



Figure 110 System Info [Software/OS version].

 Select Software/OS version on System Info menu.
 The OS and Software versions of the IMB are shown in a new window as seen in Figure 111. Press Back to return to System Info menu.



Figure 111 Shows current software and OS versions of the IMB.

5.3.3.3. Hardware Information



Figure 112 System Info [Hardware information].

1	Select Hardware information on the System Info menu.
2	A new window showing the list of hardware information including the Motherboard, Video card and MPEG card used in the IMB as seen in Figure 113 . Press Back to exit and return to System Info menu.



Figure 113 List of hardware information including the Motherboard, Video card and MPEG card used in the IMB

5.3.3.4. Hotfix Information



Figure 114 System Info [Hotfix information].

1	Select Hotfix information. It allows the user to check on the patches and upgrades installed on the IMB.
2	A new window showing hotfix information appears as seen in Figure 115 . Press Back to return to the System Info menu.



Figure 115 Patches and upgrades installed in the IMB.

5.3.4. Touchscreen



5.3.4.1. Access to Touchscreen

Figure 116 Touchscreen menu.

1 On the Main menu, select Touchscreen. A Touchscreen menu appears showing two types of touchscreens.

5.3.4.2. Select Touchscreen Type





5.3.4.3. Calibrate Touchscreen











3 Touch the blinking symbol until it stops. Continue touching the blinking symbols on each of the four (4) corners of the screen to complete the calibration of the touchscreen.

5.4. User Manager

5.4.1. Access to User Manager



Figure 120 User Manager menu.

On the Main menu, select User Manager. A small window for User Manager menu appears.

5.4.2. Add/Edit user



1

		E	nter a us r change	ername a 2 passwor	nd pas rd for t	isword that use	to creat r	e a use	r,			
			Us Pa: Verify	ername: ssword: passwor]] d: [
				Ok		Cancel						
c !	@ 2	# 3	\$ 4	% ^ 5 6	8 7	*	(9)	=	+ =	R	~ `
Tab Q	w	E	R	Т	Y	U	1	0	Р	[3	Del
Control	A	s	D	F G	н	J	ĸ	L			Re	turn
Shift	Z	×	c	v	в	N	м	<	>	?	Com	Shift
xd Caps	Alt	Met	a			Meta	Alt	-	-	1	↓	Focus

Figure 122 Username and Password entries.





5.4.3 Delete User



1 Select Delete user. A new window appears showing a list of usernames as seen in Figure 124.



Figure 124 Selecting the username to be deleted.



5.4.4. Change Current User Password

	User r	nanager
Add/Edit user	Delete user	Change current user password 4
Figure	- 125 . Lloor mono	

Figure 125 User manager [Change current user password].

1	Select Change current user password. A new window for password entry appears as seen in
	Figure 126.

			()			
		P	assword:	swora for gac		
			Ok (Cancel		
ic	@ # 2 3	\$	% ^ 8	* ()	1	<u>+ 1 ~</u>
ic ! Tab Q	@ # 2 3	\$ 4 E R	% ^ 8 5 6 7	* () 8 9 () U I O	P	+ ~ . = \ Del
sc 1 Tab Q Control	@ # 2 3] W A S	S 4 E R	% ^ 8 5 6 7 T Y F G H	U I O	P	+
sc i Q Tab Q Control Shift	@ # 2 3 W A S	\$ 4 E R D X C	% ^ 8 5 6 7 T Y F G H V B	* () 8 9 () U I O I J K I	P	+

Figure 126 Password entry to change password.

1	Type in your new password and press OK. A small window appears confirming the change in password.
	Password changed for gdc
	Ωκ
	Press OK to exit and return to User Manager menu.

5.5. DCI Compliance

5.5.1. Access to DCI Compliance



Figure 127 DCI compliance menu.

Press the DCI compliance button to access the RTC time offset or extract the SM (Security Manager) logs.

1
5.5.2. Offset RTC Time



Figure 128 RTC Offset.

1	The allowed offset range is set to plus or minus 360 seconds
2	The Offset can be set + or – within the allowed offset range seen in field 1. The time is set in MM:SS (Minutes: Seconds)





Figure 129 Set time for SM log.

1	Choose the date and time range for SM log extraction. It is possible to alter the name of the output file
	with the Key Pad button. Once a USB drive has been inserted press the Get Log button.

5.6. Quit/Shutdown

	Storage Sys	stem Management	Diagnostics/Maintenance	
	System info	Touchscreen	User manager	
		DCI compliance		
		Quit/Shutdown		
		Quit or shutdown		
		Quit Sł	nut Down	
		Logout Restar	rt all services	
Esc ! @ 1 2	# \$ 3 4	% ^ & 5 6 7	8 9 0 -	$+$ 1 \sim 1
Tab Q N	W E F	I T Y	U I O P	
Control A	S D	F G H	JKL	, Return
Shift	z x c	: V В	N M < >	? Com Shift
xvkbd Caps Al	t Meta	N	Meta Alt ← →	↑ ↓ Focus

Figure 130 Quit/Shutdown menu.



(d)) Select Restart all services to restart all automation, communications, playback, and content management services on the IMB. Playback will be stopped while services are restarted.
	Select Yes to restart services or No to cancel.
	This action will stop playback and restart all services. Are you sure? Yes
	A confirmation message will be displayed after all services are restarted. Press OK to exit.
	Services restarted

6. IMB OPERATION NOTES

6.1. Power Up Sequence

Always power up any external storage (PSD-3000-U/P, or external NAS) before powering up the projector. The external storage must be powered up first to be correctly identified by the SX-3000.

6.2. Power Down Sequence

Always power down the SX-3000 system and projector with the following steps:

- 1. Power down the SX-3000 by using the SMS -> Shutdown button.
- 2. Power down the projector after the SX-3000 is powered down.
- 3. Power down any external storage attached to the SX-3000.

GDC Technology Offices

USA (Los Angeles, CA)

1016 West Magnolia Boulevard Burbank,CA 91506, USA Tel: +1 818 972 4370/ +1 877 743 2872 (Toll Free)

USA (Sterling, VA)

21155 Whitfield Place, Suite 207, Sterling, VA 20165, USA Tel: +1 877 337 0868 (Toll Free)

Spain (Barcelona)

Centro de Negocios Josep Tarradellas Office 72 and 73, Av. Josep Tarradellas, nº 38 08029 Barcelona Tel: +34 93 355 49 72

Hong Kong

Unit 1-7, 20th Floor, Kodak House II, 39 Healthy Street East, North Point, Hong Kong Tel: +852 2523 6851

Japan (Tokyo)

7F Nishino Kinryo Bldg, 4-9-4, Hatchobori, Chuo-ku, Tokyo 104-0032, Japan Tel: +81 3 3523 2650

Singapore

10 Ubi Crescent, Ubi Tech Park, Lobby B, #06-25, Singapore 408564 Tel: +65 6222 1082

China (Shenzhen)

5th Floor GDC Building, No.9 Hi-tech Middle 3 Road, Science & Technology Park, Nanshan District, Shenzhen, P.R. China 518057 Tel: +86 755 8608 6000

China (Beijing)

Rm. 609-618, Office Building, 20# Xinde Street, Xicheng District, Beijing, P.R. China 100088 Tel: +86 10 6205 7040

Email: info@gdc-tech.com Website: www.gdc-tech.com



GDC manufacturing facility is ISO 9001: 2008 certified.

Copyright © 2013 GDC Technology Limited. All rights reserved. All trademarks listed in this manual are properties of their respective owners. Specifications are subject to change without notice due to ongoing product development and improvement.