

RMIT University - AV Test Script

Room:		AV Design:				Date:							
Ref	Item	Script No.	Test Type	AV Standards Reference	Details	Severity	Test Status	Defect Identified	Associated Defect No.	Comment/Defect	Resolution Date	Date of Final Test	
1	AMX Control System (Touch Panel and Keypad)	1.01	Functional		Ensure the Control Panel has an immediate response when activating the buttons (less than 300 milliseconds)	1	Not Run						
		1.02	Functional	2.16.1 GUI 2.16.2 Keypad Layout	Ensure all input sources are represented on the Touch Panel or Push Button controller (as per room design)	1	Not Run						
		1.03	Functional	2.16.1 GUI 2.16.2 Keypad Layout	Ensure correct feedback representation on Touch Panel for the following: a. all input sources; b. volume up and down; c. picture mute; and d. audio mute	1	Not Run						
		1.04	Functional	2.16.1 GUI 2.16.2 Keypad Layout	Verify layouts & labels are correct	1	Not Run						
		1.05	Functional	2.16.1 GUI	Verify Help pages have been loaded are correct and match sources in the room (ref to Screen Shoot tab)	1	Not Run						
		1.06	Functional	2.16.1 GUI	Ensure the correct floor plan/map and orientation is loaded on the Touch Panel(for Collaborative spaces only)	2	Not Run						
2	Projector(s)	2.01	Functional		Verify all input sources are switched to and display the content from each source (as per room design)	1	Not Run						
		2.02	Functional	2.13.8 Projector settings	Ensure a black background is set when there is no input	1	Not Run						
		2.03	Functional		Ensure the on-screen display (OSD) messages are switched off (e.g. source display messages)	2	Not Run						
		2.04	Functional	2.13.10 Aspect Ratio 2.13.11 Perceived Image Quality	Ensure the projected image is aligned, focused and displays the same aspect ratio as per the input source	1	Not Run						
		2.05	Functional	2.13.4 Image Geometry	Ensure no keystoneing or lens shift is present on the image	1	Not Run						
		2.06	Functional	2.13.8 Projector settings	Ensure no audio is heard from projector (i.e. Projector is muted)	1	Not Run						
		2.07	Functional	2.13.8 Projector settings	Ensure projector blanks on system shutdown	2	Not Run						
		2.08	Functional	2.15.2 HDCP and EDID 2.15.3 Matrix Switches	Verify device is HDCP compliant	1	Not Run						
3	Audio Output	3.01	Functional	4.1 Room Classification	Ensure FOH speakers reproduce source audio only	1	Not Run						
		3.02	Functional	4.1 Room Classification	Ensure in-ceiling speakers reproduce speech audio only	1	Not Run						
4	Laptop Source	4.01	Functional	2.13.11 Perceived Image Quality	VGA Quality – Ensure the image is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	1	Not Run						
		4.02	Functional	4.1 Room Classification	Audio - Ensure the laptop audio source is heard clearly through all FOH speakers	1	Not Run						
		4.03	Functional	2.13.11 Perceived Image Quality	HDMI Quality – Ensure the image is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	1	Not Run						
		4.04	Functional		Verify that the signal by a source typical of what will be used in normal operation is routed and accurately displayed on all displayw within the system	1	Not Run						
		4.05	Functional	2.16.1 GUI AMX Source Code	Verify all laptop button functionality is working on AMX Touch Panel	1	Not Run						
		4.06	Functional	2.15.2 HDCP and EDID 2.15.3 Matrix Switches	Verify device is HDCP compliant	1	Not Run						
5	Blu-Ray Source	5.01	Functional	2.16.1 GUI AMX Source Code	Verify the ability to control the player via the touch panel, including transport and menu controls	1	Not Run						

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		5.02	Functional	2.13.11 Perceived Image Quality	Video Quality – Verify the image is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content. Image is at maximum projected resolution	1	Not Run					
		5.03	Functional	2.14 Audio Reproduction/Public Access 2.17.4 System hum & interference	Audio Quality - Ensure the default level is audible from all speakers, free from noise, hum or distortion and meets the requirements as specified in RMIT AV Standards and ANSI/INFOCOMM 1M-2009	1	Not Run					
		5.04	Functional	2.15.2 HDCP and EDID 2.15.3 Matrix Switches	Verify device is HDCP compliant	1	Not Run					
6	Desk Microphone	6.01	Functional	2.14 Audio Reproduction/Public Access 2.17.4 System hum & interference	Audio Quality – Ensure the default level is audible from all speakers, free from noise, hum or distortion, and the coverage variance is within ± 5 dB across the listening plan and meets the requirements as specified in RMIT AV Standards and ANSI/INFOCOMM 1M-2009	1	Not Run					
		6.02	Functional	2.16.1 GUI Source Code	Ensure the microphone can be muted and unmuted via the AMX Touch Panel	1	Not Run					
7	Lapel Microphones	7.01	Functional	2.15 Audio Reproduction/Public Access 2.17.4 System hum & interference	Audio Quality – Ensure the default level is audible from all speakers, free from noise, hum or distortion, and the coverage variance is within ± 5 dB across the listening plan and meets the requirements as specified in RMIT AV Standards and ANSI/INFOCOMM 1M-2009	1	Not Run					
		7.02	Functional	2.16.1 GUI Source Code	Ensure the mute button functionality is working on AMX Touch Panel	1	Not Run					
8	Room Motion Detectors	8.01	Functional	Source Code	Ensure movement is registered on AMX Touch Panel (Tech Pages) and the timeout is set to 180 minutes	1	Not Run					
		8.02	Functional	Source Code	Ensure any movement in the room resets the countdown	1	Not Run					
		8.03	Functional	Source Code	Confirm the System is shutdown at the completion of the specific timeout period	1	Not Run					
9	Lecture Capture	9.01	Functional	AMX Guidelines v0.5 - 3.4.3 Home Page	Confirm visual feedback of recording status on touch panel (i.e. solid red light appears when recording and flashing amber light on pause)	1	Not Run					
		9.02	Functional		Confirm content and camera sources are patched to the correct input on the Capture device (camera content appears on left hand side and projected content appears on right hand side display of capture monitor tool)	1	Not Run					
		9.03	Functional	4.5 Lecture Capture	Ensure microphone audio is recorded and audible on playback	1	Not Run					
		9.04	Functional	4.5 Lecture Capture	Ensure Lecture Capture records from all input sources and the image is clear on playback	1	Not Run					
10	Video Conferencing	10.01	Functional	4.3 Video Conferencing	Confirm Tandberg Management System registration (via the setup menu)	1	Not Run					
		10.02	Functional	4.3 Video Conferencing	Confirm the address book downloads correctly (full address details displayed)	1	Not Run					
		10.03	Functional	4.3 Video Conferencing	Confirm call connectivity (internal and external to RMIT)	1	Not Run					
		10.04	Functional	4.3 Video Conferencing	Confirm video, audio and PC content is displaying correctly (internal and external to RMIT)	1	Not Run					
		10.05	Functional	4.3 Video Conferencing	Confirm camera control (near and far end)	1	Not Run					
		10.06	Functional	4.3 Video Conferencing	Confirm appropriate camera pre-sets configured (i.e. presentation tight, presentation wide and audience)	1	Not Run					
		10.07	Functional	4.3 Video Conferencing	Confirm PIP (Picture in Picture) display control via touch panel	1	Not Run					
		10.08	Functional	4.3 Video Conferencing	Confirm full codec control via touch panel, navigating and executing codec menu's	1	Not Run					

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11	Room PC	11.01	Functional	ANSI/INFOCOMM 1M-2009	Audio Quality - Ensure the default level is audible from all speakers, free from noise, no hum or distortion and meets the requirements as specified in RMIT AV Standards and ANSI/INFOCOMM 1M-2009	1	Not Run					
		11.02	Functional	2.13.11 Perceived Image Quality	HDMI Quality – Ensure the image is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	1	Not Run					
		11.03	Functional	2.16.1 GUI Source Code	Ensure the room PC button functionality working on AMX Touch Panel	1	Not Run					
		11.04	Functional	2.15.2 HDCP and EDID 2.15.3 Matrix Switches	Verify device is HDCP compliant	1	Not Run					
12	Monitors	12.01	Functional		Confirm content from all input sources is displayed on each monitor	1	Not Run					
		12.02	Functional		Audio can be heard through each monitor and is in sync with all monitors	1	Not Run					
		12.03	Functional	2.13.9 LCD Panel Settings	Fans are set to “auto” and local controls are disabled (i.e. all buttons on the panels)	2	Not Run					
		12.04	Functional	2.13.11 Perceived Image Quality	Image quality on each display is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	1	Not Run					
		12.05	Functional	2.15.2 HDCP and EDID 2.15.3 Matrix Switches	Verify device is HDCP compliant	1	Not Run					
13	Hearing Augmentation	13.01	Functional	Building Code Aust.	Verify audio from all input sources meet the BCA standard	1	Not Run					
		13.02	Functional	2.14.5 - Hearing Augmentation	Ensure the fixed goose neck or boundary microphones remain active when the AV system is shutdown	1	Not Run					
		13.03	Functional		Verify audio is present at the Infra Red transmitter connection plate and the level being output to the connecton plate is between 500mV and 775mV	1	Not Run					
		13.04	Functional	2.14.7 Infra-Red System	Ensure location of Infra Red transmitter connection plate is such that when a transmitter is installed in the future, there is a clear unobstructed line of sight to room users to current DDA regulations The signal type feeding the IR plate is to be Mono Balanced Line Level, the signal -10dB out of the DSP or mixer (50mV – 3V).	1	Not Run					
14	Document Camera (USB and HDMI)	14.01	Functional	2.13.11 Perceived Image Quality	Image is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	2	Not Run					
		14.02	Functional	2.15.6 Document Camera	Ensure the camera can be controlled via the touch panel (HDMI) or the desktop application (USB). This includes the light, zoom, focus and still capture	2	Not Run					
15	Administration & Final Configuration	15.01	Functional	Source Code	Confirm automated shutdown is set to 180 minutes and midnight	2	Not Run					
		15.02	Functional	AMX Guidelines V0.5	Confirm that the projector soft off time has been set to 20 minutes in the AMX system	2	Not Run					
		15.03	Functional	AMX Guidelines V0.5	Confirm correct room lighting states (as per AMX Standard)	2	Not Run					
16	PTZ Camera	16.01	Functional		Confirm image quality is free from interference, distortion, noise, digital artefacts, brightness and contrast is optimised to room & content	1	Not Run					
		16.02	Functional	2.15.7 PTZ or Fixed Cameras	Confirm correct operation (i.e. pan, tilt, zoom, focus) and field of view is unobstructed	1	Not Run					
		16.03	Functional		Confirm pre-sets can be stored and recalled	2	Not Run					
			Functional		Confirm pre-set 1 is room view pre set 2 is presenters location and Preset 1 is called upon start up	2	Not Run					
	16.04	Functional		Ensure correct lighting levels for optimum camera image	2	Not Run						

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		16.05	Functional		Confirm when pressure pad/motion detector is activated the camera is activated to preset 2 (presenters location)	2	Not Run					
17	Interactive Whiteboard	17.01	Functional		Confirm interactivity on the whiteboard from both the resident PC and Laptop (if applicable) by using both finger and markers	1	Not Run					
		17.02	Functional		Ensure the board is calibrated	1	Not Run					
18	Remote Monitoring System	18.01	Functional	2.16.3 Remote Management	Confirm integration of the AMX Controller with the RMS Server and all components are reporting as per the AMX Standard	1	Not Run					
19	General Physical	19.01	Physical	2.12.10 Labelling Scheme	Verify labelling is applied to all cables and interfaces correctly and straight	2	Not Run					
		19.02	Physical	2.4.9 Asset Register and labelling	Asset tagging has been applied as per RMIT guidelines	2	Not Run					
		19.03	Physical	2.10.14 Looming/Lacing 2.12.4 Cable Installation	Ensure all cables are loomed neatly and securely cable tied or fastened to relieve any strain	2	Not Run					
		19.04	Physical	2.11.1 Power Distribution and control	Double-adaptors and single-pole switched power strips have not been used in equipment racks	1	Not Run					
		19.05	Physical	2.11.2 Power Cable Test & Tagging	All power cables supplied have been tested and tagged to the AS3760 standard	1	Not Run					
		19.06	Physical	2.12.6 Fly Leads	Fly leads to be secured by nylon P-clips & in braided sheath	1	Not Run					
		19.07	Physical	2.10.9 Tamper/Theft Protection	Rack accessories and system components are securely fastened (cat-eye security screws)	1	Not Run					
		19.08	Physical	2.12.6 Fly Leads	VGA with Audio, HDMI, USB and Network Fly leads provided in Laptop Loom	2	Not Run					
		19.09	Physical	2.15.8 Connection Plates	Controllers and Connection Plates are level, fixed securely and engraved correctly	2	Not Run					
		19.10	Physical		No finger marks on displays, reflective surfaces or other equipment	2	Not Run					
		19.11	Physical	2.5 locks	Padlocks, locks and barrels are installed on projector cage, equipment racks and other AV equipment	1	Not Run					
		19.12	Physical	2.5 Locks	Panels are secured on a wall mounting brackets with a 5mm diameter split pin	1	Not Run					
		19.13	Physical	Equipment install manual for projector	Projector security nuts are sheared (top & bottom)	1	Not Run					
		19.14	Physical	2.10.9 Tamper/Theft Protection	Ensure Doc Cams are secured. i.e. Elmo Document Camera is secured to bench with screws. USB Doc Cam is secured with Kensington lock and passcode is 1988	1	Not Run					
		19.15	Physical		Ensure all projector bracket connections have been securely tightened	1	Not Run					
		19.16	Physical	2.14.8 Signage	Hearing Aid Loop signage is present	1	Not Run					
		19.17	Physical	2.10.9 Tamper/Theft Protection	Revo Labs Base station is secured with industrial-strength, foam-backed, double-sided tape	2	Not Run					
		19.18	Physical	4.1 Room Classification	Simulate EWIS triggering to ensure audio from all AV speakers is muted (ceiling and FOH)	1	Not Run					
		19.19	Physical	2.10 Equipment Rack	Confirm correct style rack has been installed	2	Not Run					
		19.20	Physical		Confirm Digital Signage is installed and on the network (90+ Student Room)	2	Not Run					
		19.21	Physical		Confirm the installation is as per Design Brief ie equipment used, location of touchscreen and wallplates)	1	Not Run					
20	Networks	20.01	Physical	3.7.1 TCP/IP Addressing	Ensure all network devices are set to DHCP	1	Not Run					

Sign Off

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	Date	Position			Company	Name			Signature			
		AV Design Consultant										
		AV Integrator										