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Test Case 01 – Transforming between Compact Mode and Projection Mode

Actions/Steps	Expected Result	Pass/Fail
1. With the LumenX ³ on a flat and	- Side buttons do not pop back out	
stable surface, push the buttons		
on the left and right sides of the		
box simultaneously		
2. Pull the handle at the top of	- Inner box slides upward with little effort and	
the LumenX ³ upwards	does not tilt in any direction	
3. Continue raising the handle	- Inner box slides upward until at the Projection	
until the device locks into its	Mode height	
taller Projection Mode	- Once in Projection Mode, the side buttons	
	automatically pop out from the upper holes	
4. Push or pull the handle	- Device components and inner box are stable -	
upwards or downwards	Side buttons do not pop inward	
5. Push the buttons on the left	- Inner box slides down gracefully	
and right sides of the box	- Side buttons do not pop back out of the case	
simultaneously		
6. Push the handle at the top of	- Inner box slides downward until at Compact	
the box down until the device	Mode height, some resistance felt but still quite	
locks into Compact Mode	easy to lock into place	
	- Once at Compact Mode height, the side buttons	
	automatically pop out from the lower holes	
7. Push or pull the handle	- Device components and inner box are stable -	
upwards or downwards	Side buttons do not pop inward	

Test Case 02 – Powering on the LumenX³

Actions/Steps	Expected Result	Pass/Fail
1. Plug the power plug of the	- LED light on LumenX ³ turns on, and shines a red	
LumenX ³ into a power source	colour, indicating the computer is off	
2. Raise the device to Projection	- Device locks into Projection Mode (see Test Case	
Mode	01)	
3. Press the projector's power	- Projector turns on and a blank projection is seen	
button on the top of the LumenX ³	on the tabletop surface	
4. Press the computer's power	- MeegoPad T01 computer turns on, the Windows	
button on the top of the LumenX ³	Operating System screen is seen in the projection	(
	- LED light on LumenX³ turns from red to green	/
	light	





Test Case 03 – Powering off the LumenX³ (Software Shut Down)

Actions/Steps	Expected Result	Pass/Fail
1. With the LumenX ³ powered on	- Projection shows Windows 8.1 OS shutting	
and in its Projection Mode, turn	down, and eventually becomes a blank projection	
off the computer from within the	screen	
Operating System software	- LED light on LumenX³ turns from green to red	
	light, indicating the computer is off	
2. Press the projector's power	- Projection turns off completely	
button on the top of the LumenX ³		
3. Transform the LumenX ³ from	- Device locks into Compact Mode (see Test Case	
Projection Mode to Compact	01)	
Mode		
4. Unplug the power cord from	- LED light turns off, no light emitted from the	
the power source	LumenX ³	

◆ Test Case 04 – Powering off the LumenX³ (Force Shut Down)

Actions/Steps	Expected Result	Test Result
		(Pass/Fail)
1. With the LumenX ³ powered	After 8 seconds:	
on and in its Projection Mode,	- MeegoPad T01 computer turns off	
press and hold the computer's	- LED light on LumenX ³ turns from green to red light	
power button on the top of	- Projection immediately changes from projecting	
the LumenX ³ for 8 seconds	Windows to a blank projection	
2. Press the projector's power	- Projection turns off completely	
button on the top of the		
LumenX ³		
3. Transform the LumenX ³	- Device locks into Compact Mode (see Test Case 01)	
from Projection Mode to		
Compact Mode		
4. Unplug the power cord	- LED light turns off, no light emitted from the	
from the power source	LumenX ³	





Test Case 05 – General Projection Functionality and Performance

Actions/Steps	Expected Result	Test Result
		(Pass/Fail)
1. With the LumenX ³ powered	- The projected computer screen is always	
on and in its Projection Mode,	proportionate, with the rest of the projection	
use the LumenX ³ as if the	always a black colour	
projection was a capacitative	- No part of the computer screen is cut off in the	
touchscreen of a Windows 8.1	projection	
computer	- Corrected computer screen within the projection	
	is always a rectangle of 18.5cm by 11.2cm	
	- Projected Windows 8.1 OS screen has almost no	
	noticeable latency	
2. Open the Screen Resolution	- Only 1280 x 720 is shown as the sole available	
page in the Control Panel of the	resolution, in Landscape Orientation, on the	
Windows 8.1 OS and view	Display "MStar Projector"	
available resolutions		
3. Set the size of items in	- All words in the Operating System are clearly and	
Appearance and Personalization	easily legible	
to Medium: 125%		

Test Case 06 – General Touch Recognition Functionality and Performance

Actions/Steps	Expected Result	Test Result
		(Pass/Fail)
1. With the LumenX ³ powered	- Large Windows desktop icon is easily pressed	
on and in its Projection Mode,	without much precise effort by the user	
tap on a large Windows desktop	- Icon's program upon double-tap opens and shows	
icon, then double tap it	itself in a new window (or however it works)	
2. Tap on a large Windows	- Large Windows taskbar program is easily pressed	
taskbar program	without much precise effort by the user	
3. Open a text editor, bring up	- All letters tapped by the user are accurately	
the on-screen keyboard and	shown on the screen in their correct order	
type words		



