

# FAT PLAN - KME – ##” MONITOR

**MONITOR PART No.** 29LR###W####-M

**MONITOR SERIAL No:**

Document No: 30PB0###

Issue: A

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Date:



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**1. General Notes**

- 1.1. This document defines the tests to verify conformance of the equipment to the appropriate specification
- 1.2. Only calibrated test equipment will be used for measurement.
- 1.3. Tests results data will be recorded with the Pass/Fail Status noted.
- 1.4. Specific test results and their test status will be stamped and dated by approved inspection personnel only.
- 1.5. FAT sign off will be stamped and dated by authorised approval authority only.
- 1.6. Customer acceptance of FAT Results will be stamped and dated by an authorised customer approval authority only.



**2. Test Equipment (TE)**

The calibration status of all test equipment must always be checked before use. DO NOT USE OUT OF CALIBRATION EQUIPMENT.

Plan Reference	Equipment Description	Asset No.	Calibration Due Date	Additional Notes
2.1.	Display AC Power Cable			
2.2.	Display VGA Cable			
2.3.	Display DVI-D Cable			
2.4.	Display HDMI Cable			
2.5.	Network RJ45 Cable			



3. Visual Inspection					
3.1. Workmanship					
3.1.1. Workmanship (Internal).	Examine the build paperwork for compliance to requirements	Pass/Fail	Observed/Measured Value	Inspected	Date
3.1.2. Foreign Objects / Debris.	Examine the build paperwork for compliance to requirements	Pass/Fail	Observed/Measured Value	Inspected	Date
3.1.3. Workmanship (External).	Examine all exterior surfaces and features of the monitor to assess general workmanship and quality.	Pass/Fail	Observed/Measured Value	Inspected	Date
3.2. General Finish					
3.2.1. Metal Finish.	Visually inspect metal finish for imperfections, chips or scratches.	Pass/Fail	Observed/Measured Value	Inspected	Date
3.2.2. Screen Finish	Inspect the monitor screen. There shall be no visible marks, scratches or other blemishes on the screen. All defects to be recorded. Refer to OIS/4.02 for protection screen defect allowances.	Pass/Fail	Observed/Measured Value	Inspected	Date
4. Overall Size and Mass					
4.1. Mass					
4.1.1. Monitor Weight.	Weigh the Monitor. Confirm mass is less than 10kg. (Record to two decimal place).	Pass/Fail	Observed/Measured Value	Inspected	Date



5. Input Power Operation					
		Pass/Fail	Observed/Measured Value	Inspected	Date
5.1. Power Range	Verify monitor operation at 110V AC @ 60Hz				
5.2. Power Range	Verify monitor operation at 220V AC @ 50Hz				

6. Video Operation					
		Pass/Fail	Observed/Measured Value	Inspected	Date
6.1. DVI-D	Confirmation of correct video operation through DVI-D input signal.				
6.2. HDMI	Confirmation of correct video operation through HDMI input signal.				
6.3. VGA	Confirmation of correct video operation through VGA input signal.				

7. Network Operation					
		Pass/Fail	Observed/Measured Value	Inspected	Date
7.1. RJ45	Authentication of network connectivity.				

8. Monitor Screen					
8.1. Pixel Defects	When powered on, verify the monitor screen conforms to panel defect specification in ISO_9241-307_2008(en). Record number of defective pixels	Pass/Fail	Observed/Measured Value	Inspected	Date
8.2. Display Luminance	Brightness of at least 250cd/m <sup>2</sup> validation.	Pass/Fail	Observed/Measured Value	Inspected	Date
8.3. Backlight Dimming	Fully dimmable backlight control from 100-0% with corresponding LED brightness control dimming.	Pass/Fail	Observed/Measured Value	Inspected	Date
8.4. OSD Functionality	The OSD functionality works in its entirety through the membrane keypad	Pass/Fail	Observed/Measured Value	Inspected	Date
9. Environmental Conditions					
9.1. Temperature Testing	High and low temperature environmental testing carried out against MIL-STD-810F, Method 501.4 and 502.4 with regards to NON-OPERATING and OPERATING functionality.	Pass/Fail	Observed/Measured Value	Inspected	Date
9.2. Humidity Testing	Humidity testing carried out against MIL-STD-810F, Method 507.4, Figure 507.4-1: max 40°C, Humidity %90, 5 cycle.	Pass/Fail	Observed/Measured Value	Inspected	Date
9.3. Drip Proof	Drip test carried out according to MIL-STD-108E, Paragraph 4.3. The monitor angled backwards at a 15° inclination shall withstand a min of 1000in <sup>3</sup> for a period of 12 mins.	Pass/Fail	Observed/Measured Value	Inspected	Date



9.4. Conducted Emissions (CE102)	Test carried out in accordance with MIL-STD-461E, Paragraph 5.5. Test range from 10kHz to 10MHz.	Pass/Fail	Observed/Measured Value	Inspected	Date
9.5. Radiated Emissions - Magnetic (RE101)	Test carried out in accordance with MIL-STD-461E, Paragraph 5.15. Test range 30Hz to 100kHz.	Pass/Fail	Observed/Measured Value	Inspected	Date
9.6. Radiated Emissions – Electric (RE102)	Test carried out in accordance with MIL-STD-461E, Paragraph 5.16. Test Range 10kHz to 18GHz.	Pass/Fail	Observed/Measured Value	Inspected	Date

**10. FAT Results Summary**

**10.1. Review of FAT Results (KME)**

10.1.1. FAT Results Review and Confirmation of FAT Status.	Review and Confirmation of Final Acceptance Test Results including supporting documentation  FAT Status must only be signed, stamped and dated by the authorised KME approval authority.	Pass/Fail	Comments	Initial	Stamp	Date

**10.2. Review of FAT Results (CUSTOMER)**

10.2.1. FAT Results Review and Confirmation of FAT Status.	Review Final Acceptance Test Results including supporting documentation  Must only be signed, stamped and dated by the authorised CUSTOMER approval authority, as defined in the Project Quality Plan.	Pass/Fail	Comments	Initial	Stamp	Date