

CERTIFICATE OF COMPLIANCE

Certificate Number 20150310-E204356
Report Reference E204356-A290-UL
Issue Date 2015-March-10

Issued to: AU OPTRONICS CORP
1 LI-HSIN RD 2
HSINCHU SCIENCE PARK
HSINCHU, 300 TAIWAN

**This is to certify that
representative samples of**

Component - Information Technology Equipment Including
Electrical Business Equipment

LCD Panel (LED Backlight), Models M238HANZZZZ,
M238HVNZZZZ (Where Z may be any alphanumeric
character or a dot or blank).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07,
Information Technology Equipment - Safety - Part 1:
General Requirements

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance
capabilities and are intended for use as components of complete equipment submitted for investigation rather
than for direct separate installation in the field. The final acceptance of the component is dependent upon its
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at www.ul.com/contactus



UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Component Recognition
CCN:	NWGQ2, NWGQ8 (Information Technology Equipment Including Electrical Business Equipment)
Product:	LCD Panel (LED Backlight)
Model:	M238HANZZZZ, M238HVNZZZZ (Where Z may be any alphanumeric character or a dot or blank)
Rating:	N/A
Applicant Name and Address:	AU OPTRONICS CORP 1 LI-HSIN RD 2 HSINCHU SCIENCE PARK HSINCHU 300 TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Winnie Su

Reviewed by: Allen Huang

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

TFT panel secured on metal chassis, and supplied by SELV.

Model Differences

- All Models are identical except for model designation.

Technical Considerations

- Equipment mobility : for building-in
- Connection to the mains : No direct connection
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : No direct connection
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class III (supplied by SELV)
- Considered current rating of protective device as part of the building installation (A) : N/A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 5000
- Altitude of test laboratory (m) : less than 2000 meters
- Mass of equipment (kg) : 2.28
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50 °C
- LEDs provided in the product are considered low power devices: Yes

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- The investigated Pollution Degree is: 2

- The following end-product enclosures are required: Mechanical, Fire
- The component is evaluated for use in SELV circuits.
- Safety Instruction should be considered in end-product evaluation
- To be determined in end product. The Maximum temperature (Tmax) for Panel Surface should not exceed 95 degree C.
- All related tests were considered in end-product.

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
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Earthing Continuity Test Exemptions - This test is not required for the following models:

All models.

Electric Strength Test Exemptions - This test is not required for the following models:

All models.

Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

Sample and Test Specifics for Follow-Up Tests at UL

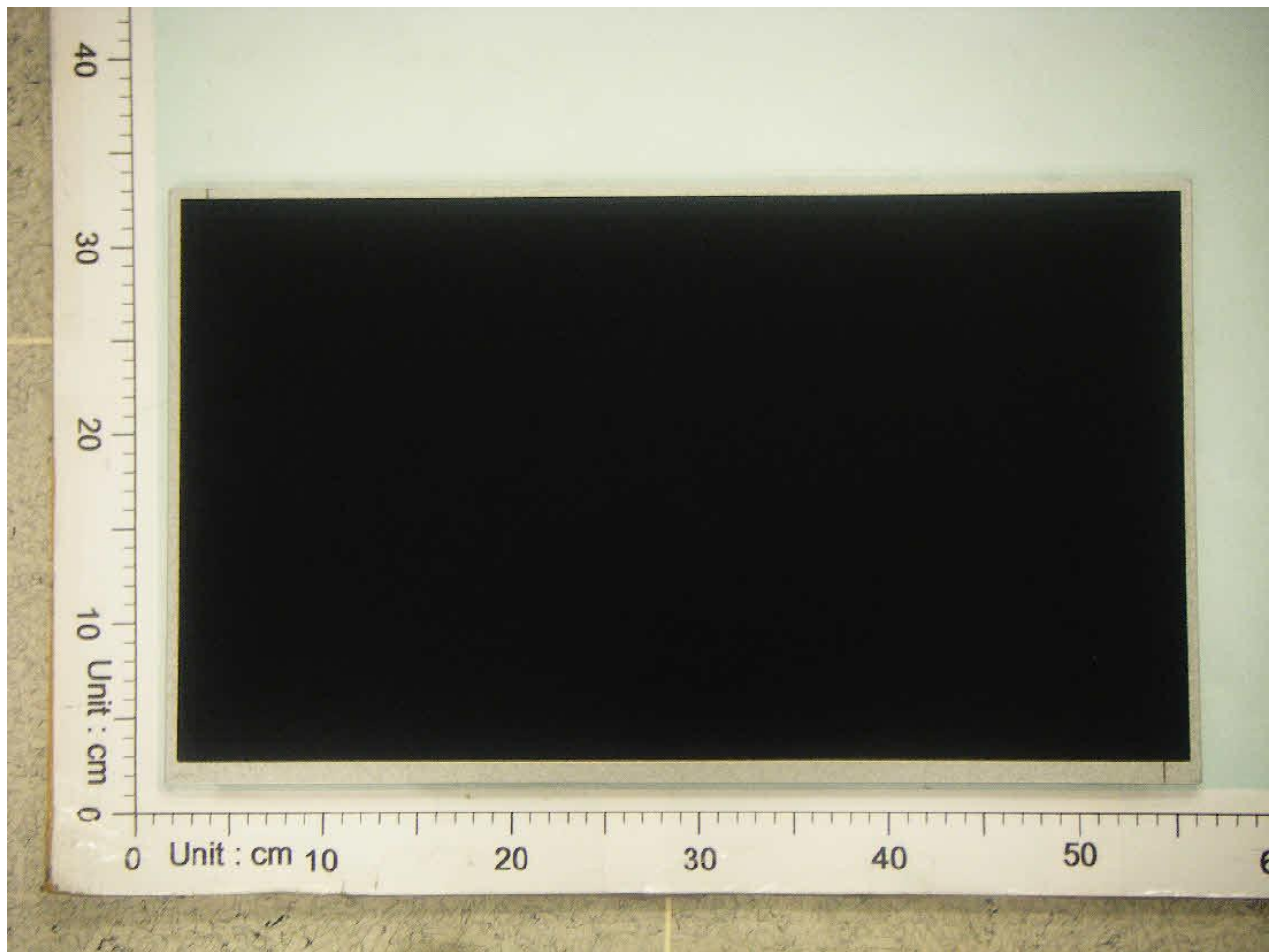
Model	Component	Material	Test	Sample(s)	Test Specifics
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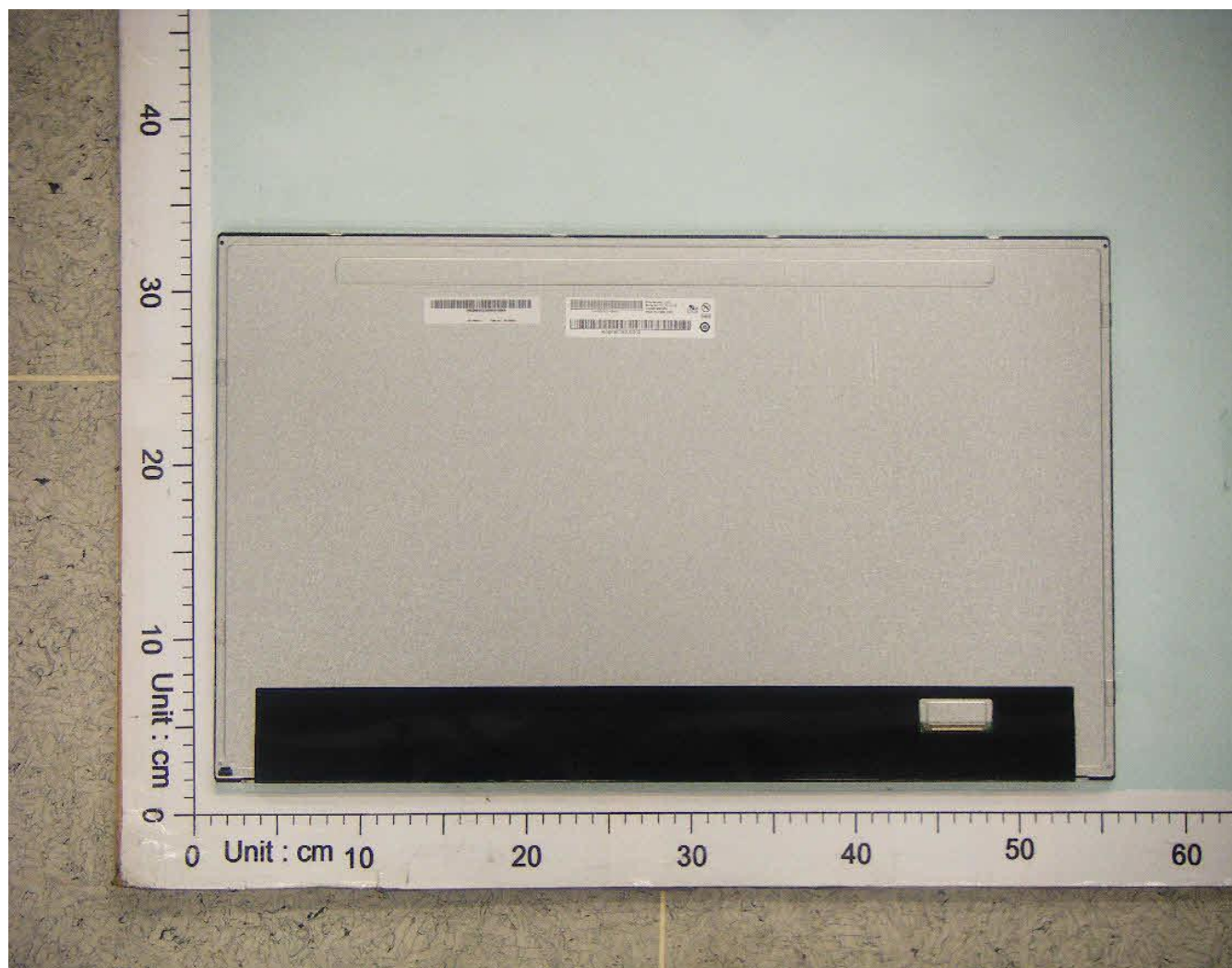
N/A

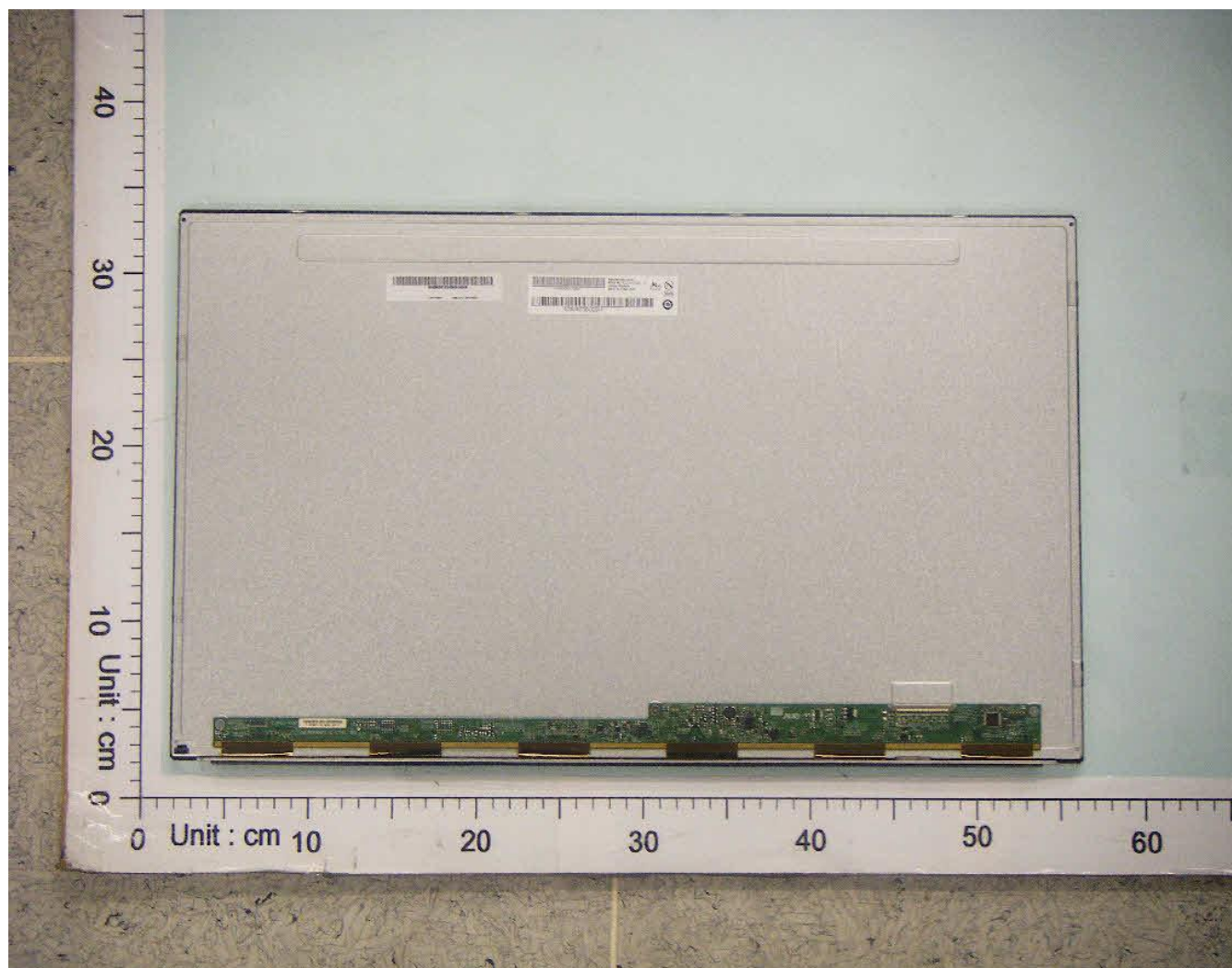
1.5.1	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Panel	Various	Various	TFT-LCD Type, 23.8 inch	--	--	
02. Enclosure/ Chassis	--	--	Steel Metal or Aluminum	--	--	
03. Internal Wirings (Optional)	Various	Various	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1; minimum 30 V, 105 degree C min.	AVLV2	UL, CUL	
04. Connectors and Receptacles (Secondary SELV circuits)	Various	Various	--	ECBT2, RTRT2	UL	
04a. Connectors and Receptacles (SELV circuits (Alternate)	Various	Metal/ Plastic	Copper alloy pins housed in bodies of plastic rated V-2 or VTM-2 min.	QMFZ2	UL	
05. Flexible PWBs	Various	Various	Min V-1 or VTM-1, 80 degree C for component mounted. Min V- 2 or VTM-2, 80 degree C for no component mounted.	ZPKX2 or ZPMV2 or QMFZ2 or QMTS2	UL	
06. Label	Various	Various	Min. 60 degree C.	PGDQ2 or PGJ12	UL	
07. Cover film for control board (Optional)	Various	Various	Minimum V-2 or VTM-2, 80 degree C.	QMFZ2	UL	
07a. Cover film for control board (Optional) (Alternate)	Various	Various	Flame retardant. Min 105 degree C.	OANZ2	UL	
07b. Cover film for control board (Optional) (Alternate)	Various	Various	Minimum V-2 or VTM-2.	OCDT2	UL	

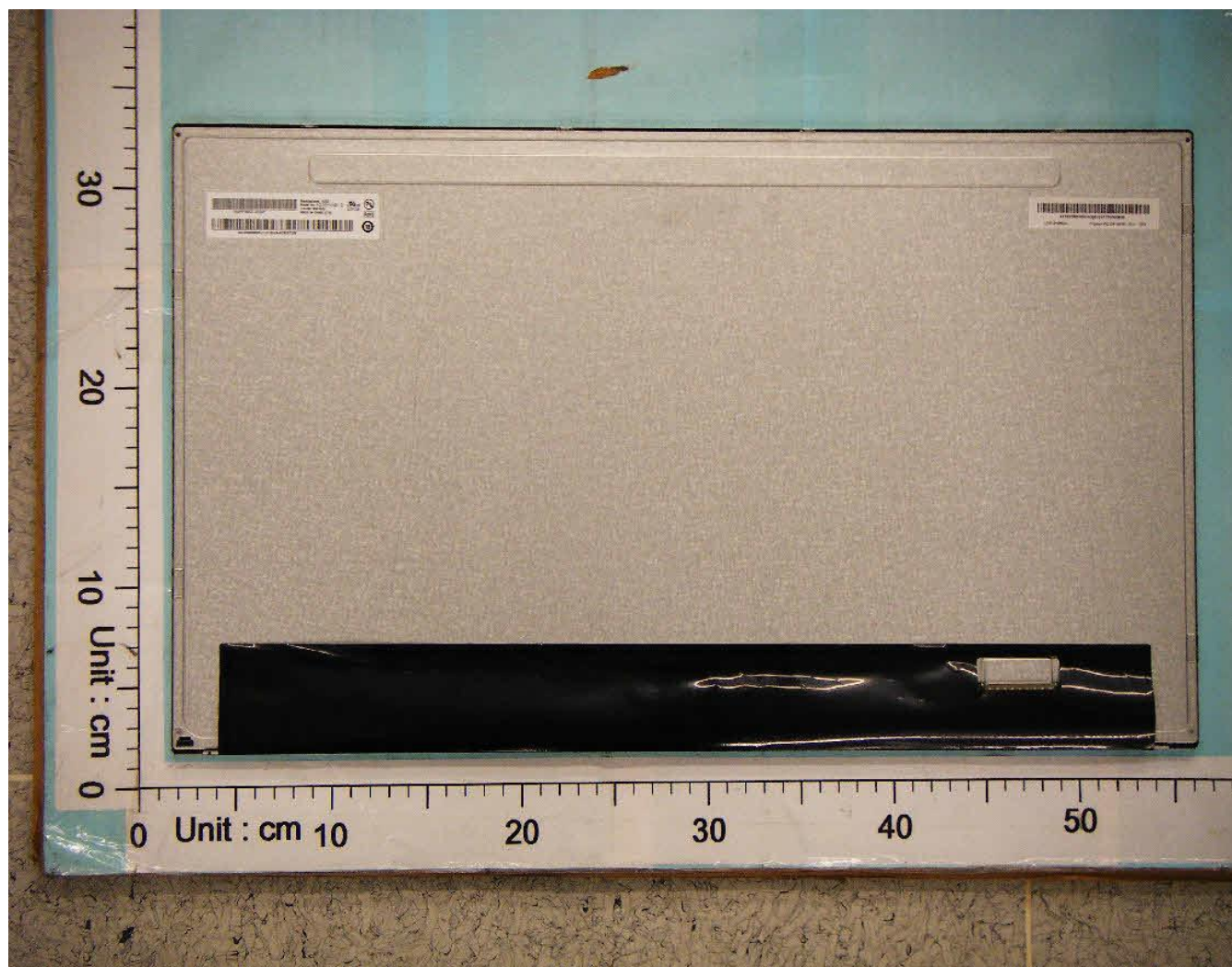
Enclosures

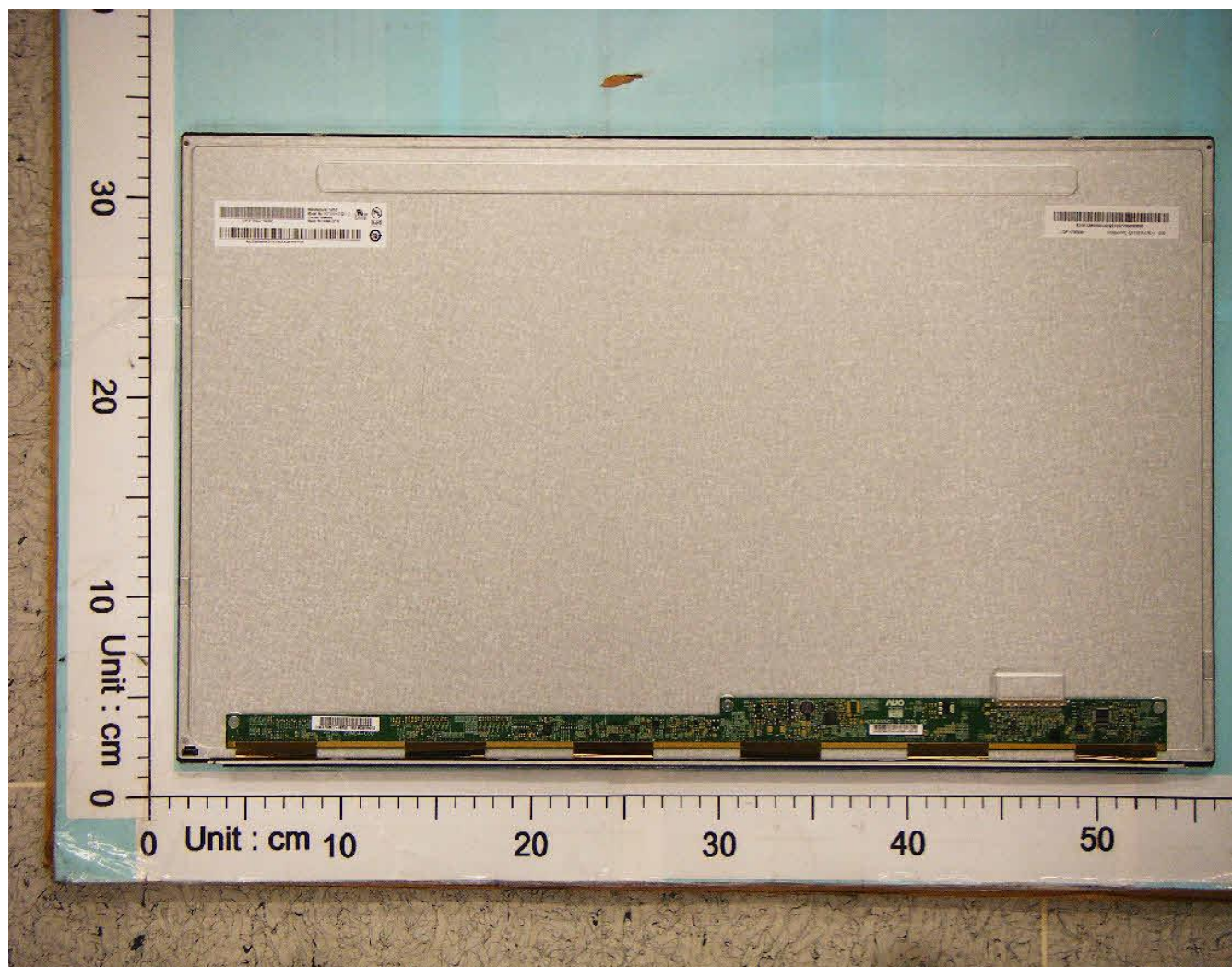
<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Front View
Photographs	3-02	Rear View
Photographs	3-03	Rear View - 1
Photographs	3-04	Rear View - Alternate control board (23M04-C00)
Photographs	3-05	Rear View - Alternate control board (23M04-C00) - 1











Issue Date: 2014-02-18

Page 1 of 2

Report Reference #

E204356-A290-UL

Revision Date: 2015-03-10

Test Record

Test Record No. 1

- No any tests were deemed necessary.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Attachment	2-01	CRD

Test Record No. 2

- No tests were considered necessary for LCD Panel (LED Backlight), employing alternate control board and new model M238HVNZZZZ (Where Z may be any alphanumeric character or a dot or blank).

- New model M238HVNZZZZ is identical to original model M238HANZZZZ except for model designation.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Attachment	2-02	CRD

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