

Prüfbericht-Nr.: Test Report No.:	10060943 001	Auftrags-Nr.: Order No.:	114063925	Seite 1 von 7 Page 1 of 7
Kunden-Referenz-Nr.: Client Reference No.:	12097358	Auftragsdatum: Order date:	20.04.2017	
Auftraggeber: Client:	Compal Electronics, Inc No.581, Ruiguang Rd., Neihsu District, Taipei City 11492 Taiwan			
Prüfgegenstand: Test item:	LCD Monitor			
Bezeichnung / Typ-Nr.: Identification / Type No.:	PA243W and PA243W-BK (NEC)			
Auftrags-Inhalt: Order content:	TÜV Rheinland test report			
Prüfgrundlage: Test specification:	Commission Regulation (EC) No 1275/2008 – implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment – Annex II – Stage I & II (see other aspects)			
Wareneingangsdatum: Date of receipt:	21.04.2017	See photographs embedded in this report.		
Prüfmuster-Nr.: Test sample No.:	A000544453-001			
Prüfzeitraum: Testing period:	03.06.2017 - 03.06.2017			
Ort der Prüfung: Place of testing:	TÜV Rheinland Taiwan Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Taiwan Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
 03.06.2017 Pei-Wen Chan / Project Handler Datum Name / Stellung Unterschrift Date Name / Position Signature		 20.06.2017 Derek Hsu / Technical Reviewer Datum Name / Stellung Unterschrift Date Name / Position Signature		
Sonstiges / Other:				
• LCD panel and LCD panel manufacturer: LM240WU9-SLC1 (LG Display)				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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1. Product Details

Unit Under Test (UUT)	LCD Monitor
Brand / Manufacturer name	NEC
Model / Type	PA243W and PA243W-BK (NEC)
Rated Voltage and Frequency	100-240Vac, 50/60Hz, 0.95-0.48A
Serial Number	Engineer Sample
Product Description.....	The product is provided with a switch button to turn on and turn off the product.

Copy of Nameplate - (according to the separate submitted document)



Remark:

1. The test results were obtained according to the submitted test sample.
2. No nameplate was marked on the submitted test sample.

2. Test Parameters

A. Test method: according to EN 50564:2011

B. Measuring Equipment

Equipment No.	Name of Equipment	Remarks	Next Cal. Date
TW-Ergo-127	Digital Power Meter	Voltech / PM1000+	Jul-17
TW-Ergo-117	Temperature Humidity Recorder	SK-L200THII alpha	Jul-17
TW-Ergo-062	Power Supply (AC Source)	Extech, model: 6250	N/A

Test Room

The ambient temperature was maintained at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ throughout the test.

Supply Voltage

The input voltage is within the specified voltage $\pm 1\%$ and the specified frequency $\pm 1\%$.

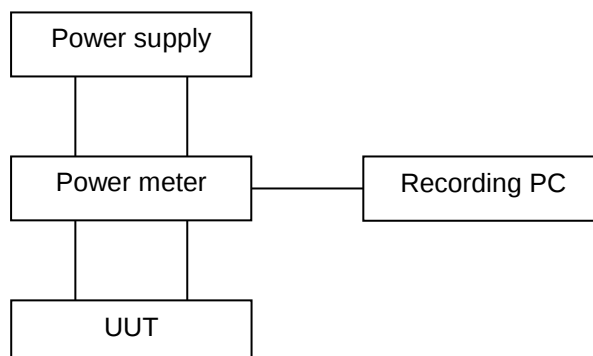
Total harmonic content of the supply voltage is not exceeding 2% (up to and including the 13th harmonic); harmonic content is defined as the root-mean-square (r.m.s.) summation of the individual components using the fundamental as 100%.

The ratio of peak value to r.m.s. value of the test voltage (i.e. crest factor) is between 1.34 and 1.49.

Power Measurement Accuracy

Measurements of power of 0.50 W or greater has an uncertainty of less than or equal to 2 % at the 95 % confidence level. Measurements of power of less than 0.50 W has an uncertainty of less than or equal to 0.01 W at the 95 % confidence level.

Test Set-up



C. Measured Data

Date of test performed	08.06.2017
Ambient temperature	25 °C
Test Voltage and frequency	AC 230V, 50 Hz
Total harmonic distortion of the electricity supply system.....	0.18%
Description of how the appliance mode was selected or programmed.....	Off-mode and Standby mode can be selected.
Sequence of events to reach the mode where the equipment automatically changes modes	a) To press the switch button, the UUT will go into Off mode. b) Disconnected the Displayport cable, the UUT will go into Standby mode.

Stage I

Clause	Requirement	Result – Remark	Verdict
1	Stage I – one year after the Regulation has come into force		P
1(a)	Power Consumption in any off-mode condition: <= 1W	Test result of off-mode: <u>0.17</u> W	P
1(b)	Power Consumption in standby mode(s): (i) In any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function <= 1W; (ii) In any condition providing only information or status display, or providing only a combination of reactivation function and information or status display <= 2W	Standby-mode: (i) <u>0.46</u> W Measurement method: EN 50564:2011 ☐ clause 5.3.2 ☒ clause 5.3.3 ☐ clause 5.3.4 (ii) <u>N/A</u> W Measurement method: EN 50564:2011 ☐ clause 5.3.2 ☐ clause 5.3.3 ☐ clause 5.3.4	P
1(c)	Availability of off mode and/or standby mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.	☒ Yes ☐ No Off mode and Standby mode provided ☐ Off/standby mode is inappropriate for the intended use of equipment	P

Stage II

Clause	Requirement	Result – Remark	Verdict
2	Stage II – four years after the Regulation has come into force		P
2(a)	Power Consumption in any off-mode condition: $\leq 0.5W$	Test result of off-mode: <u>0.17 W</u>	P
2(b)	Power Consumption in standby mode(s): (i) in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function $\leq 0.5W$; (ii) In any condition providing only information or status display, or providing only a combination of reactivation function and information or status display $\leq 1W$	Standby-mode: (i) <u>0.46 W</u> Measurement method: EN 50564:2011 ☐ clause 5.3.2 ☒ clause 5.3.3 ☐ clause 5.3.4 (ii) <u>N/A W</u> Measurement method: EN 50564:2011 ☐ clause 5.3.2 ☐ clause 5.3.3 ☐ clause 5.3.4	P
2(c)	Availability of off mode and/or standby mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.	☒ Yes ☐ No ☐ Off/standby mode is inappropriate for the intended use of equipment	P
2(d)	Power Management: When equipment is not providing the main function, or when other energy-using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: — standby mode (≤ 0.5 or $1 W$), or — off mode ($\leq 0.5W$), or — another condition (≤ 0.5 or $1 W$)	☒ Yes <u>0.46 W</u> Time taken to automatically reach standby/off mode, or another condition: <u>within 15 mins.</u> ☐ No ☐ A power management function is inappropriate for the intended use	P

Photo of Unit Under Test (UUT)

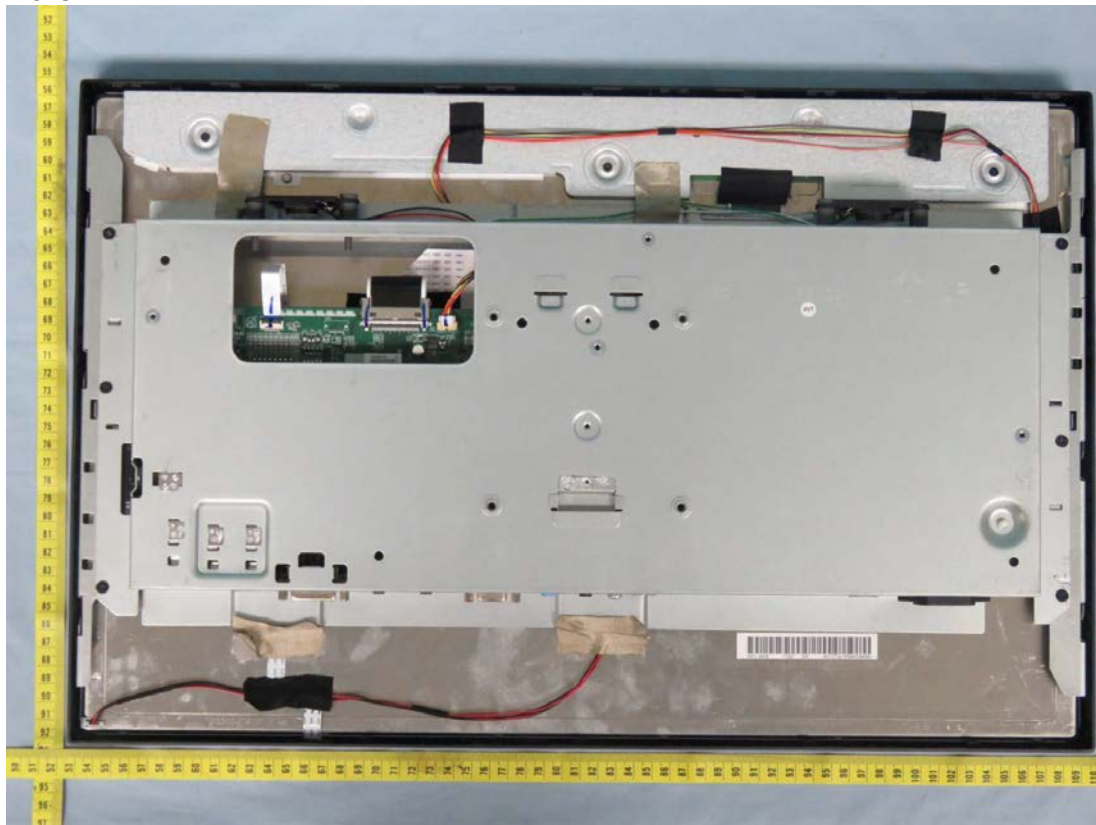
Pic. 1



Pic. 2



Pic. 3



Pic. 4

