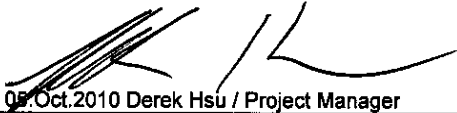


Prüfbericht - Nr.: 10030185 001		Seite 1 von 4	
<i>Test Report No.:</i>		Page 1 of 4	
Auftraggeber: <i>Client:</i>	Compal Electronics, Inc. No. 581, Ruiguang Rd., Neihu District, Taipei City 11492 Taiwan		
Gegenstand der Prüfung: <i>Test item:</i>	LCD Monitor		
Bezeichnung: <i>Identification:</i>	L190NY	Serien-Nr.: <i>Serial No.:</i>	Engineering Sample
Wareneingangs-Nr.: <i>Receipt No.:</i>	TPE55836	Eingangsdatum: <i>Date of receipt:</i>	23.Aug.2010
Prüfort: <i>Testing location:</i>	TÜV Rheinland Taiwan Ltd. 7F, No.2, Min Chuan E. Rd., Sec. 3, Taipei 104, Taiwan, R.O.C.		
Prüfgrundlage: <i>Test specification:</i>	ENERGY STAR® Displays Eligibility Criteria (Ver. 5.0)		
Prüfergebnis: <i>Test Result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test item passed the test specification(s).		
Prüflaboratorium: <i>Testing Laboratory:</i>	TÜV Rheinland Taiwan Ltd. Ergonomics and Optics Laboratory 7F, No.2, Min Chuan E. Rd., Sec. 3, Taipei 104, Taiwan, R.O.C.		
geprüft/ tested by:		kontrolliert/ reviewed by:	
 05.Oct.2010 Derek Hsu / Project Manager		 05.Oct.2010 Pei-Wen Chan / Project Manager	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
Sonstiges / Other Aspects:			
Project order:		113137644	LCD-Modul / LCD-Panel: LM190E09-TLB1
Per application letter dated:		01.Sep.2010	(LG Display)
Above shown model(s) will be market under Brand Name:		NEC	
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(all) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet		Abbreviations: P(ass) = passed F(all) = failed 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. <i>This test report relates to the a. m. test sample. Without permission of the test center this report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

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Verwendete Meßgeräte/Prüfmittel

Messung / measurement	Geräte- Ident.-Nummer equipment ident. Number	nächste Kalibrierung / next calibration
Voltech PM1000+ Digital Power Meter	TW-Ergo-126	Mar-11

Measurement Uncertainty

The reported measurement uncertainty is estimated based on CIPM:
GUIDE TO THE EXPRESSION OF UNCERTAINTY IN MEASUREMENT
(Corrected and Reprinted 1993)

Energy SavingTime = ± 0.2 sPower (W) = $\pm 2\%$

Test sample set up and configuration

VDU: LCD Monitor

Identification: L190NY

Manufacturer: Compal Electronics, Inc.
No. 581, Ruiguang Rd., Neihu District, Taipei City 11492 Taiwan

LCD brand/model: LG Display / LM190E09-TLB1

LCD S/N and Rev.: Ver. 0.0

Surface treatment: Hard coating (3H), Anti-glare treatment of the front polarizer

Test mode: 1280 x 1024 (H x V) Font: Arial 12pt
Fv: 60 Hz Fh: 64 kHz Polarity: Positive

Test luminance level Automatic Brightness Control enabled by default

Brightness setting: Automatic Brightness Control enabled by default

Contrast setting: Automatic Brightness Control enabled by default

Input port used: VGA

Ambient Condition: Room temperature: 23°C Relative humidity: 45%

Power Rating: 100-240 Vac; 50/60 Hz; 0.60-0.35A Class I

AC-Adapter: --

Pivot/Non-Pivot: Pivot Display

Remark: LED backlight
--

3) Energy-Efficiency Criteria:

A. Energy consumption

ok	fail	N/A
☒	☐	☐

Mandate: The FPD shall meet the following requirement levels for maximum power consumption, in accordance with **ENERGY STAR® Program Requirements for Displays Eligibility Criteria (Version 5.0)**:

diagonal screen size	19 inch
resolution in Megapixels	1.3 MP
ON-Mode	≤ 23.57 Watt
Sleep mode (low power)	≤ 2 Watt
Standby (OFF-mode)	≤ 1 Watt

Remark: Displays with Automatic Brightness Control enabled by default

$$P_{ot} = (0.8 \cdot P_h) + (0.2 \cdot P_l)$$

P_h : ambient light level is 300 lux

P_l : ambient light level is 0 lux

Supply Voltage / Frequency	230V / 50Hz	115V / 60Hz
ON-Mode	21.8 Watt	21.8 Watt
Sleep mode (low power)	0.45 Watt	0.39 Watt
Standby (OFF-mode)	0.39 Watt	0.36 Watt

4. Test Procedures:

ok	fail	N/A
☒	☐	☐

Mandate: Number of Units Required for testing:

If the steady-state power consumption of the UUT is greater than 85% of the ENERGY STAR qualification limit in any of the three operating modes, two additional units of the same model shall be tested.

On-Mode within 85%	20.04~23.57	W
Sleep-mode within 85%	1.7~2	W
OFF-Mode within 85%	0.85~1	W

Mesurement results for two additional unit:

Supply Voltage / Frequency	230V / 50Hz	115V / 60Hz
ON-Mode	21.7 Watt	21.7 Watt
Sleep mode (low power)	0.45 Watt	0.36 Watt
Standby (OFF-mode)	0.37 Watt	0.3 Watt
Supply Voltage / Frequency	230V / 50Hz	115V / 60Hz
ON-Mode	22.6 Watt	22.8 Watt
Sleep mode (low power)	0.46 Watt	0.37 Watt
Standby (OFF-mode)	0.4 Watt	0.31 Watt