

# Type Approval Certificate



This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 61 227 - 13 HH

Company Mariner Systems (UK) Ltd.

Oaklands Park  
Wokingham, Berkshire RG41 2FD, UNITED KINGDOM

Product Description Monitor  
23" Display - LED Backlit Monitor

Type HP EliteDisplay E231 23-inch LED Backlit Monitor  
with Mariner Kit MS1370, MS1375 or MS1380

Environmental Category C; EMC1

Technical Data /  
Range of Application Viewable Image Area (diagonal): 58,42 cm. (23 inch) widescreen  
Aspect Ratio: 16:9  
Input Power : 90 - 265 V/AC; 45 - 63 Hz  
Typical Power Consumption : 33 W (max.36 W)  
Power Saving Mode : 0.5 W  
Horizontal Frequency : 24 - 94 kHz ; Vertical Frequency : 50 - 76 Hz  
Input connectors : VGA (analog), DVI-D, DisplayPort (HDCP support on DVI-D and DisplayPort)  
USB: Integrated USB 2.0 hub with (2) Downstream and (1) Upstream ports  
Resolution: 1920 x 1080 @ 60 Hz  
Contrast Ratio : 1000:1; Dynamic Contrast Ratio : 5,000,000:1  
Maximum Pixel Clock Speed : 200 MHz (VGA)  
Modification kit : Mariner Kit Options  
MS1370 Desk Mount Configuration  
MS1375 Wall Mount Configuration or  
MS1380 Console Mount Configuration

Test Standard Guidelines for the Performance of Type Approvals VI-7-2 Edition 2012;  
IEC 60945 fourth Edition

Documents Test reports : TL13067-ENV dated 20-08-2013 and TL13067-EMC dated 19-08-2013  
Technical Specifications Monitor DA - 14552 Version 6 dated 12-07-2013; Drawing  
MS1370\_A, MS1375\_A and MS1380\_A ASSEMBLY Issue 1 dated 06-08-2013

Remarks None

Valid until 2018-10-13

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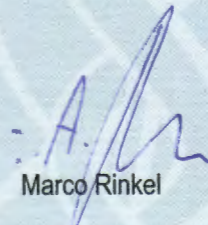
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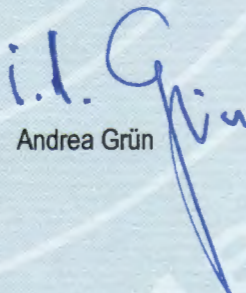
Hamburg, 2013-10-14

Type Approval Symbol



**Germanischer Lloyd**

  
Marco Rinkel

  
Andrea Grün

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".