



# Type Approval Certificate

Germanischer Lloyd

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.	1181010 HH
Company	Böning Automationstechnologie GmbH & Co. KG Am Steenöver 4 27777 Ganderkesee, GERMANY
Product Description	TFT Display / Panel PC
Type	AHD 1019M, AHD 919
Environmental Category	C, EMC1
Technical Data / Range of Application	19" viewable colour TFT-display with backlight dimming and operating keys, degree of protection IP 22 (IP 44 for front side). Display: Pixel Number: 1310720 Pixel, Colours: 16.2 Millions Response time: typical 5ms, Contrast: 900:1 Light intensity: 1000cd/m <sup>2</sup> , Viewable angle: 80degree, CR>10 Resolution: 1280x1024; DVI-Input: Min. Resolution 640x350 Pixel w. Refresh Rate 70Hz Max. Resolution 1920x1200 Pixel w. Refresh Rate 60Hz Typ. Resolution 1280x1024 Pixel w. Refresh Rate 60Hz Up/Down-Scaling to 1280x1024 Pixel EN 60945 Salt mist test: passed Storage temperature: -50 degree celsius Interfaces: CAN, DVI Power supply: 24V DC (18V to 32V).
Test Standard	Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003.
Documents	Test reports: Zeiss P-QK/EMV 063/2009; EMV Services 09/9062-5, paconsult 09-2736, paconsult 09-2799; paconsult 10-2961.
Remarks	Supplementary approval required depending on the application.
Valid until	2014-12-01
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File No.	I.B.05
Hamburg, 2010-09-16	

Type Approval Symbol



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Marco Rinkel

Jens Dietrich

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".