



CERTIFICATE

Equipment: medeaLAB Film Quality Testing System
Type: MFTS 1.0

Description: The medeaLAB Film Quality Testing System is an optoelectronic surface inspection system for plastic films using a high-resolution line scan camera and fibre optics illumination technology. It permits real-time defect analysis on transparent flat and blow films.

Components:

MEDEA AV MFTS Software
HEWLETT PACKARD ProLiant Server PC
MATROX Helios CameraLink Framegrabber
DALSA Piranha II line scan camera with NIKKOR 60 mm f-mount lens
SCHOTT DCR III 150 W light source with fibre optics (152 mm output width)
HOHNER AWI58H-0/8000 AS 41 RF rotary encoder

Manufacturer:

Medea AV Multimedia und Software GmbH
Address:
Am Weichselgarten 23
D-91077 Erlangen
Germany

Medea AV Multimedia und Software GmbH certifies that the medeaLAB Film Quality Testing System (MFTS), Version 1.0.0.8, is compliant with the following requirements:

Resolution:

Scan line pixel size: 10 x 10 μm
Nominal optical resolution: 25 μm (100 mm image width)
Detection resolution (min. defect size): 50 μm (100 mm image width)

Speed:

Max. line rate: 36.2 kHz
Min. film speed: 1.0 m / min
Max. film speed: 54.3 m / min

All components comply with the requirements of the CE standards.

The system may only be used together with GÖTTFERT® Blow Film Unit 300 or GÖTTFERT® Flat Film Unit 300.

The applicable protection provisions must be complied with.

Medea AV Multimedia und Software GmbH

Erlangen, February 1st, 2008

A handwritten signature in black ink, appearing to read 'Kurt Vogel'.

Dr. rer. nat. Kurt Vogel
Managing director