AFJ INSTRUMENTS

AFJ VDH 30 Test System

for Human Exposure Measurements to Luminaries

The Van Der Hoofden test head allows to determine the human exposure to radiation caused by luminaries into the frequency range from 20kHz to 10MHz. The measurement is based on IEC 62493. Through different ways of coupling between luminaries and humans, a level of exposure of a person to electromagnetic fields can be derived. One part of the exposure is based on capacitive coupling between lighting equipment and person. This induces current densities that must be measured and evaluated using an EMI receiver and a Van Der Hoofden test head.

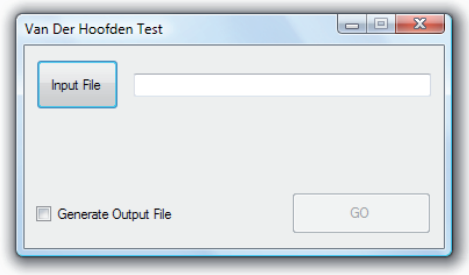
VDH 30 consists of electrically conductive sphere with 210mm diameter, connection line of 300mm length, protection network for the EMI receiver and wooden tripod.

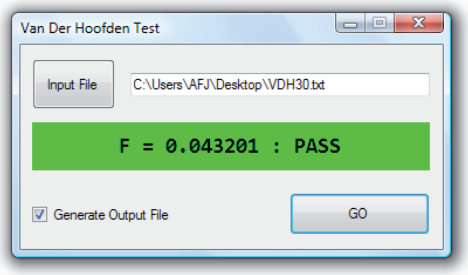
The EMI receiver measures a voltage across 50Ω. It must be connected to the N connector of the protection network. To determine the compliance of a luminary to the standard the measured voltages must be converted into induced current densities. The measured densities must be expressed in relation to the allowed densities and they must be summed up. The result is a factor called F.
A DUT is compliant if F does not exceed 0.85.
These calculations can be done with the software provided with the equipment.

Easy EMC

VDH 30

SOFTWARE





TECHNICAL SPECIFICATIONS

Design:	Fully compliant to IEC 62493 standard
Frequency range:	20kHz÷10MHz
Output impedance:	50Ω
Connector:	N female
Operating temperature:	0° to 45°C
Storage temperature:	-20° to 70°C
Diameter of the sphere:	210mm
Weight:	8kg
Tripod:	Wooden support with height adjustment

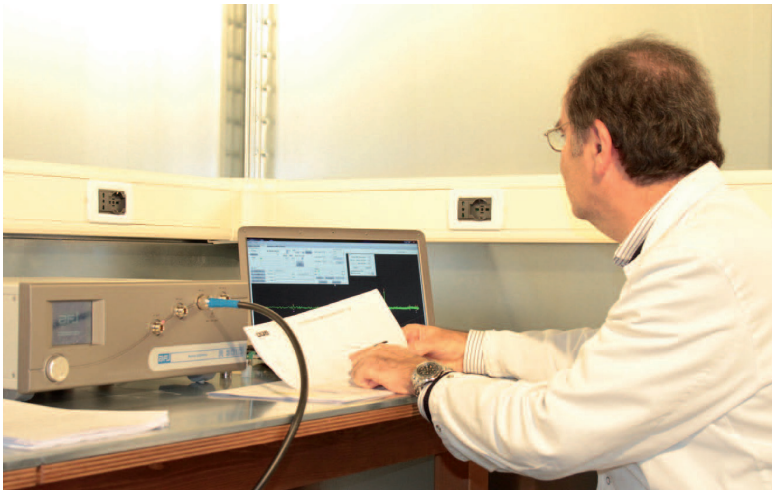
Subject to change without notice.

RELATED PRODUCTS

AFJ EMI RECEIVERS

FFT 3010 f=9kHz÷30MHz

R3030 f=9kHz÷300MHz



AFJ INSTRUMENTS

AFJ INSTRUMENTS SRL
Via F.lli Lorenzetti 6 - 20146 Milan – Italy
Phone +39 02 91434850
sales@afj-instruments.com

www.afj.it
www.afj-emv.com
www.afj-russia.com
www.afj-china.com
www.afj-instruments.com