


 Interim
 Final

INSPECTION REPORT Nr: 455

BV Job nr: IDD.103.11.D21

PROJECT: CE Technical Support for Infrared Illuminator , white light illuminator According To 2006/42/EC Low Voltage Directive, Electromagnetic Compatibility Directive 2004/108/EC

Ref: IDD.103.11.D21

BV Client: Universal Elektronik Teknoloji Ltd. Şti.

P/o nr:
(client to BV)

Manufacturer: Universal Elektronik Teknoloji Ltd. Şti.

P/o nr:
(client to Manufacturer)

Inspection requested by: Universal Elektronik Teknoloji Ltd. Şti.

SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY
CE Technical Support for Infrared Illuminator, white light illuminator according to 2006/95/EC Low Voltage Directive and Electromagnetic Compatibility Directive 2004/108/EC	<i>GROUP</i>	<i>1</i>

DOCUMENTS OF REFERENCE : See continuation sheet for additional documents: Yes No

Title	Reference n°	Rev.	Approved by	Date
2006/95/EC Low Voltage Directive				2006
2004/108/EC EMC Directive				2004

INSPECTIONS :

Results of inspection : Satisfactory Unsatisfactory

Inspection place & Date or Period:
Istanbul / 19.04.2011

Non Conformities Reports (NCR):

NCR's issued during reported period :

Stage of inspection :

- Before manufacturing
- During manufacturing
- Final
- Packing

List of outstanding NCR's :

Kind of inspection:

- Pre-inspection meeting
- Witnessing tests
- Final inspection
- Document review
- Expediting & vendor assessment
- Packing
(for details see continuation sheet)

Main Conclusions & Remarks: (for details see continuation sheet)

UNI 100 and UNI 200 including all angles, and wavelengths have been examined together with the technical file. The results comply with the requirements of directives.

Next visit scheduled: N/A

Stamping:

No


 Interim
 Final

INSPECTION REPORT Nr: 455

(continued)

BV Job nr: IDD.103.11.D21

Universal Company has been visited by Bureau Veritas Inspector Bulent SUZER for CE Marking technical support of below directives at 19.04.201. Observations are below;

BV Scope is consultancy of Preparing Technical File, Reviewing Test Reports and Application and Settlement of CE Directive's Rules.

UNI 100 and UNI 200 including all angles, and wavelengths comply with the requirement of standards and directives and CE rules.

Standards :

EN 55015:2009 Limits and Methods of Measurement of Radio Disturbance Characteristics of Electrical Lighting and Similar Equipment

EN 61547:2010 Equipment for General Lighting purposes – EMC Immunity Requirements

1.2. Emission Tests

Standard	Test Type
EN 55015:2009	Conducted Emission
EN 61000-3-2:2004	Harmonic Current Emission

1.3. Immunity Tests

Standard	Test Type
EN 61000-4-2:2005	Electrostatic Discharge (ESD)
EN 61000-4-3:2006	Radiated Electromagnetic Field Immunity
EN 61000-4-4:2006	Electrical Fast Transient / Burst Immunity
EN 61000-4-5:2007	Surge Immunity
EN 61000-4-6:2008	Conducted RF Disturbance Immunity
EN 61000-4-11:2006	Voltage Dips, Short Interruptions Immunity

Conducted emission / Radiated emission

EN55022:2006+A1:2007		Class B
EN55011:2007+A2:2007 (Group 1)		Class B
EN61000-6-3:2007		
EN61000-3-2:2006	Harmonic current	Class A
EN61000-3-3:2008	Voltage flicker	
EMS (Electro-Magnetic Susceptibility)		
EN55024:1998+A1:2001+A2:2003	EN61204-3:2000	EN61000-6-1:2007

EN61000-4-8:1993+A1:2001	Magnetic field immunity	Level 2	3A/m
EN61000-4-11:2004	Voltage dip, interruption		
ENV50204:1995	Keyed carrier immunity	Level 2	3V/m 900MHZ

Low Voltage Directive (2006/95/EC):
IEC60950-1:2005
EN60950-1:2006

Directives : LOW VOLTAGE DIRECTIVE 2006/95/EC , ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 2004/108/EC

Technical File, which prepared with the technical support of BV, has been checked and examined.

Drawings (main and detailed)	Drw 001-002
Details of assembly	Drw 001-002
Calculation data sheet	NA
Design specification	EN 61547:2010
Qualification of welding and other processes (for permanent assembly)	NA
Qualification of welders and other operators (for permanent assembly)	NA
Qualification of NDT personnel	NA
Analysis of hazards	Indicated at user manuals of UNI 100 , UNI 200
Operating instructions	UM100IRT , UM100IRE , UM200IRT,UM200IRE ,UM100WT ,UM200WE
Typical form of declaration of conformity	18 .04.2011 dated DoC
Drawing of data plate (or marking)	Doc002
Material specification	EN 10204 2.2 , EN 60529 , EN 50262
Nature of mill certificate	EN 10204 2.2
Inspection plan (including witness points and hold points)	DOC 003

2006/95/EC Low Voltage Directive :

The Equipments have been tested according to the EN 60950:1 2006. The Results were satisfactory. PSE certificate no : 97-0316

2004/108/EC EMC Directive:

The equipments have been tested according to the below table. The results were satisfactory. The tests have been performed by Eldaş A.Ş. The test report number is EMC 040.

1.1. Yayılım Deneyleri (Emission Tests)		
Standart <i>Standard</i>	Test Adı <i>Test Type</i>	Sonuç <i>Result</i>
TS EN 55011:2007 Grup 1 Sınıf A	Bağlantı Ucu Bozulma Gerilimi <i>Conducted Emission</i>	Geçti <i>Pass</i>
	Elektromanyetik Yayılım Bozulması <i>Radiated Emission - electromagnetic field</i>	Geçti <i>Pass</i>

1.2. Bağışıklık Deneyleri (Immunity Tests)			
Standart <i>Standard</i>	Test Adı <i>Test Type</i>	Sağlanan Performans Kriteri <i>Achieved Performance Criteria</i>	Sonuç <i>Result</i>
TS EN 61000-4-2:2005	Elektrostatik Boşalmaya Bağışıklık <i>Electrostatic discharge (ESD)</i>	B	Geçti <i>Pass</i>
TS EN 61000-4-3:2006	Yayılan EM Alanlara Karşı Bağışıklık <i>Radiated Immunity EM fields</i>	A	Geçti <i>Pass</i>
TS EN 61000-4-4:2006	Elektriksel Hızlı Geçici Rejim <i>Electrical fast transient (Burst)</i>	B	Geçti <i>Pass</i>
TS EN 61000-4-5:2007	Ani Yükselmelere Bağışıklık <i>Surge Immunity</i>	B	Geçti <i>Pass</i>
TS EN 61000-4-6:2008	RF İletilen Bozulmaya Bağışıklık <i>Conducted RF Disturbance</i>	A	Geçti <i>Pass</i>
TS EN 61000-4-11:2006	Gerilim Çukurları, Kısa Kesintiler, Gerilim Değişimleri ile İlgili Bağışıklık <i>Voltage dips, short interruptions and voltage variations.</i>	%30 Azalma (reduction) B	Geçti <i>Pass</i>
		%60 Azalma (reduction) C	
		%95 Azalma (reduction) C	



General View of UNI 100 and UNI 200.



The Power supply has CE Marking and complies with the related standard. The related documents have been examined by BV Inspector.



The photocell switch is the optional accessory that has a document to comply with the directives.

ANNEXES Yes (Total number of pages: ...) No

Inspected by:

Name: Bülent SÜZER

Signature:



Date of issue: 19.04.2011

Inspection centre: Bureau Veritas Turkey

Checked by:

Name: Dilek YALÇIN

Signature:

Distribution: CLIENT

MANUFACTURER