



the standard in safety

Underwriters
Laboratories

MS. SACHKA ACHEY, QUALITY ANALYST ASSISTANT
MICROSCAN SYSTEMS INC
700 SW 39TH ST
RENTON WA 98057

Date: 05/27/2010
Subscriber: 660876001
PartySite: 142523
File No: E137142
Project No: 10SR5954780
PD No: 10M26532
Type: R
PO Number:

Subject: UL Certification Documents For Applicant

This authorization is effective from the date of this Notice and only for products produced at the manufacturing location(s) specified on the current Authorization Page. Records in the Follow-Up Services Procedure covering the product are identified on the Addendum and attached.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in compliance and continued use of the UL Mark may be withdrawn. UL may elect to withdraw use of the UL Mark if the Applicant or Manufacturer fails to comply with UL's requirements, including ongoing compliance of the product under UL's Follow-Up Services.

The contents of this Letter are intended solely for the use of UL, the Applicant and specified Manufacturers. The opinions and findings of UL represent its judgment given with due consideration to the limitations of practical operation in accordance with UL's objectives and purposes.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages, arising out of or in connection with the use or reliance upon the contents of this letter to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL.

This material is provided on behalf of Underwriters Laboratories Inc.(UL) or any authorized licensee of UL.

The following material resulting from the investigation under the above numbers is enclosed.

<u>Document</u>	<u>Volume</u>	<u>Report Reference</u>	<u>Status</u>	<u>Date</u>
UL Test Report	XI	E137142-A12-UL-1	Correction	05/27/10

Please file revised Authorizations, Indices, and General Inspection Instructions in place of material of like identity. New Test Reports should be filed immediately following the last Test Report. Amendments or Corrections should be filed immediately before the Test Report to which they relate. Re-issued Test Reports should be filed immediately before all material related to the Test Report that it replaces.

NOTE: Manufacturers receive only the following sub-sections of the Applicant's complete Test Report, where applicable: Cover Page, Specific Inspection Criteria (BA through BE), Specific Technical Criteria (through section CF), Critical Components table, and Enclosures containing image supplements. Manufacturers do not receive Test Report information related to standard clause compliance or testing results.

NOTE: Manufacturers that require an Initial Product Inspection (IPI) have received their copy of the Follow-Up Service Procedure, but are instructed they are not allowed to ship products bearing the UL Mark until their UL Representative has successfully conducted the Initial Production Inspection.

Please review this material and report any inaccuracies to our Customer Service Professional, PHONE: 1-877-UL Helps (877-854-3577), FAX: 1-360-817-6000, E-MAIL: CEC@us.ul.com, referring to the above Project and/or PD Numbers.

This material is provided on behalf of Underwriters Laboratories Inc.(UL) or any authorized licensee of UL.

c: SCL File

COVER PAGE FOR TEST REPORT

Product Category:	Information Technology Equipment Including Electrical Business Equipment
Product Category CCN:	NWGQ, NWGQ7
Test Procedure:	Listing
Product:	Bar Code Scanner
Model/Type Reference:	MS-890
Rating(s):	Voltage: 10-28 Vdc, 25 W (Provided for Reference Only)
Standards:	UL 60950-1, 1st Edition, 2007-10-31 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-03, 1st Edition, 2006-07 (Information Technology Equipment - Safety - Part 1: General Requirements)
Applicant Name and Address:	MICROSCAN SYSTEMS INC 700 SW 39TH ST RENTON WA 98057 UNITED STATES
This Report includes the following parts, in addition to this cover page: <ol style="list-style-type: none">1. Specific Technical Criteria2. Critical Components	

Issue Date: 2007-07-11
Correction 1 2010-05-27

Page 2 of 2

Report Reference #

E137142-A12-UL-1

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

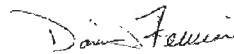
Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Test Report By:



Kevin F. Tang
Staff Engineer
Underwriters Laboratories Inc.

Reviewed By:



David Feusier
Staff Engineer
Underwriters Laboratories Inc.

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition Information technology equipment - Safety- Part 1: General Requirements	
Report Reference No.....	E137142-A12-UL-1
Compiled by	Kevin F. Tang
Reviewed by	David Feusier
Date of issue	2007-07-11
Standards	UL 60950-1, 1st Edition, 2007-10-31 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-03, 1st Edition, 2006-07 (Information Technology Equipment - Safety - Part 1: General Requirements)
Test procedure	Listing
Non-standard test method	N/A
Test item description	Bar Code Scanner
Trademark	None
Model and/or type reference	MS-890
Rating(s)	Voltage: 10-28 Vdc, 25 W (Provided for Reference Only)

Particulars: test item vs. test requirements

Equipment mobility	movable (may be mounted, Stationary)
Operating condition	continuous
Mains supply tolerance (%)	No direct connection
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	Class III (supplied by SELV)
Mass of equipment (kg)	1.58 kg
Protection against ingress of water	IP X0

Possible test case verdicts:

- test case does not apply to the test object : N / A
- test object does meet the requirement : Pass
- test object does not meet the requirement : Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

Issue Date: 2007-07-11

Page 2 of 5

Report Reference #

E137142-A12-UL-1

Correction 1 2010-05-27

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Test Report
- "(see appended table)" refers to a table appended to the Test Report
- Throughout the Test Report a point is used as the decimal separator

GENERAL PRODUCT INFORMATION:	
CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	This equipment is a Class II laser product incorporating a Class IIIb laser diode and complies with FDA Radiation Performance Standards, 21 CFR Subchapter J.
CC1.0	Model Differences
CC1.1	N/A
CD1.0	Additional Information
CD1.1	<p>Enclosures:</p> <p>Not investigated. A test report for the power supply may be required when submitting this CB Report to a National Certification Body (NCB) to obtain a national mark. Units require a Listed (EPBU), Class 2 power supply or Listed (QQGQ) power supply marked "Limited Power Source" or "LPS".</p> <p>Correction 1 - Corrected the dimensions from 9.7 cm by 5.5 cm to 10.1 cm by 6.2 cm for Scan Window to Critical Component List.</p>
CE1.0	Technical Considerations
CE1.2	The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50
CE1.6	The class of laser product is: Class 2 (II). This equipment is a Class II laser product incorporating a Class IIIb laser diode and it complies with FDA Radiation Performance Standards, 21 CFR Subchapter J.,
CE1.15	The power supply in this equipment was: Not investigated. A test report for the power supply may be required when submitting this CB Report to a National Certification Body (NCB) to obtain a national mark. Units require a Listed (EPBU), Class 2 power supply or Listed (QQGQ) power supply marked "Limited Power Source" or "LPS".,

IEC 60950-1		
Clause	Requirement + Test	Result - Remark
		Verdict

TABLE: list of critical components						
1.5.1	Object/part No.	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity
	Enclosure	Various	Aluminum	Three piece construction, overall 14.6 cm by 12.7 cm by 8.3 cm, minimum 4.0 mm thick. Top, Rear and bottom enclosure parts are secured by screws to complete the overall enclosure.	--	--
	Interface Connector	Various	Various	SELV interface connector (DB- 15). Metal pins in a metal housing. Insulating base plastic shall be R/C (QMFZ2 rated minimum V- 2.	--	--
	Interface Connector (Alternate)	Various	Various	SELV interface connector (DB- 15).	ECBT2 or DUXR2	UL
	Printed Wiring Board	Various	Various	Rated minimum V-1, 105 °C	ZPMV2	UL
	Scan Window	--	--	Glass, overall 10.1 cm by 6.2 cm	--	--
	Mirror Motor	Maxon Motor	EC 32	Rated 9 V dc, 6 W (SELV)	--	--
	Laser Diode	Toshiba	TOLD9441MC	Rated 2.2. V, 650 nm, 7 mW	--	--
	Power Supply	Various	Various	Input rated: 100-240 Vac, 1.5 A.	EPBU	UL
	Power Supply (Alternate)	Various	Various	Output rated: 10-28 Vdc, 5 W. Input rated: 100-240 Vac, 1.5	QQGQ	UL

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

			A.	Output rated: 10-28 Vdc, 5 W. Additionally marked "LPS" or "Limited Power Source"			
LED	Various	Various		Visible indicator for unit condition "Power On"	--	--	