

ET154XL-XXXX * SERIES

AGENCY CERTIFICATIONS

ITEM	CERTIFICATION DOCUMENT
1	UL Recognized (USA, Canada)
2	TUV Bauart (Germany, European Community)
3	CB Report & Certificate
4	CE Declaration of Conformity (European Community) Emissions Class B Immunity Safety
5	Declaration of Conformity FCC Class B (USA) IC Class B (Canada) C-Tick Class B (Australia/New Zealand) VCCI Class B (Japan) UL/cUL (USA, Canada) Section 508 Rehabilitation Act (USA)

ELO DOCUMENT #ES500316 Rev. A

SPECIFIC TECHNICAL CRITERIA

UL 60950 Safety of information technology equipment	
Report Reference No.....	E142408-A10-UL-1
Compiled by	Kyungsoo Cha
Reviewed by	Jongkyu Park
Date of issue	2004-06-28
Standards	UL60950, Third Edition (2000) CAN/CSA-C22.2 No. 60950-00, Third Edition (2000)
Test procedure	Component Recognition
Non-standard test method	N/A
Test item description	LCD Monitor without Enclosure
Trademark	None
Model and/or type reference	ET154XL-XXXX-*(Where X and * can be any alphanumeric charictor or / or blank) 1st X: Configuration 2nd X: Touch screen type 3rd X: Touch screen connection type 4th X: Buyer
Rating(s)	100-240 V ac, 50/60 Hz, 1.0 A

Particulars: test item vs. test requirements

Equipment mobility : movable
Operating condition : continuous
Mains supply tolerance (%) : +6%, -10%
Test for IT power systems : No
IT testing, phase-phase voltage (V) : N/A
Class of equipment : Class I (earthed)
Mass of equipment (kg) : 4.8
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")

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	LCD monitor associated with unlisted component power supply:	
CC1.0	Model Differences	
CC1.1	N/A	
CD1.0	Additional Information	
CD1.1	Tests on Model ET154XL-XXXXA-* was associated with unlisted component power supplies(Frontek Co., Ltd., type FLF1542-02A).	
CE1.0	Technical Considerations	
CE1.2	The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of:	35 °C
CE1.3	The power supply means are:	Pluggable A, Detachable power cord
CE1.4	The product is intended for use on the following systems:	TN
CE1.5	The equipment disconnect device is considered to be:	Appliance inlet
CF1.0	Engineering Conditions of Acceptability	
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:	
CF1.3	The end-product Electric Strength Test is to be based upon a maximum working voltage of:	274 Vrms, 404 Vpk
CF1.12	The maximum investigated branch circuit rating is:	20 A
CF1.13	The investigated Pollution Degree is:	2
CF1.14	The front bezel complies with the requirements for:	a decorative part
CF1.15	Proper bonding to the end-product main protective earthing termination is:	Required

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.* Blatt *Page*
R 50061603 0001

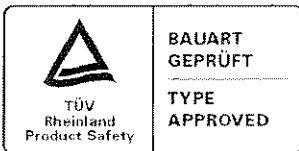
<i>Ihr Zeichen Client Reference</i>	<i>Unser Zeichen Our Reference</i>	<i>Ausstellungsdatum</i>	<i>Date of Issue</i> (day/mo/yr)
Mr. J.Y. Shon	ZKR1-KYY- 13003204 001	20.04.2005	

Genehmigungsinhaber License Holder
Elo TouchSystems, Inc.
301 Constitution Drive
Menlo Park, CA 94025-1111
USA

Fertigungsstätte Manufacturing Plant
Elo TouchSystems, Inc.
301 Constitution Drive
Menlo Park, CA 94025-1111
USA

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 60950:2000



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Bildschirm LCD TouchScreen Monitor

Bezeichnung (Type designation)	: ET154XL-XXXX-*	12
	X und * steht für frei wählbar (X and * stand for any suffix)	2
Nennspannung (Rated Voltage)	: AC 100 - 240 V	
Nennstrom (Rated Current)	: 1,0 A	
Schutzklasse (Protection Class)	: I	

14

ANLAGE (Appendix): 1

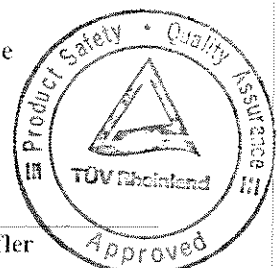
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com

Zertifizierungsstelle

Dipl.-Ing. D. Löffler





Ref. Certif. No.

JPTUV-010832

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

LCD Touch screen Monitor

Name and address of the applicant
Nom et adresse du demandeur

Elo TouchSystems, Inc.
301 Constitution Drive
Menlo Park, CA 94025-1111, USA

Name and address of the manufacturer
Nom et adresse du fabricant

Elo TouchSystems, Inc.
301 Constitution Drive
Menlo Park, CA 94025-1111, USA

Name and address of the factory
Nom et adresse de l'usine

(See appendix for factories information)

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

AC 100-240V; 1.0A; 50/60Hz; Class I

Trade mark (if any)
Marque de fabrique (si elle existe)

elo

Model/type Ref.
Ref. de type

ET154XL-XXXA-*
(X, * = any suffix)

Additional information (if necessary)
Information complémentaire (si nécessaire)

For model differences, refer to the test report.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950:1999
inclusive CENELEC Common Modifications
National differences see test report

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue une partie de ce Certificat

13003397 001

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



TÜV Rheinland Group

TÜV Rheinland Japan Ltd.
Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama, Kohoku-ku
Yokohama 222-0033 Japan
Phone + 81 45 470-1850
Fax + 81 45 473-5221
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 22.04.2005

Signature: Dipl.-Ing. R. Keller

TEST REPORT**IEC 60950 and EN 60950****Safety of information technology equipment**

Report reference No : 13003397 001

Tested by (printed name and
signature) : Young-joon KimApproved by (printed name and
signature) : Kyung-hwan Park

Date of issue : 18.04.2005

Testing Laboratory Name : TÜV Rheinland Korea Ltd., laboratory

Address : 2F., Se-Hwa Bldg., 157-16, Samseong-dong, Gangnam-gu, Seoul,
135-090, R.O.K.Testing location : CBTL CCATL SMT TMP

Address : same as above

Applicant's Name : Elo TouchSystems, Inc.

Address : 301 Constitution Drive, Menlo Park, CA, 94025-1111, USA

Test specification

Standard : IEC 60950:1999 (3rd Edition) + Corr. Jan. 2000
EN 60950:2000 + Corr. Febr. 2002

Test procedure : CB-scheme

Procedure deviation : CENELEC common modifications, Argentina, Australia, Austria,
Belgium, Brazil, Canada, China, Czech Republic, Denmark, Finland,
France, Germany, Hungary, India, Ireland, Israel, Italy, Japan, Korea,
Malaysia, The Netherlands, Norway, Poland, Portugal, Russian
Federation, Slovakia, Slovenia, South Africa, Spain, Sweden,
Switzerland, Turkey, Ukraine, United Kingdom, United States of
America

Non-standard test method : N.A.

Test Report Form No. : IECEN60950A


TRF originator : SGS Fimko Ltd

Master TRF : dated 2003-03

Copyright @ 2003 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE),
Geneva, Switzerland. All rights reserved.This publication may be produced in whole or in part for non-commercial purposes as long as the IECEE is
acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not
assume liability for damages resulting from the reader's interpretation of the reproduced material due to its
placement and context

Test item description : LCD Touch screen Monitor

Manufacturer : Elo TouchSystems, Inc. (same as applicant)

Trademark : 

Model and/or type reference : ET154XL-XXXA-*

Serial number : N.A (Prototype)

Rating(s) : 100 – 240 V AC, 1.0 A, 50/60Hz

<p>Particulars: test item vs. test requirements</p> <p>Equipment mobility: Built-in</p> <p>Operating condition: continuous</p> <p>Mains supply tolerance (%).....: -10 % / +6 %</p> <p>Tested for IT power systems: Considered for Norway</p> <p>IT testing, phase-phase voltage (V): 230V</p> <p>Class of equipment: Class I</p> <p>Mass of equipment (kg).....: 4.8 Kg</p> <p>Protection against ingress of water: IPX0</p>
<p>Test case verdicts</p> <p>Test case does not apply to the test object: N/A</p> <p>Test item does meet the requirement: P(ass)</p> <p>Test item does not meet the requirement .: F(ail)</p>
<p>Testing</p> <p>Date of receipt of test item: 31.01.2005</p> <p>Date(s) of performance of test: 15.02.2005 – 06.04.2005</p>
<p>General remarks</p> <p>This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by a NCB, in accordance with IEC 60950-1.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>The test results presented in this report relate only to the item(s) tested.</p> <p>"(see appended table)" refers to a table appended to the report.</p> <p>"(see remark #)" refers to a remark appended to the report.</p> <p>"(see Annex #)" refers to an annex appended to the report.</p> <p>Throughout this report a point is used as the decimal separator.</p>
<p>1) General product information:</p> <p>The product tested is LCD touch screen monitor without external(fire and mechanic) enclosure. Max. specified ambient temperature (°C): 35°C The test sample was a pre-production sample without serial number. It should be evaluated for mechanic and fire enclosure in the end-product. The character, " X " and " * " of the type designation can be any suffix(only for marketing purpose).</p>
<p>2) Differences between the models:</p> <p>N.A.</p>
<p>3) Options:</p> <p>N.A.</p>
<p>4) Insulation system:</p> <p>Secondary circuits are separated from primary by double/reinforced insulation. All output / interface voltages are at SELV level.</p>

Declaration of Conformity

Application of Council Directives: 89/336/EEC
73/23/EEC

Standards to which conformity is declared:

EN 60950: 2000; TUV Bauart
EN 55081-1:1992
EN 55022: 1998, Class B
EN 55024:1998 +A1:2001 - Level 2, 3 volts/meter
EN 50082-1 1997
EN 61000-3-2: 2000 – Under 75 W
EN 61000-3-3:1995+A1:2001 - Standard
EN 61000-4-2:2001 - 4kv contact, 8kv air discharges
EN 61000-4-3:2002 - Level 2, 3 volts/meter
EN 61000-4-4:1995+A1:2000+A2:2001 - Level 2, 1.0kv at 5Khz
EN 61000-4-5:2001 - Level 3, 2.0kv at 5Khz
EN 61000-4-6:2001 - Level 2, 3 volts at 0.15-80Mhz
EN 61000-4-8:2001 – 1 A/m 50 Hz
EN 61000-4-11: 2001 - 0/40/70% U_T, dips, variations

Manufacturer's Name and Address: Elo TouchSystems, Inc.
301 Constitution Drive
Menlo Park, California, USA 94025-1164

Manufacturer's Address in EU: Tyco Electronics Raychem NV, div. Elo TouchSystems
Diestsesteenweg 692
Kessel-lo, Belgium

Type of Equipment: Information Technology Equipment

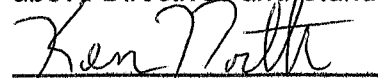
Equipment Class: Commercial & Light Industrial

Product Name: Touch Monitor

Model Number(s): ET154XL-YZXA*
(x=0-9/A-Z/blank, Y = 7/8/9/0, Z = S/U/N, *= suffixes)

Year of Manufacture: 2004

We hereby declare that the equipment specified above conforms to the above Directives and Standard(s).



Ken North
Director, Engineering TouchSystems
Menlo Park, California, USA

Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15:	Class B
ICES-03:	Class B
VCCI:	Class B
C-Tick:	Class B
UL 60950:	Third Edition (cULus ¹)
C22.2 No. 60950:	Third Edition (cULus ¹)
EN 60950	2000 (TUV ¹)
Rehabilitation Act	Section 508
IEC 60950	CB Report, Certificate (all member deviations)

¹ Kiosk/Frame displays are UL Recognized & TUV Bauart


Manufacturer's Name and Address:	Elo TouchSystems, Inc. 301 Constitution Drive Menlo Park, California, USA 94025-1164
----------------------------------	--

Type of Equipment:	Information Technology Equipment
Equipment Class:	Commercial & Light Industrial
Product Name:	Touch Computer

Model Number(s):	ET154XL-YZXA* (X=0-9/A-Z/blank, Y=6/7/8/0, Z=S/U/N, *= suffixes)
------------------	---

Year of Manufacture: 2005

We hereby declare that the equipment specified above conforms to the above Directives and Standard(s).



Ken North
Director, Engineering TouchSystems
Menlo Park, California, USA