

# Ultrastar C15K147 Agency Certification

**Version 1.2**

**May 2010**

 **Hitachi Global Storage Technologies**

# Contents

## **Ultrastar 15K147**

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- Korea - RRL/MIC



Ref. Certif. No.

US/14743/UL

IEC SYSTEM FOR CONFORMITY TESTING AND CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

## CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product  
Produit

Hard Disk Drive Ultrastar C15K147

Name and address of the applicant  
Nom et adresse du demandeur

HITACHI GLOBAL STORAGE TECHNOLOGIES INC  
5801 GREAT OAKS PKY  
SAN JOSE CA 95119, USA

Name and address of the manufacturer  
Nom et adresse du fabricant

HITACHI GLOBAL STORAGE TECHNOLOGIES INC  
5801 GREAT OAKS PKY  
SAN JOSE CA 95119, USA

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

HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE LTD  
4 KAKI BUKIT AVE 1  
#03-08 SINGAPORE 417939, SINGAPORE

Rating and principal characteristics  
Valeurs nominales et caractéristiques principales

+ 5 V dc, 1.0 A; +12 V dc, 0.4 A

Trademark (if any)  
Marque de fabrication (si elle existe)

**HITACHI**

Model / Type Ref.  
Ref. de type

HUC1514xxCSS80y where 'xx' is a two digit number 14 or 73, and 'y' is a one digit number 0 or 1.

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

The CB Test Report comprises 3 enclosures.

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

### PUBLICATION

**IEC 60950-1 (2005) Second Edition,**  
Additionally evaluated to EN60950-1 (2006) with Am. 11 (2009) to include Group and National Differences for European countries; other National Differences also specified in the CB 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 partie de ce Certificat

E240353-A7-CB-2

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



**Underwriters  
Laboratories**

Underwriters Laboratories Inc. / GMA Certification Department, US  
333 Pfingsten Road, Northbrook, IL 60062-2098  
United States of America  
TEL INT\* +1 847 684 3008, FAX INT\* +1 847 313 3008  
email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2010 February 25

Signature:

  
Jolanta M. Wroblewska

# **HITACHI**

## **Inspire the Next**

Hitachi Global Storage Technologies, Inc.  
5601 Great Oaks Parkway  
San Jose, CA 95119-1003 USA  
Tel: 800-801-4618 Fax: 408-717-5000  
[www.hgst.com](http://www.hgst.com)

### **CE, ICES and VCCI Declaration of Conformity**

We,  
Hitachi Global Storage Technologies  
5601 Great Oaks Parkway  
San Jose, CA 95119-1003

Declare, under our sole responsibility, that the Hitachi Ultrastar C15K147 series of products (model part numbers: HUC151414CSS600, HUC151414CSS601, HUC151473CSS600, HUC151473CSS601)

And manufactured by  
Hitachi Global Storage Technologies Singapore Pte. Ltd.  
#03-08, 4 Khaki Bukit Ave. 1  
Singapore 417939, Singapore

Conform to the following European Directives:

1. Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.
2. Council Directive 2006/95/EC on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

The **CE** Declaration of conformity has been assessed for the Hitachi Ultrastar C15K147 Model numbers where "x" chars = 0-9, and "y" chars = 0, 1.  
HUC1514xxCSS60y  
(Serial Attached SCSI – SAS, 6 Gb/s)

## Hitachi Global Storage Technologies

### **Schedule A**

Conformity with Council Directive 2006/95/EC on the approximation of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits, is based on compliance with the following harmonized Standards: EN 60950-1:2001, First Edition

### **Schedule B**

Conformity with Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility is based on compliance of the product with the following harmonized standards:

- 1: EN 55022: 2006 + A1:2007 (Class B for SAS)
- 2: EN 55024: 1998 +A1:2001 +A2:2003
- 3: EN 61000-3-2: 2006
- 4: EN 61000-3-3:1995 + A1:2001 + A2:2005


**And conform to the following Directives:**

### **VCCI Japanese Standards of Confirmation**

- 1. All SAS models conform to the requirements of the 2007 VCCI Class B harmonized standards of electromagnetic compatibility.

### **ICES-003 Canadian Standards of Confirmation**

- 1. All Class B digital apparatus (SAS hard disk drives) comply with Canadian ICES-003, Issue 4, 2004 Class B standards.

  
\_\_\_\_\_  
Art Muzik, Program Director

04/30/2009      08/13/2009

\_\_\_\_\_  
Date of issue      Revision 1

符合性聲明書  
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33373	

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具  
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司

Obligatory Applicant

地址：台北市敦化北路 167 號 5 樓(宏國大樓)

Address

電話：02-3518-1681

Telephone

商品中(英)文名稱：(中文)硬碟機

Commodity Name

(英文) HARD DISK DRIVE

商品型式(或型號)：HUC103014CSS600, HUC103014CSS601

Commodity Type (Model)

HUC103030CSS600, HUC103030CSS601

HUC151473CSS600, HUC151473CSS601

HUC151414CSS600, HUC151414CSS601

符合之檢驗標準及版次：CNS 13438, 2006 (Taiwan)

Standard(s) and version

試驗報告編號：IBMR1094

Test Report Number

試驗室名稱及代號：IBM Rochester EMC Lab

Testing laboratory name and designation number

SL2-IN-E-1039

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司(簽章)

Obligatory Applicant



(Signature)

中華民國九十八年三月二十五日

DATE

(year)

(month)

(day)

## Supplier's declaration of conformity

For compliance level 1, 2 and 3 in Australia  
As required under notices under

- Section 182 of the Australian Radiocommunications Act 1992



**Australian Government**  
**Australian Communications  
and Media Authority**

### Instructions for completion

- This completed form remains with the supplier as part of the documentation required for the compliance records. Do not return this form to ACMA.

### Supplier's details

Company Name (name of manufacturer, importer or agent)

NJM TECHNOLOGY SOLUTIONS PTY LTD

ACMA supplier code number

N13508

Address (address of manufacturer, importer or agent)

43 FOREST LANE

MARKWOOD

VICTORIA POSTCODE 3678

ABN, ACN or ARBN

57 099 627 266

### Product details

HITACHI GLOBAL STORAGE TECHNOLOGIES ULTRASTAR C15K147  
2.5 INCH 15000 RPM SAS INTERFACE HARD DISK DRIVE

MODELS COVERED: HUC151473CSS800  
HUC151473CSS801  
HUC151414CSS800  
HUC151414CSS801

### Compliance with Radiocommunications (Electromagnetic Compatibility) Standard 2008

The above mentioned product complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. Evidence of compliance is demonstrated by test reports to the following applicable standards.

### Applicable standards

EN55022:2006 + A1:2007  
IEC CISPR22: 2005

EMC TEST REPORT No: IBMR1094 DATED 25<sup>TH</sup> MARCH 2009  
PREPARED BY IBM ROCHESTER EMC LAB

### Declaration

I hereby declare that the product mentioned above complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. All products supplied under this declaration will be identical to the product identified above.

Signature

Name

NIGEL MATHESON

Position in Organisation

MANAGING DIRECTOR

Date

4<sup>th</sup> May 2009

Zertifikat

Certificate



Zertifikat Nr. Certificate No.  
R 72090138

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0002

Ihr Zeichen Client Reference Unser Zeichen Our Reference Ausstellungsdatum Date of Issue  
Mike Lorelli -MW- 30980139 002 03.05.2010 (day/mo/yr)

Genehmigungsinhaber License Holder  
Hitachi Global Storage Technologies  
5601 Great Oaks Parkway  
San Jose CA 95119  
USA

Fertigungsstätte Manufacturing Plant  
Hitachi Global Storage  
Technologies Singapore Pte. Ltd.  
4, Kaki Bukit, Ave 1, #03-08,  
Singapore 417939  
Singapore

Prüfzeichen Test Mark

Geprüft nach Tested acc. to  
EN 60950-1:2006+A11



Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

Data carrier Hard Disk Drive Ultrastar C15K147

Change:  
Upgrade of standard for all models; see above



ANLAGE (Appendix): 1, 1-2

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.  
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

Zertifizierungsstelle

Dipl.-Ing. M. Glagla

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg  
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com  
Fax: +49 221 806-3935 http://www.tuv.com/safety  
Inh. = 745219 / Deb. = 795306 / Fert. = 751344



전자문서확인번호 3RA1-DDR3-31Y6-HUGW



# 방송통신기기인증서

*Certificate of Broadcasting and Communication Equipment*

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티아얼티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUC151414CSS600
파생모델명 <i>Series Model Number</i>	HUC151414CSS601
인증번호 <i>Certification No</i>	HGS-HUC151414CSS60 (B)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE. LTD./싱가폴
인증연월일 <i>Date of Certification</i>	2009년(Year) 06월(Month) 12일(Date)
기타 <i>Others</i>	신청인상호:히타치글로벌스토리지테크놀로지스아시아퍼티아얼티디(영업소)

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.  
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 06월(Month) 12일(Date)

전파연구소장



*Director General of Radio Research Laboratory*  
*Korea Communications Commission Republic of Korea*

\* 김택여부는 [www.kkcc.go.kr](http://www.kkcc.go.kr)에서 확인할 수 있습니다. \* 복사본은 상단 복사방지마크의 '원' 또는 '본' 글자가 사라집니다.



전자문서확인번호 4Q16-302W-PKUY-F5S1



# 방송통신기기인증서

*Certificate of Broadcasting and Communication Equipment*

인증의 종류 <i>Certification Type</i>	전자과격합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티아엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUC151473CSS600
과생모델명 <i>Series Model Number</i>	HUC151473CSS601
인증번호 <i>Certification No</i>	HGS-HUC151473CSS60 (B)
제조사/ 제조국가 <i>Manufacturer/Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGIES SINGAPORE PTE. LTD./싱가포르
인증연월일 <i>Date of Certification</i>	2009년(Year) 06월(Month) 12일(Date)
기타 <i>Others</i>	신청인상호:히타치글로벌스토리지테크놀로지스아시아퍼티아엘티디(영업소)

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전파연구



*Director General of Radio Research Laboratory*  
*Korea Communications Commission Republic of Korea*

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