

Advance Clock Co. (Far East) Ltd.

Application
For
Certification
(FCC ID: R3F-0003251)

RF Lighting Device

Sample Description : 0.6" LED Desk Clock With
Fluorescent Lamp

Model : 3251

Additional Model : 4571, 4572, 4573, 4574

04047611
CK/kl
June 18, 2004

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FCC ID: R3F-0003251

Intertek Testing Services Hong Kong Ltd.

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MEASUREMENT/TECHNICAL REPORT

Advance Clock Co. (Far East) Ltd.

- MODEL: 3251

FCC ID: R3F-0003251

June 18, 2004

This report concerns (check one:) Original Grant X Class II Change

Equipment Type: RF Lighting

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No X

If yes, defer until:
date

Company Name agrees to notify the Commission by:
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Report prepared by:

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List of attached file

Exhibit type	File Description	filename
Test Report	Test Report	report.pdf
Operation Description	Technical Description	descri.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Report	Conducted Emission Test Result	conducted.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 **General Description**

1.1 Product Description

The equipment under test (EUT) is an 0.6" LED Desk Clock With Fluorescent Lamp. The EUT is operated with 270 KHz and powered by 120V.

The Model: 4571, 4572, 4573, 4574 are the same as the tested Model: 3251 in hardware and software aspect. The models are difference in colour only.

For electronic filing, the brief circuit description is saved with filename: descri.pdf

1.2 Related Submittal(s) Grants

This is a single application for certification of a consumer RF lighting equipment.

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1.3 Test Methodology

AC mains line-conducted emission measurements was performed according to the procedures in MP-5.

1.4 Test Facility

Conducted measurement facility used to collect the emission data is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC.

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1.5 Equipment List

1) Disturbance Voltage Tests for FCC Part 18

Equipment	Registration No.	Manufacturer	Model No.	Serial No.	Calibration Due Date
EMI Test Receiver	EW-0015	R&S	ESHS30	827128/009	Jan 30, 2005
LISN	EW-0192	R&S	ESH3-Z5	828874/016	Jul 7, 2004
Pulse Limiter	EW-0698	R&S	ESH3-Z2	830.836/033	May 25, 2005

EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in MP-5.

The EUT was powered by 120V.

2.2 EUT Exercising Software

There was no software to exercise the device. Once the EUT is turned on, it emits the RF noise.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

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2.4 Equipment Modification

Any modifications installed previous to testing by Advance Clock Co. (Far East) Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Intertek Testing Services.

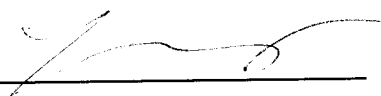
2.5 Support Equipment List and Description

This product was tested in a standalone configuration.

All the items listed under section 2.0 of this report are

Confirmed by:

*C. K. Lam
Manager
Intertek Testing Services Hong Kong Ltd.
Agent for Advance Clock Co. (Far East) Ltd.*



June 18, 2004

Signature
Date

EXHIBIT 3
EMISSION RESULTS

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3.0 **Emission Results**

The operating frequency of this product is 270 KHz. According to Section 18.309 frequency range of measurement, radiated emission testing is not necessary for RF lighting devices operating below 1.705 MHz.

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3.1 Line Conducted Configuration Photograph

Worst Case Line-Conducted Configuration
at
4.33 MHz

For electronic filing, the worst case line-conducted configuration photograph are saved with filename: conducted photos.pdf.

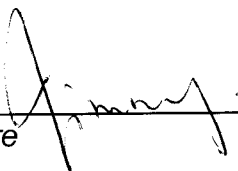
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3.2 Line Conducted Emission Configuration Data

For electronic filing, the graph and data table of the worst case conducted emission is saved with filename: conducted.pdf.

Judgement: Passed by -15.3 dB

TEST PERSONNEL:



Signature

Jimmy Woo, Compliance Engineer
Typed/Printed Name

April 13, 2004
Date

EXHIBIT 4

EQUIPMENT PHOTOGRAPHS

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4.0 **Equipment Photographs**

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

EXHIBIT 5
PRODUCT LABELLING

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5.0 **Product Labelling**

For electronic filing, the FCC ID label artwork and the label location are saved with filename: label.pdf

EXHIBIT 6
TECHNICAL SPECIFICATIONS

6.0 **Technical Specifications**

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

EXHIBIT 7
INSTRUCTION MANUAL

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7.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf

This manual will be provided to the end-user with each unit sold/leased in the United States.