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Environmental Assessment

for

Mobiles/Fixed Base Station

for

FCC ID: TO4-CCAM-0102
Model: D-Cam Clip On

to

Federal Communications Commission

47 CFR 1.1310 (MPE)
Radiofrequency Radiation Exposure Limits

Date Of Report: October 18, 2005
Amended: January 25, 2006

On the Behalf of the Applicant:

Gigawave Limited

At the Request of: P.O. Deposit Check #43113

Applicant: Gigawave US
777 American Drive
Bensalem, PA 19020

Attention of: Adolph F. Fellmeth III, Secretary and General Counsel
215-633-1000; Fax: 215-633-1085
ffellmeth@totalrf.com

Supervised By: David E. Lee, FCC Compliance Manager

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Required information per ISO/IEC Guide 25-1990, paragraph 13.2:

a)	**Test Report (Supplemental)**
b) Laboratory: (FCC: 31040/SIT) (Canada: IC 2044)	M. Flom Associates, Inc. 3356 N. San Marcos Place, Suite 107 Chandler, AZ 85225
c) Report Number:	d05a0020
d) Client:	Total RF Marketing 777 American Drive Bensalem, PA 19020
e) Identification: Description:	D-Cam Clip On FCC ID: TO4-CCAM-0102 Television Camera Transmitter
f) EUT Condition:	Not required unless specified in individual tests.
g) Report Date: EUT Received:	October 18, 2005 June 17, 2005
h, j, k):	As indicated in individual tests.
i) Sampling method:	No sampling procedure used.
l) Uncertainty:	In accordance with MFA internal quality manual.
m) Supervised by:	David E. Lee, FCC Compliance Manager
n) Results:	The results presented in this report relate only to the item tested.
o) Reproduction:	This report must not be reproduced, except in full, without written permission from this laboratory.

Identification of the Equipment Under Test (EUT)

Name and Address of Applicant:

Gigawave US
777 American Drive
Bensalem, PA 19020

Manufacturer:

Gigawave Limited
Gigawave Technical Centre
Earls Colne Business Park
Colchester, Essex CO62NS UK

FCC ID:	TO4-CCAM-0102
Model Number:	D-Cam Clip On
Description:	Television Camera Transmitter
Type of Emission:	12M0W7D, 12M0F8M
Frequency Range, MHz:	1990 - 2492
Power Rating, Watts:	0.100

____ Switchable ____ Variable X N/A

Modulation:

____ AMPS
____ TDMA
____ CDMA
X OTHER

Antenna:

____ Helical
____ Monopole
____ Whip
X Other

Note: For RF Safety test antenna gain taken at the upper range of expected gain (i.e. 4 dBi) and RF Power set to highest nominal power across all channels.

Standard Test Conditions
and
Engineering Practices

Except as noted herein, the following conditions and procedures were observed during the testing:

In accordance with ANSI C63.4-1992/2003, and unless otherwise indicated in the specific measurement results, the ambient temperature of the actual EUT was maintained within the range of 10° to 40°C (50° to 104 °F) unless the particular equipment requirements specify testing over a different temperature range. Also, unless otherwise indicated, the humidity levels were in the range of 10% to 90% relative humidity.

Prior to testing, the EUT was tuned up in accordance with the manufacturer's alignment procedures. All external gain controls were maintained at the position of maximum and/or optimum gain throughout the testing.

Measurement results, unless otherwise noted, are worst-case measurements.

THE AMERICAN
ASSOCIATION
FOR LABORATORY
ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

M. FLOM ASSOCIATES, INC.
Chandler, AZ

for technical competence in the field of

Electrical Testing

The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration Laboratories" and any additional program requirements in the identified field of testing.

Presented this 16th day of June 2004.

President
For the Accreditation Council
Certificate Number 2152-01
Valid to August 31, 2006

A2LA

For tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

A2LA

"A2LA has accredited M. Flom Associates, Inc. Chandler, AZ for technical competence in the field of Electrical Testing. The accreditation covers the specific tests and types of tests listed on the agreed scope of accreditation. This laboratory meets the requirements of ISO/IEC 17025 – 1999 'General Requirements for the Competence of Testing and Calibration Laboratories' and any additional program requirements in the identified field of testing."

Certificate Number: **2152-01**

Name of test: Environmental Assessment

Specification: FCC: 47 CFR 1.1310

Standard antenna used is a 4dbi (1.85dBd) gain monopole that sits on the back of a camera at a distance of 10-11" (20cm =7.8").

	MPE Calculated
Frequency, MHZ	2200
Limit	1.0 mW/cm²
Emission at 20cm	0.05 mW/cm²

Calculated By: David E. Lee, FCC Compliance Manager

(The following will be placed in the Instruction Manual)

Mandatory Safety Instructions to Installers & Users

Use only manufacturer or dealer supplied antenna.

Antenna Minimum Safe Distance: 20cm**.**

Antenna Gain: 1.85dB referenced to a dipole.

The Federal Communications Commission has adopted a safety standard for human exposure to RF (Radio Frequency) energy which is below the OSHA (Occupational Safety and Health Act) limits.

Antenna Mounting: The antenna supplied by the manufacturer or radio dealer must not be mounted at a location such that during radio transmission, any person or persons can come closer than the above indicated minimum safe distance to the antenna i.e. **20cm**.

To comply with current FCC RF Exposure limits, the antenna must be installed at or exceeding the minimum safe distance shown above, and in accordance with the requirements of the antenna manufacturer or supplier.

Antenna Substitution: Do not substitute any antenna for the one supplied or recommended by the manufacturer or radio dealer. You may be exposing person or persons to excess radio frequency radiation. You may contact your radio dealer or the manufacturer for further instructions.

Warning: Maintain a separation distance from the antenna to a person(s) of at least **20cm**.

You, as the qualified end-user of this radio device must control the exposure conditions of bystanders to ensure the minimum separation distance (above) is maintained between the antenna and nearby persons for satisfying RF Exposure compliance. The operation of this transmitter must satisfy the requirements of Occupational/Controlled Exposure Environment, for work-related use. Transmit only when person(s) are at least the minimum distance from the properly installed, externally mounted antenna.

Testimonial
and
Statement of Certification

This is to certify that:

1. **That** the application was prepared either by, or under the direct supervision of, the undersigned.

2. **That** the technical data supplied with the application was taken under my direction and supervision.

3. **That** the data was obtained on representative units, randomly selected.

4. **That**, to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct.

Certifying Engineer: David E. Lee, FCC Compliance Manager