

Application for FCC Certification
On behalf of

Hisense Electric Co., Ltd.

Product Name: NETWORK MEDIA PLAYER

Model No.: GX1200V

FCC ID: W9HLCDX0006

(MPE Calculation)

Prepared For : Hisense Electric Co., Ltd.
No.218 Qianwangang Road, Economy & Technology
Development Zone, Qingdao, China

Prepared By : Audix Technology (Shanghai) Co., Ltd.
3F 34Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

Tel: +86-21-64955500
Fax: +86-21-64955491

Report No. : ACI-F12176
Date of Test : Nov. 01, 2012
Date of Report : Nov. 06, 2012

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Hisense Electric Co., Ltd.

Manufacturer : Hisense Electric Co., Ltd.

EUT Description : NETWORK MEDIA PLAYER

(A) Model No. : GX1200V

(B) Test Voltage : AC 120V/60Hz

Test Procedure Used:

FCC OET Bulletin 65 August 1997

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC OET Bulletin 65.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. This report also shows that the EUT (M/N: GX1200V), which was tested on Nov. 01, 2012 is technically compliance with the FCC limits.


This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) Co., Ltd.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Nov. 01, 2012 Date of Report : Nov. 06, 2012

Producer : *Kathy Wang*
KATHY WANG / Assistant

Review : *Dio Yang*
DIO YANG / Assistant Manager

 For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Signatory : *Sammy Chen*
Authorized Signature EMC SAMMY CHEN / Deputy Manager

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description : NETWORK MEDIA PLAYER

Type of EUT Production Pre-product Pro-type

Model Number : GX1200V

Radio Tech : IEEE 802.11b/g/n (2.4GHz)

Freq. Band : 2412MHz ~ 2462MHz (Ch1-Ch11) for 802.11b/g
2412MHz ~ 2462MHz (Ch1-Ch11) for
802.11n 20MHz Band
2422MHz ~ 2452MHz (Ch3-Ch9) for
802.11n 40MHz Band

Tested Freq. : for 802.11b/g/n HT20
2412MHz (Ch1), 2437MHz (Ch6), 2462MHz (Ch11)
for 802.11n HT40
2422MHz (Ch3), 2437MHz (Ch6), 2452MHz (Ch9)

Modulation : DSSS for 802.11b
OFDM for 802.11g/n

Antenna Gain : 1.26 dBi

Applicant : Hisense Electric Co., Ltd.
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Manufacturer : Hisense Electric Co., Ltd.
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1.2 Description of Test Facility

Site Description (Semi-Anechoic Chamber) : Sept. 17, 1998 file on
Apr 29, 2009 Renewed
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

Name of Firm : Audix Technology (Shanghai) Co., Ltd.

Site Location : 3 F 34 Bldg 680 Guiping Rd.,
Caohejing Hi-Tech Park,
Shanghai 200233, China

FCC registration Number : 91789

Accredited by NVLAP, Lab Code : 200371-0

1.3 Measurement Uncertainty

Output Power Expanded Uncertainty : U = 0.30 dB

2 SUMMARY OF STANDARDS AND RESULTS

2.1 Applicable Standard

FCC OET Bulletin 65:1997

2.2 Specification Limits

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

NOTE: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

The limit value 1.0mW/cm² is available for this EUT.

2.3 MPE Calculation Method

$$S = PG/(4 \pi R^2)$$

$$R = [PG/(4 \pi S)]^{0.5}$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

(the measured power value see Report: F12173 Section 6.6)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

2.4 Calculated Result

2.4.1 Radio Frequency Radiation Exposure Evaluation – 802.11b

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Power Density (mW/cm ²)	Limit (mW/cm ²)
		(dBi)	(Numeric)		
2412	33.11	1.26	1.34	0.008827	1.0
2437	36.06	1.26	1.34	0.009613	1.0
2462	36.14	1.26	1.34	0.009634	1.0

Separation distance R= 20cm.

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Limit (mW/cm ²)	Distance (cm)
		(dBi)	(Numeric)		
2412	33.11	1.26	1.34	1.0	1.88
2437	36.06	1.26	1.34	1.0	1.96
2462	36.14	1.26	1.34	1.0	1.96

The antenna used for this transmitter must be installed to provide a separation distance of at least 1.96cm from all persons.

2.4.2 Radio Frequency Radiation Exposure Evaluation – 802.11g

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Power Density (mW/cm ²)	Limit (mW/cm ²)
		(dBi)	(Numeric)		
2412	43.65	1.26	1.34	0.011636	1.0
2437	45.08	1.26	1.34	0.012018	1.0
2462	44.98	1.26	1.34	0.011991	1.0

Separation distance R= 20cm.

Frequency (MHz)	Output Power to Antenna (mW)	Antenna Gain		Limit (mW/cm ²)	Distance (cm)
		(dBi)	(Numeric)		
2412	43.65	1.26	1.34	1.0	2.16
2437	45.08	1.26	1.34	1.0	2.19
2462	44.98	1.26	1.34	1.0	2.19

The antenna used for this transmitter must be installed to provide a separation distance of at least 2.19cm from all persons.

2.4.3 Radio Frequency Radiation Exposure Evaluation – 802.11n HT20

Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)
2412	33.50	1.26	1.34	0.008931	1.0
2437	33.57	1.26	1.34	0.008949	1.0
2462	34.04	1.26	1.34	0.009075	1.0

Separation distance R= 20cm.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(cm)
2412	33.50	1.26	1.34	1.0	1.89
2437	33.57	1.26	1.34	1.0	1.89
2462	34.04	1.26	1.34	1.0	1.91

The antenna used for this transmitter must be installed to provide a separation distance of at least 1.91cm from all persons.

2.4.4 Radio Frequency Radiation Exposure Evaluation – HT40

Frequency	Output Power to Antenna	Antenna Gain		Power Density	Limit
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)
2422	40.36	1.26	1.34	0.010759	1.0
2437	44.87	1.26	1.34	0.011962	1.0
2452	45.39	1.26	1.34	0.012100	1.0

Separation distance R= 20cm.

Frequency	Output Power to Antenna	Antenna Gain		Limit	Distance
(MHz)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(cm)
2422	40.36	1.26	1.34	1.0	2.07
2437	44.87	1.26	1.34	1.0	2.19
2452	45.39	1.26	1.34	1.0	2.20

The antenna used for this transmitter must be installed to provide a separation distance of at least 2.20cm from all persons.