

Posse Audio LLC



Model PM01

CE Marking

**Technical Documentation File
SUMMARY**

Complete Copy available from Manufacturer upon request

**POSSE AUDIO L L C
UNIT D
2951 SATURN ST
BREA CA 92821
UNITED STATES**

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Section 1

EC DECLARATION OF CONFORMITY



POSSE Audio LLC
2951 Saturn St info@posseaudio.com
Suite D Ph: 714-319-4668
Brea, Ca 92821 FAX 800-540-0475
www.posseaudio.com



EC DECLARATION OF CONFORMITY

We, *Posse Audio L L C*
Ms. Jill Borton
2951 Saturn St.
Brea, CA 92821, USA
Phone: 714-924-3603
E-mail: jill@posseaudio.com

declare under our sole responsibility that our **Personal Onstage Sound Environment System, Model PM01** to which this declaration relates, is in conformity with the **Electromagnetic Compatibility Directive 2004/108/EC** of 15 December 2004.

per the provisions of the following standards.

- EN 55103-1: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 1: Emission
- EN 55103-2: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 2: Immunity
- EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 - Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current greater than or equal to 16 A per phase)
- EN 61000-3-3: 2008 - Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems, for Equipment with Rated Current Less Than or Equal to 16 A per Phase and Not Subject to Conditional Connection

The authorized representative is located at: Posse Audio L L C, Brea, CA 92821, USA.

(Signature)
A handwritten signature in black ink, appearing to read "Joe Bilotta". It is enclosed in an oval border.

Joe Bilotta, Co Owner/Officer of Posse Audio L L C
Brea, CA USA

(Date)

Section 2

List of Applied Directives and Associated Standards

List of Applied Directives and Associated Standards

- **EMC Directives**

EN 55103-1: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 1: Emission

EN 55103-2: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 2: Immunity

EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 - Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current greater than or equal to 16 A per phase)

EN 61000-3-3: 2008 - Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems, for Equipment with Rated Current Less Than or Equal to 16 A per Phase and Not Subject to Conditional Connection

Section 3

Product Description

Product Description

Description - This product is a Personal Onstage Sound Environment System. The product is rated 12 Vdc, 0.5 A

- Photographs

For Photographs, please reference Section 6 of the CE Marking Technical File – Additional Information. Photographs can be found in the CB Scheme Test Report - Reference Number E344942-A2-CB-1 - Enclosures (Photographs)

Section 4

Test Data and Reports

Test Data and Reports

- Test Reports

EN 55103-1: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 1: Emission

EN 55103-2: 2009 - Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 2: Immunity

EN 61000-3-2: 2006 + A1: 2009 + A2: 2009 - Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current greater than or equal to 16 A per phase)

EN 61000-3-3: 2008 - Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems, for Equipment with Rated Current Less Than or Equal to 16 A per Phase and Not Subject to Conditional Connection



UL LLC

EMC Report

Report Ref #1001339833

EN 55103-1: 2009

EN 55103-2: 2009

EN 61000-3-2: 2006 + A1: 2009 +A2: 2009

EN 61000-3-3: 2008

For





UL LLC
1285 Walt Whitman Rd.
Melville, NY 11747

www.ul.com/emc
(631) 271-6200

Job Number: 1001339833
Project Number: 11CA12702
File Number: E344942
Date: 2011-08-08
Revised Date: 2012-06-28
Model: P.O.S.S.E

Electromagnetic Compatibility Test Report

For
Posse Audio LLC

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UL LLC
1285 Walt Whitman Rd.
Melville, NY 11747

Tel: (631) 271-6200 Fax: (631)439-6095

An organization dedicated
to public safety and committed to
quality service for over 100 years

Test Report Details

Tests Performed By:	UL LLC 1285 Walt Whitman Rd. Melville, NY 11747
Tests Performed For:	Posse Audio LLC 2951 Saturn St., Unit D Brea, CA 92821
Applicant Contact:	Joey Bilotta (714) 396-7301 joey@posseaudio.com
Test Report Date:	2011-08-08 (Revised 2012-06-28)
Product Type:	Audio Mixing System
Product standards	EN55103-1, EN55103-2, EN61000-3-2, EN61000-3-3
Model Number:	P.O.S.S.E
Sample Serial Number:	Non-serialized prototype
EUT Category:	Professional Audio/Video Equipment
Testing Start Date:	2011-06-08
Date Testing Complete:	2011-08-05
Overall Results:	Compliant

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Model Number: P.O.S.S.E

Client Name: Posse Audio LLC

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	-	-
6/28/12	Updated standard date for EN61000-3-2	M. Antola	B. DeLisi

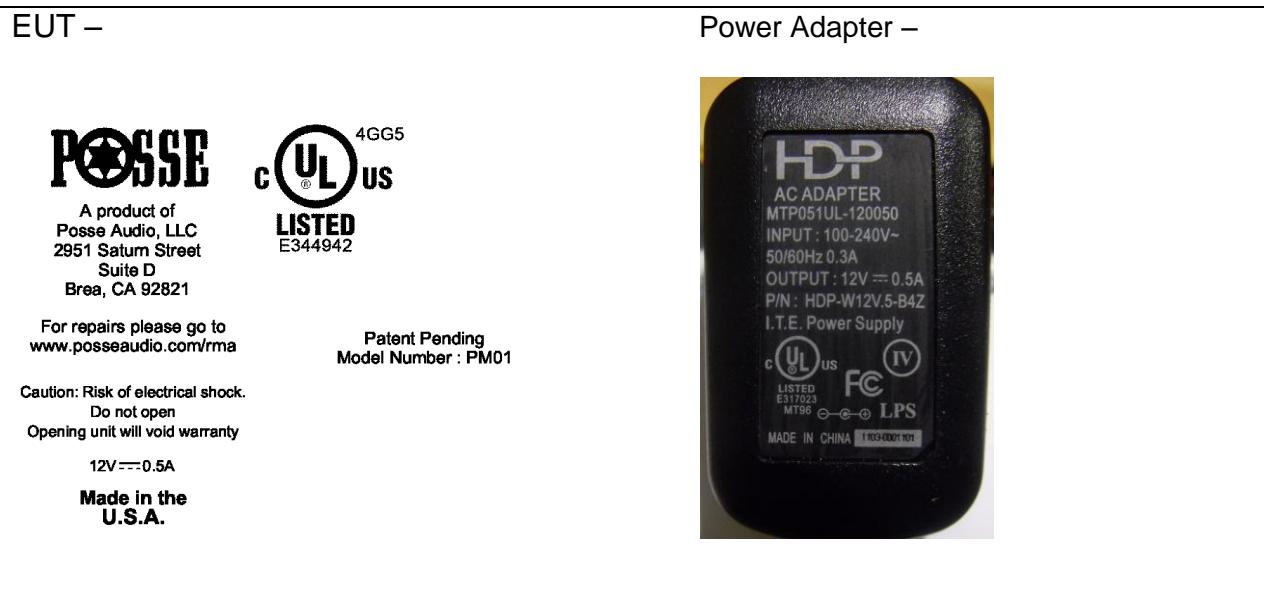
1.0 G E N E R A L - Product Description

1.1 Equipment Description

The EUT allows you to customize your ear monitors from your home or studio. Then, you can bring the EUT to any venue you play.

The EUT is inserted between the performer's vocal mic and/or instrument, and the "house" PA system. The performer can adjust their mix without affecting what the audience and the other band members hear.

1.2 Equipment Marking Plate



1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Audio Mixer	Posse Audio LLC	P.O.S.S.E	None
EUT	Power Adapter	HDP	P/N: HDP-W12V.5-B4Z	None
SIM	Function Generator	HP	33120A	None
SIM	Function Generator	SRS	DS345	None
SIM	Oscilloscope	Tektronix	TDS3052	None
SIM	MP3 Player	Apple	iPod	None
SIM	Speakers	Altec Lansing	MX5020	None

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

1.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	N	N	None
2	PHONES	I/O	N	N	3 Total: 1 on the Belt Box, 2 on the Floor Box
3	AUX IN (Left & Right)	I/O	Y	Y	Balanced or unbalanced 1/4" Instrument or XLR cable
4	MUSIC IN	I/O	N	Y	3.5 mm Cable with mini plug
5	REC OUT	I/O	N	Y	3.5 mm Cable with mini plug
6	INST TO FX	I/O	N	N	Unbalanced 1/4" Instrument cable
7	INST OUT	I/O	Y	Y	Balanced XLR Microphone cable
8	MIC OUT	I/O	Y	Y	Balanced XLR Microphone cable
9	INST PHONE JACK	I/O	Y	Y	Unbalanced 1/4" Instrument cable

Note:
 AC = AC Power Port DC = DC Power Port N/E = Non-Electrical
 I/O = Signal Input or Output Port (Not Involved in Process Control)
 TP = Telecommunication Ports

1.3.3 EUT Internal Operating Frequencies:

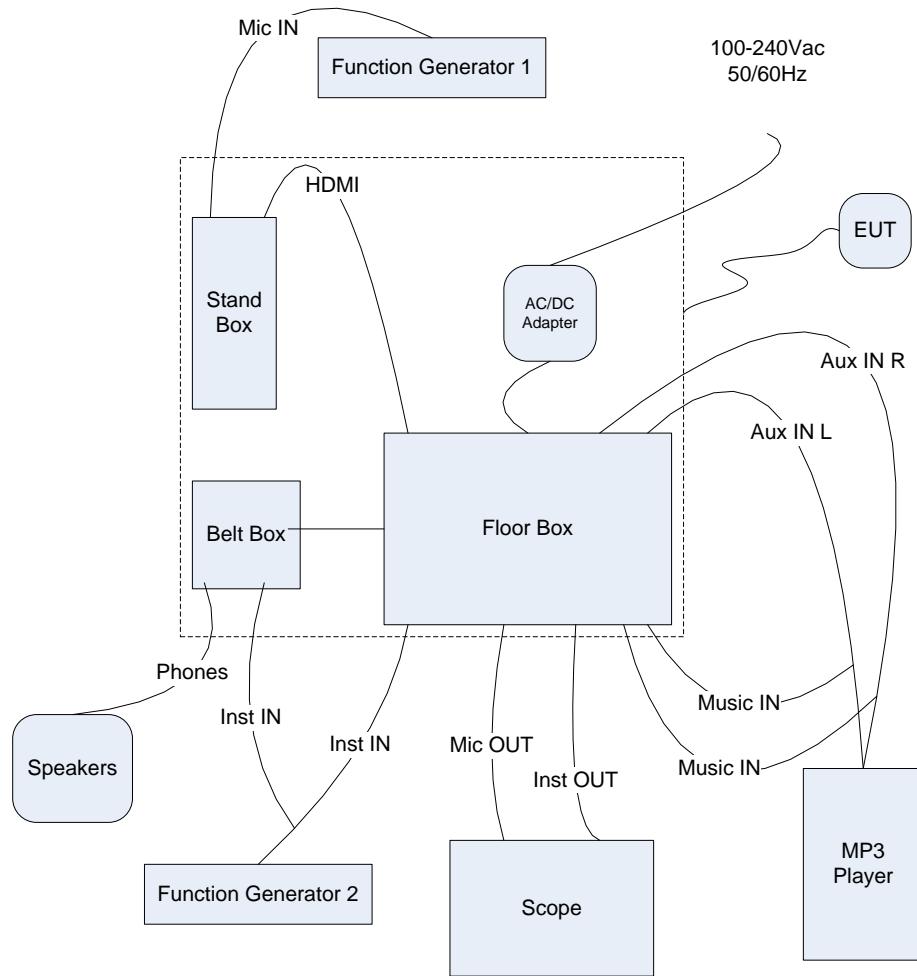
Frequency (MHz)	Description
0.19	Clock

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	120Vac	-	-	60Hz	Single Phase	None
2	230Vac	-	-	50Hz	Single Phase	None
3	Battery	-	-	DC	-	9V Battery to be Used

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	All ports populated as intended. The EUT is powered from a 100-240Vac, 50/60Hz source.
2	All ports populated as intended. The EUT is battery powered using a standard 9V battery.

1.6 EUT Operation Modes

Mode #	Description
1	Various audio sources are used to populate the input ports. Outputs monitored accordingly.

2.0 Summary

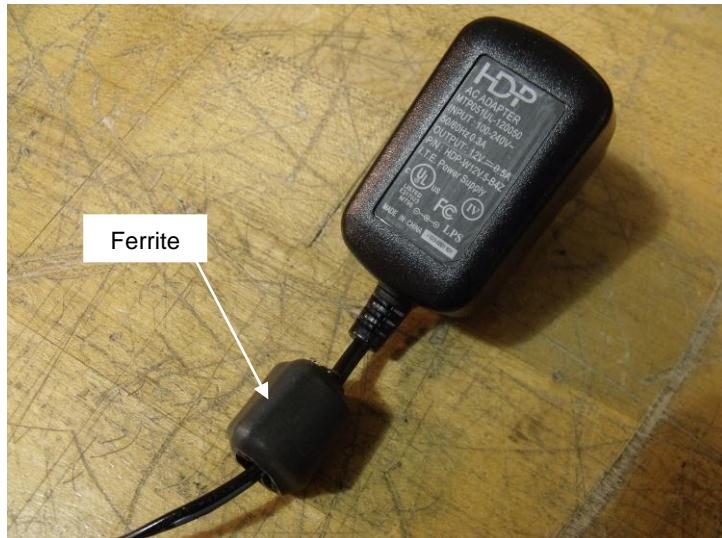
The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL LLC in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

Conducted Emissions: Power adapter was fitted with an external ferrite by the manufacturer.
See photo for details.



2.3 Reference Standards

Standard Number	Standard Name	Standard Date
EN55103-1	Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 1: Emission	2009
EN55103-2	Electromagnetic Compatibility - Product Family Standard for Audio, Video, Audio-Visual and Entertainment Lighting Control Apparatus for Professional Use Part 2: Immunity	2009
EN61000-3-2	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current greater than or equal to 16 A per phase) - IEC 61000-3-2: 2005 + A1: 2008 + A2: 2009	2006 + A1: 2009 + A2: 2009
EN61000-3-3	Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems, for Equipment with Rated Current Less Than or Equal to 16 A per Phase and Not Subject to Conditional Connection	2008

2.4 Results Summary

This product is considered Environment E1 per EN55103-1, -2 (Class B)

Requirement – Test	Result (Compliant / Non-Compliant)*
Radiated Emissions (E-Field)	Compliant
Radiated Emissions (H-Field)	Compliant
Conducted Emissions - Mains	Compliant
Radiated Immunity	Compliant
Electrostatic Discharges	Compliant
Magnetic Immunity	Compliant
Electrical Fast Transients	Compliant
Conducted Immunity	Compliant
Voltage Dips and Interruptions	Compliant
Surge	Compliant
Harmonics	Compliant
Flicker	Compliant
In-Rush	Compliant

Job Number: 1001339833 File Number: E344942 Page 12 of 76
Model Number: P.O.S.S.E
Client Name: Posse Audio LLC

Test Engineer:



Mike Antola (Ext.23053)
Senior Project Engineer
International EMC Services
Conformity Assessment Services

Reviewer:



Bob DeLisi (Ext.22452)
Senior Staff Engineer
International EMC Services
Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Section 5

Internal Production Control

Internal Production Control

(RESERVED)

Section 6

Additional Information

Additional Information

- Electrical Safety Reports (E344942-A2-CB-1)



UL LLC

**E344942-A2-CB-1
EN 60065: 2002 + A1: 2006 + A11: 2008**

For





Ref. Certif. No.

US-17389-UL

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

Personal Onstage Sound Environment System

Name and address of the applicant
Nom et adresse du demandeur

POSSE AUDIO L L C
UNIT D
2951 SATURN ST
BREA CA 92821, USA

Name and address of the manufacturer
Nom et adresse du fabricant

POSSE AUDIO L L C
UNIT D
2951 SATURN ST
BREA CA 92821, USA

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

See Page 2

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

12 V DC; 0.5 A

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



Type of Manufacturer's Testing Laboratories used

Type de programme du laboratoire d'essais

constructeur

Model / Type Ref.

Ref. De type

PM01

Additional information (if necessary may also be
reported on page 2)

Les informations complémentaires (si nécessaire,,
peuvent être indiquées sur la 2^{ème} page)

The CB Test Report comprises 2 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

IEC 60065(ed.7), IEC 60065(ed.7);am1

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

E344942-A2-CB-1 issued on 2011-07-08

This CB Test Certificate is issued by the National Certification Body

Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**



Date: 2011-07-08

Underwriters Laboratories Inc. / GMA Certification Department, US
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* +1 847 664 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US-17389-UL

Factories:

SAS MFG
405 N SMITH AVE
CORONA CA 92880, USA

Additional Information:

Additionally evaluated to EN 60065 (2002) with Am. 1 (2006) and Am. 11 (2008) to include Group and National Differences for European countries; other National Differences also specified in the CB report.

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



Underwriters Laboratories Inc. / GMA Certification Department, US
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* +1 847 664 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Date: 2011-07-08

Signature:

Jolanta M. Wroblewska



Test Report issued under
the responsibility of:



Underwriters
Laboratories

Underwriters Laboratories Inc.

TEST REPORT
IEC/EN 60065

**Audio, video and similar electronic apparatus:
Safety Requirements**

Report Reference No: E344942-A2-CB-1

Date of issue: 2011-07-08

Total number of pages: 25

CB Testing Laboratory: Underwriters Laboratories Inc.

Address: 455 E. Trimble Rd., San Jose, CA, 95131-1230, USA

Applicant's name: POSSE AUDIO L L C

UNIT D

Address: 2951 SATURN ST
BREA CA 92821
UNITED STATES

Test specification:

Standard: IEC 60065:2001 + Amd 1:2005 / EN 60065:2002

Test procedure: CB Scheme

Non-standard test method: N/A

Test Report Form No.: IECEN 60065G

Test Report Form originator: ASTABEAB

Master TRF: 2006-03

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If this test Report is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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 an NCB in accordance with IECEE 02.

Test item description: Personal Onstage Sound Environment System
Trade Mark: 
Manufacturer: POSSE AUDIO L L C UNIT D 2951 SATURN ST BREA CA 92821 UNITED STATES
Model/Type reference: PM01
Rating: 12 V DC, 0.5 A

Testing procedure and testing location: **CB Testing Laboratory**

Testing location / address..... :

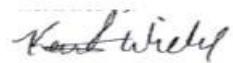
 Associated CB Test Laboratory

Testing location / address..... : Underwriters Laboratories Inc. 2929 Imperial Hwy, Ste 100, Brea, CA, 92821, USA

Tested by (name + signature) : Luis Gonzalez



Approved by (+ signature) : Keith Wiebe

 **Testing Procedure: TMP**

Tested by (name + signature) :

Approved by (+ signature) :

Testing location / address..... :

 Testing Procedure: WMT

Tested by (name + signature) :

Witnessed by (+ signature)..... :

Approved by (+ signature) :

Testing location / address..... :

 Testing Procedure: SMT

Tested by (name + signature) :

Approved by (+ signature) :

Supervised by (+ signature) :

Testing location / address..... :

 Testing Procedure: RMT

Tested by (name + signature) :

Approved by (+ signature) :

Supervised by (+ signature) :

Testing location / address..... :

List of Attachments

National Differences (58 pages)

Enclosures (15 pages)

Summary Of Testing

Unless otherwise indicated, all tests were conducted at Underwriters Laboratories Inc. 2929 Imperial Hwy, Ste 100, Brea, CA, 92821, USA.

Tests performed (name of test and test clause)	Testing location / Comments
Test Conditions	
Input - Apparatus Employing Signal Inputs and Not	

- Containing an Audio Amplifier (4.2)
- Fault Conditions - General (4.3)
- Fault Conditions - Clearance and Creepage, Insulating Materials and Electronic Components (4.3.1, 4.3.2, 4.3.4)
- Fault Conditions - Output Terminal Overload (4.3.9)
- Marking Durability and Legibility (5)
- Heating Under Normal Operating Conditions (7)

Summary of Compliance with National Differences:

List of countries addressed: AR, AT, AU, BE, BG, CA, CH, CN, CY, CZ, DE, DK, EE, ES, EU, FI, FR, GB, GR, HU, IE, IS, IT, JP, KR, LT, LU, LV, MT, MY, NL, NO, NZ, PL, PT, RO, SE, SG, SI, SK, UA, US

The product fulfills the requirements of: N/A

Copy of Marking Plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



A product of
Posse Audio, LLC
2951 Saturn Street
Suite D
Brea, CA 92821



For repairs please go to
www.posseaudio.com/rma

Patent Pending
Model Number : PM01

Caution: Risk of electrical shock.
Do not open
Opening unit will void warranty

12V---0.5A

**Made in the
U.S.A.**

Test item particulars :	
Classification of installation and use	Professional, Tabletop
Supply connection	Supply apparatus for general use
Possible test case verdicts:	
- test case does not apply to the test object	N / A
- test object does meet the requirement	P(Pass)
- test object does not meet the requirement	F(Fail)
Testing:	
Date(s) of receipt of test item	2011-04-18
Date(s) of Performance of tests	2011-06-03 to 2011-06-20
General remarks:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.	
"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.	
Throughout this report a point is used as the decimal separator.	
Manufacturer's Declaration per SubClause 6.25 of IEC60065-2:	
The application for obtaining a CB Test Certificate includes more than one factory and a declaration form the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	Not Applicable
When differences exist, they shall be identified in the General Product Information section.	
Name and address of Factory(ies):	
SAS MFG 405 N SMITH AVE CORONA CA 92880 UNITED STATES	

GENERAL PRODUCT INFORMATION:

Report Summary

All applicable tests according to the referenced standard(s) have been carried out.

Product Description

This product is a Personal Onstage Sound Environment System.

Model Differences

N/A

Additional Information

This product was evaluated and tested for use with an external Supply Apparatus for General Use. The external power supply was not part of this investigation. However, the system may include a power supply with it. The manufacturer can provide Certification information on the external Power Supply upon request.

Technical Considerations

- Equipment class: N/A - Powered by an external Power Supply
- The product was investigated to the following additional standards: EN 60065:2002 + A1:2006 + A11:2008