

Manual
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 **REXOTECH**

Germany

AudioVine

Low Distortion Sine Generator

AV 2012B

Manual

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Free

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1.0 General Inspection

When you get a new AV 2012 B Oscillator, you are suggested to take the following steps to inspect the instrument.

1.1 Inspect the shipping carton for damage

If there are damages in the packing or foam, keep them until the whole instrument passing the electrical and mechanical test

1.2 Inspect the instrument

In case any mechanical damage or defect, or if the instrument does not operate properly or performance tests, **notify** your **Rexotech** sales representative:**shop@rexotech.com**

The consigner or carrier shall be liable for the damage to the instrument resulting from shipment. Rexotech would not be responsible for free maintenance/rework or replacement of the unit.

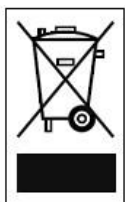
1.1 Symbols In This Manual



Symbol 1:	Attention - refer to manual
Symbol 2:	Danger – High Voltage
Symbol 3:	Protective Ground
Symbol 4:	Attention
Symbol 5:	Stop! Possible damage to the equipment



The CE mark is a registered trademark of the European Community. To meet this mark the instrument has fulfilled the EMV / ESD standards.



This product complies with the WEEE Directive (2002/96/EC) marking equipment. The affixed product label indicates that you must not discard this electrical /electronic product in domestic household waste. To return unwanted products contact your Rexotech Office.



The FCC mark is a registered Trademark of the Federal Communications Commission. This Product complies to the requirements. Own laboratory test.

1.2 Terms

In this Manual:

CAUTION statements identify conditions or practices that could result in damage to the equipment / instrument or other property.

WARNING statements identify conditions or practices that could result in personal injury or loss of life.

As Marked on Equipment

CAUTION indicates a personal injury hazard not immediately accessible as one reads the marking, or a hazard to property including the equipment itself.

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

POWER SOURCE

This product is intended to operate:

- with an 2.5 mm female 12 Volt / 1 Ampere DC Mains Adapter
- with an at least 12 Volt / 1 Ampere Bench Power supply

A quality Mains Adapter / Bench Supply is **essential for safe operation.**

1.3 Safety Notices

Review the following precautions carefully before operating the instrument to avoid any personal injury or damage to the instrument or products connected to it.

To avoid potential hazards, use the instrument in the manner specified in this user's guide.

No serviceable parts inside: The instrument should be serviced only by qualified personnel

Avoid Fire or Personal Injury.

Use Proper Power Supply's as specified in this manual and disconnect it when not in use.

Observe all the Ratings and Symbols on the instrument /terminal.

To avoid fire or shock, observe all the ratings and symbols that are marked on the instrument. Read the manual carefully before making connections to the instrument.

Use an oscilloscope or other proper instruments to get familiar with the instrument operation.

Do not operate your instrument without Covers or Panels.

Do not operate the instrument with suspected failures.

If you suspect there is a damage with this product, have it inspected by qualified personnel authorized by Rexotech before further operations.

Provide proper Ventilation

Do not operate in Wet / Damp conditions or in an Explosive Atmosphere.

Keep the Product's Surfaces Clean and Dry.

2.0 Instrument at a Glance

AudioVine AV 2012B

Introduction

The AudioVine AV 2012B Sine Oscillator adopts a Phase Shift Oscillator with an improved AGC two loop stabilizing system.

Alps pots / switches and Wima caps combined with a high efficiency AGC to meet today's high-end development.

The AV 2012B provides four overlapping bands from 10 Hz to 100 kHz.

The AudioVine AV 2012B is perfect for: High quality 24 bit ADC tests, Op Amp and Amplifier testing, THD / Power measurements, Instrument verification / calibration and by its space saving size: perfect for field applications.

The AV 2012B offers two 50 Ω unbalanced and 50 Ω balanced outputs.

The Instrument provides a standard 2.5mm DC-IN connector for a standard 12Vdc/1A wall mains adapter.

The AudioVine AV 2012B Oscillator is capable of generating high quality low distortion sine wave signals together with a flat noise floor:

THD+N Ratio \leq 105dB / 0.0005% @ 1 kHz 4dBu into 600R
Audio Precision APx555 tested.

-Please refer to the AV 2012B Datasheet

AudioVine – Das Instrument

2.1 Frontpanel

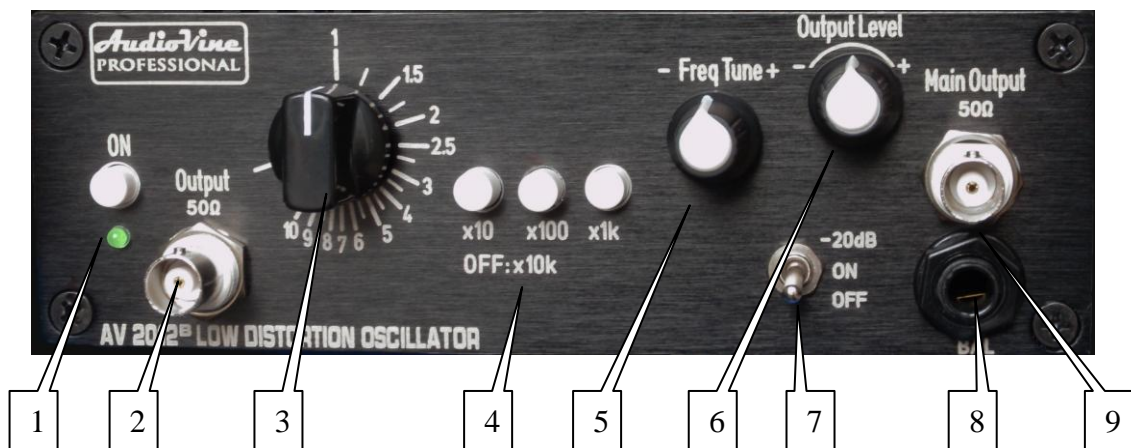


Fig. 1

- [1] **Instrument ON Switch**
Instrument turns on by switching the ON pushbutton. Power LED lights up. Instrument is on and ready to use.
- [2] **Second Output**
50 Ω unbalanced buffered.
- [3] **Frequency adjustment knob**
Set the output sine frequency.
- [4] **Frequency band selection**
The pushbutton selects the frequency range. By pressing all out the x10k range is selected.
- [5] **Frequency tuning**
Provides a frequency fine tuning of about $\pm 1\%$ of the actual setting
- [6] **Output Level Adjustment.**
Sets the Output level for all three Outputs.
- [7] **ON / OFF / -20dB**
Turns on/off all three AV 2012B outputs. The -20dB attenuator option applies on all channels.
- [8] **BAL / Balanced Output**
Neutrik 50 Ω balanced output for a $\frac{1}{4}$ " TRS 6.3mm Stereo Jack male connector
- [9] **Unbalanced Main Output**
50 Ω unbalanced BNC Output.

WARNING:

Make sure the proper output level is adjusted before turning the instrument on or set the Switch [7] to OFF state.

2.2 Backpanel



- [1] DC-IN : Input for 2,5 mm female wall mains adapter 12 Volt DC/1,0 A
Input voltage Range:12Vdc – 25Vdc max

Attention:

Use only quality mains adapter or bench power supply. Take care to switch of the mains wall adapter when the instrument is not in use.

EMV/EMC Conformity Declaration

Gemäß ISO/IEC Guide 22 und CEN/CEBELEC EN 45014

Name des Herstellers: Rexotech GmbH

Adresse des Herstellers: Rahmkeweg 41
33758 Schloß Holte- Stukenbrock
Deutschland

Der Hersteller erklärt, dass das Produkt

Name des Produkts: Low Distortion Oscillator
Modellnummer: AudioVine AV 2012 B
Produktoptionen: Diese Erklärung bezieht sich auf alle Produktoptionen des oben genannten Produkts.

den folgenden europäischen Direktiven entspricht:

Das vorliegende Produkt genügt den Anforderungen der Niederspannungsrichtlinie 73/23/EEC sowie der EMC-Richtlinie 89/336/EEC (einschließlich 93/68/EEC) und trägt demgemäß die CE-Kennzeichnung.

den folgenden europäischen Produktnormen entspricht:

EMC	NORM	Kriterien/Einheiten/Prüfstörgrößen
	ESD: EN 61000-4-2:1995+A1:1998+A2:2001	Case: ± 8kV Luftentladung Case /Koppelplatte: ± 4kV Kontaktenladung
	Burst: EN 61000-4-3:2006+A1:2008 EN 61000-4-4:2004	: (5/50ns) Signalleitung : ± 0.5kV : (5/50ns) Netzeingänge: ± 1kV
	Surge: EN 61000-4-5:2006	:Netzeingänge(8/20us), asymmetrisch: ± 2kV :Netzeingänge(8/20us), symmetrisch: ± 1kV
	HF-Einspeisung: 0,15..230MHz EN 61000-4-5:2007	:80% AM, 1kHz, 3V effektiv unmoduliert
	Netzspannungseinbrüche: EN61000-4-11:2004	:Einbrüche:40% Un 70% Un :Unterbrechungen: 0% Un für 0.5 Perioden der Nennfrequenz

Safety

IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1993+A2:1995

16.02.2017

Datum

Dipl.-Ing.(FH) Andreas Bröckling
CEO

3 Notices

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