

IR SIGNAL ANALYZER

Ideal for testing IR Frequency, Strength, Voltage and Pinout



**Vanco Part Number:
EVIRTEST**

IR Signal Analyzer

EVOLUTION
BY 

www.vanco1.com • 800.626.6445

DEAR CUSTOMER

Thank you for purchasing this product.
For optimum performance and safety, please
read these instructions carefully before connecting, operating or
adjusting this product. Please keep this manual for future reference.

This product is 100% inspected and tested in the United States to verify
HDMI performance parameters.

WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.
2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
3. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.
4. Do not install near any source of heat, including other units that may produce heat.
5. Do not place unit near flames.
6. Only clean unit with a dry cloth.
7. Unplug unit during lightening storms or when not used for an extended period of time. A surge protector is strongly recommended.
8. Protect the power cord from being walked on or pinched, particularly at the plugs.
9. Use unit only with accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel.

CAUTION

HDMI is a very complex technology requiring continuous authentication of the signal and the same video resolution and audio settings on all electronic equipment in the system. When there are multiple sources and displays, the video resolution and audio setting on all connected units must be adjusted to correspond with that of the display having the lowest video and audio capability.

FEATURES

IR Signal Analyzer

Part # EVIRTEST

- Convenient, hand held IR Signal Analyzer for testing IR Frequency, Strength, Voltage, and Pinout
- Ideal for troubleshooting IR signal deficiencies
- Point and shoot to test IR Frequency on any remote
- Measures signal strength to identify strong and weak spots throughout an installation area
- Pinpoints IR Signal Voltage measurement
- Provides IR-RX Pinout (Power, Ground, Signal) Ideal for mixed IR applications

PACKAGE CONTENTS

- EVIRTEST Signal Analyzer
- IR Receiver
- 3.5mm Stereo cable
- Product manual

SPECIFICATIONS

Role of usage	IR Measurement / Test Analyzer
IR Strength	8-Level shift indication
IR Frequency	20KHZ - 60KHZ
IR Voltage	0V - 36V
Control	Push Button
ESD protection	Human body model — $\pm 15\text{kV}$ (air-gap discharge) & $\pm 8\text{kV}$ (contact discharge)
Input	1x 3.5mm Stereo jack (IR-RX IN) -> IR Ext. (measures IR Strength & Frequency) 1x 3.5mm Stereo jack (IR-RX IN) -> IR Pin Config (measures IR Voltage & Pin Configuration)
USB Support	For power feeding / Firmware update
USB Connector	Future Development
Housing	Metal enclosure
Dimensions (L x W x H)	78 x 120 x 25.5mm (3.7" x 4.7" x 1")
Power supply	External via Mini-USB (5V)/Alkaline 9V transistor battery (sold separately)
Operation temperature	0~40°C [32~104°F]
Storage temperature	-20~60°C [-4~140°F]
Relative humidity	20~90% RH (no condensation)

PANEL DESCRIPTIONS



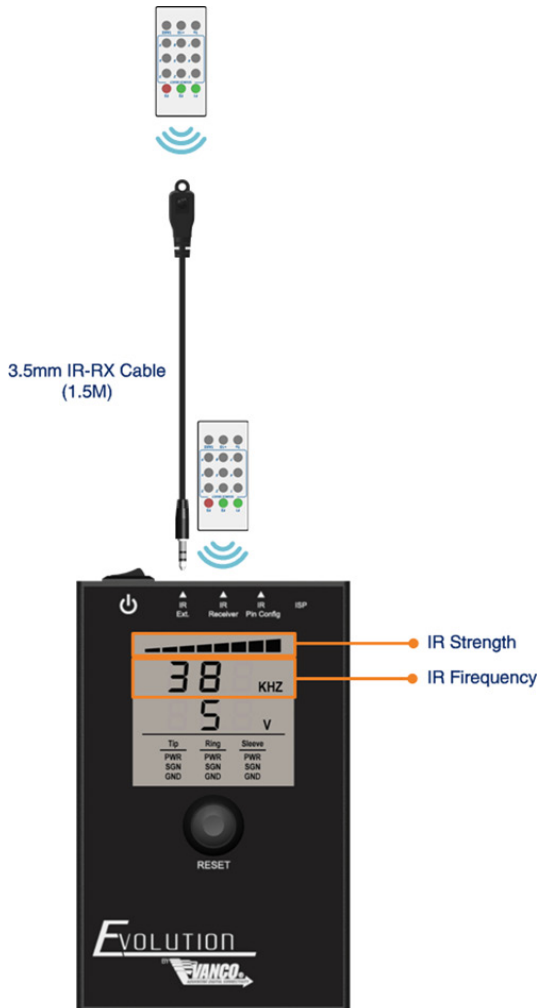
1. LED: Indicate IR Signal Strength, Indicate IR Frequency, Indicate IR Signal Voltage, Indicate IR-RX Pin Configuration (Power/ Signal/ Ground) 3.5mm jack: Test the IR frequency carried from plugged IR-RX cable
2. Push Button: Reset the measurement
3. Mini-USB : Feed Power / Firmware update
4. 3.5mm Jack: measure IR Voltage and Pin Configuration
5. IR Sensor: measure IR Strength and IR Frequency
6. 3.5mm Jack: Extend IR Sensor, to measure IR Strength and IR Frequency
7. Power Switch

Note: Not pictured - Battery holder, on underside of the Analyzer: Place an alkaline 9V transistor battery here

CONNECTION DIAGRAM

Measure IR Strength & IR Frequency:

Either point the remote control at the built in IR Receiver port on the tester OR connect the provided external IR Receiving cable into the IR EXT port of the tester. Remember to press the RESET button between tests.

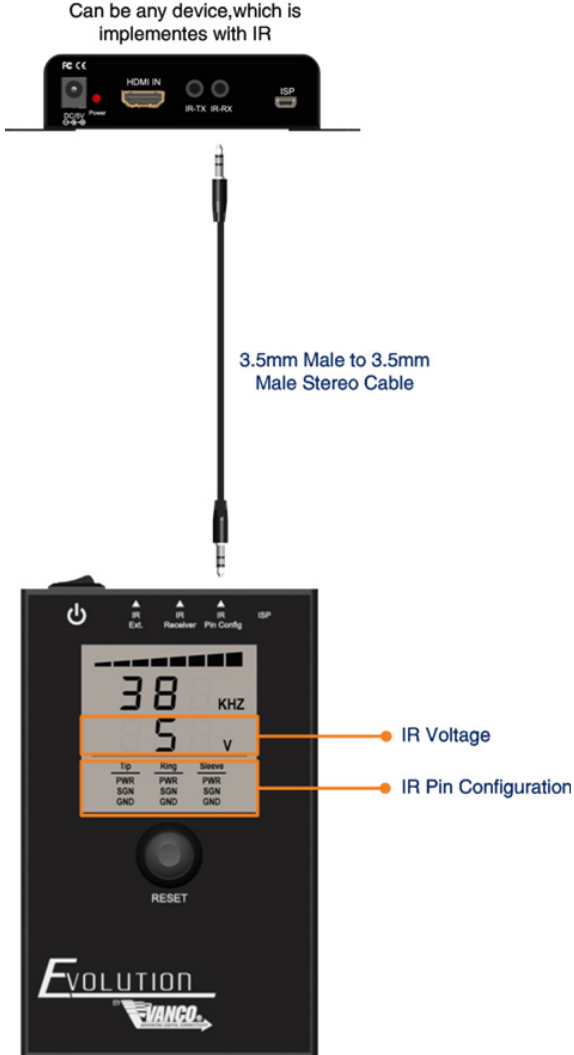


NOTE: If a remote is pointing at the IR EXT and internal IR Receiver, you may experience inconsistent results.

CONNECTION DIAGRAM

Measure IR Voltage & IR Pin Configuration:

Use a 3.5mm Stereo cable to connect the IR port of an external device to the IR PIN OUT port of the tester. Power on the device and voltage and pinout of the product will be determined. Remember to press the RESET button between tests.



SAFETY AND NOTICE

The EVIRTEST has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the EVIRTEST should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit.
- Always unplug the power to the device before cleaning.

LIMITED WARRANTY

With the exceptions noted in the next paragraph, Vanco warrants to the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in Vanco's opinion, prove defective within this warranty period, Vanco, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of Vanco. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into Vanco products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to Vanco. A surge protector, power conditioner unit, or an uninterruptible power supply must be installed in the electrical circuit to protect against power surges.

If repairs are needed during the warranty period the purchaser will be required to provide a sales receipt/sales invoice or other acceptable proof of purchase to the seller of this equipment. The seller will then contact Vanco regarding warranty repair or replacement.

TECHNICAL SUPPORT

In case of problems, please contact Vanco Technical Support by dialing 1-800-626-6445. You can also email technical support issues to techsupport@vanco1.com.

When calling, please have the Model Number, Serial Number (affixed to the bottom of the unit) and Invoice available for reference during the call.

Please read this Instruction Manual prior to calling or installing this unit, since it will familiarize you with the capabilities of this product and its proper installation.


All active electronic products are 100% inspected and tested to insure highest product quality and trouble-free installation and operation. The testing process utilizes the types of high-definition sources and displays typically installed for entertainment and home theater applications.

For additional information, such as helpful installation videos, etc. please visit www.vanco1.com

LIABILITY STATEMENT

Every effort has been made to ensure that this product is free of defects. The manufacturer of this product cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user and installer of the hardware to check that it is suitable for their requirements and that it is installed correctly. All rights are reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

Manufacturer reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.



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