



# IR Measurement & Analyzer



P/N: AV-GM0953-S1



## Safety and Notice

The **AV-GM0953-S1 IR Measurement & Analyzer** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the **AV-GM0953-S1** 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.



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# INTRODUCTION

The **AV-GM0953-S1 IR Measurement & Analyzer** is a low cost pocket size, hand-held, battery supported device which can measure & test IR signals. User can use AV-GM0953-S1 to set up quickly and accurately and verify the frequency & strength of the IR signal. Users can use the AV-GM0953-S1 to measure the IR signal during setup and get the installation done quickly and efficiently.

## FEATURES

- IR Frequency measurement
- IR Strength measurement
- IR Jack Power Voltage measurement
- IR Jack Pin Configuration
- Supports IR-RX cable to extend the testing distance
- Power Supply: Mini-USB (5V) or Alkaline 9V transistor battery
- Hand-held pocket size

## PACKAGE CONTENTS

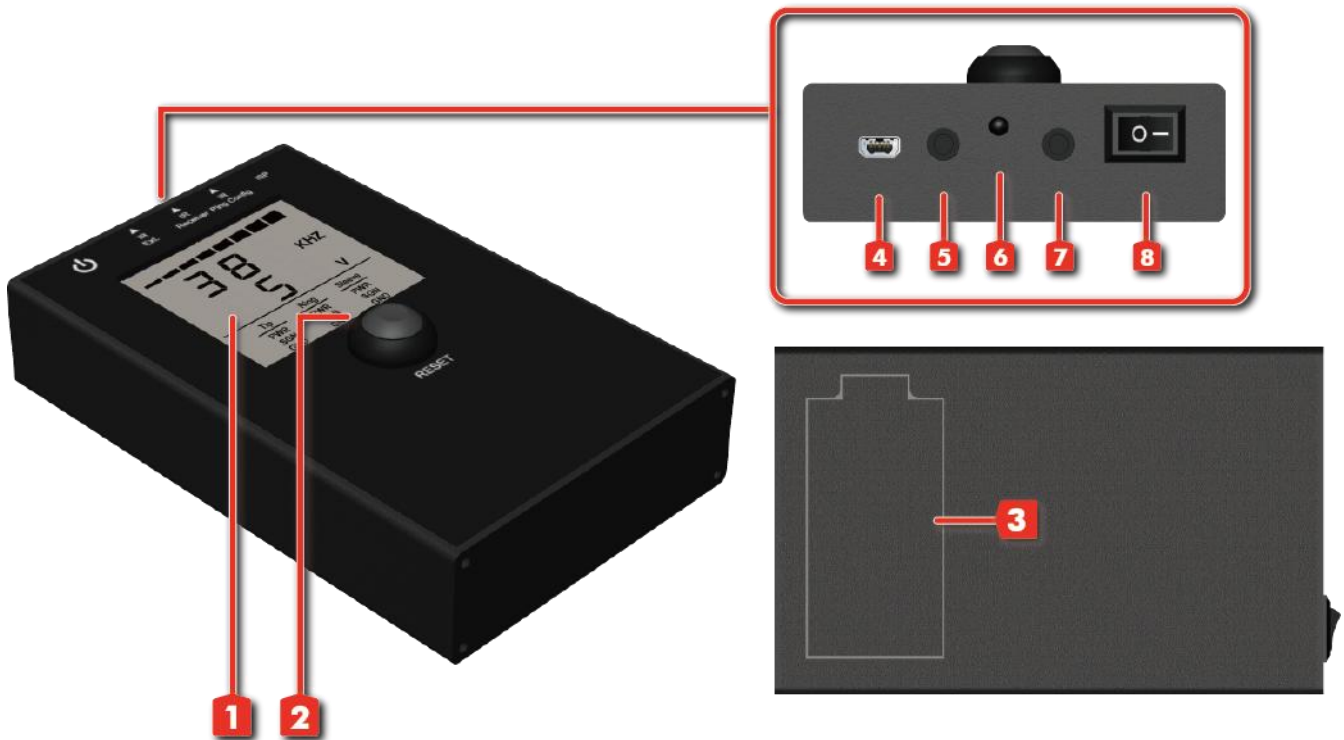
- 1x AV-GM0953-S1
- 1x IR-RX Cable (30KHz-56KHz)
- 1x User Manual

# SPECIFICATIONS

Model Name		AV-GM0953-S1
Technical		
Role of usage		IR Measurement & 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 earphone jack (IR-RX IN) -> IR Ext. (measure IR Strength & Frequency) 1x 3.5mm earphone jack (IR-RX IN) -> IR Pin Config (measure IR Jack Power Voltage & Pin Configuration)
USB Support		For power feeding / Firmware update
USB Connector		mini-USB
Mechanical		
Housing		Metal enclosure
Dimensions [L x W x H]	Model	78 x 120 x 25.5mm [3.7" x 4.7" x 1"]
	Package	165 x 111 x 42mm [6.4" x 4.4" x 1.7"]
	Carton	490 x 426 x 352mm [1'6" x 1'4" x 13.8"]
Weight	Model	203g [7.1oz]
	Package	273g [9.6 oz]
Power supply		Mini-USB (5V) / Alkaline 9V transistor battery
Power consumption		0.1 Watts [max]
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

## Front / Rear Panel



### 1. LCD

- Indicate "IR Signal Strength"
- Indicate "IR Frequency"
- Indicate "IR Jack Power Voltage"
- Indicate "IR Jack Pin Configuration (Power/ Signal/ Ground)"

### 2. Push Button: Clean the measurement

### 3. Battery holder: Place an alkaline 9V transistor battery here

### 4. Mini-USB : Feed Power / Firmware update

### 5. 3.5mm Jack: measure IR Jack Power Voltage and Pin Configuration

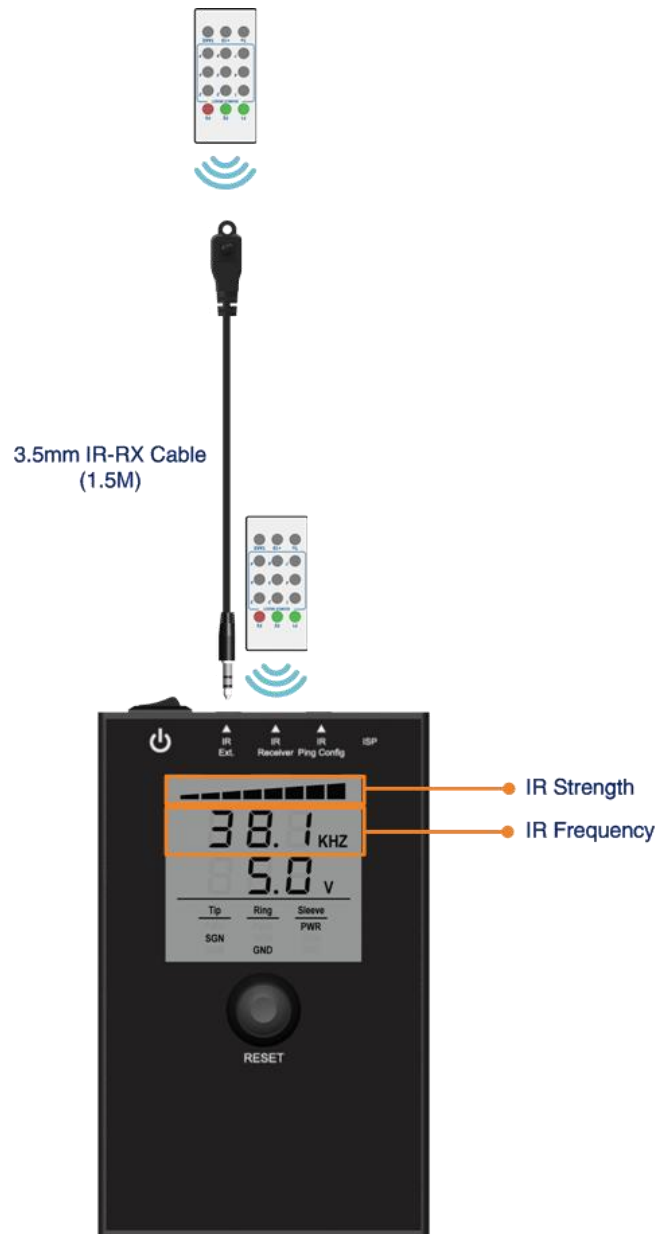
### 6. IR Sensor: measure IR Strength and IR Frequency

### 7. 3.5mm Jack: Extend IR Sensor, to measure IR Strength and IR Frequency

### 8. Power Switch

# CONNECTION DIAGRAM

## 1) Measure IR Strength & IR Frequency



## 2) Measure IR Jack Power Voltage & Pin Configuration

# WARRANTY

The SELLER warrants the **AV-GM0953-S1 IR Measurement & Analyzer** to be free from defects in the material and workmanship for 3 years from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 3 years warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surges.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables are limited to a 30 day warranty and cable must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. **Also, the technical information contained herein regarding the AV-GM0953-S1 features and specifications is subject to change without further notice.**

## Support

For more info or tech support  
<http://www.siig.com/support>