

## AVMATRIX SC1112

# AVmatrix SC1112 3G-SDI to HDMI Mini Converter User Manual

Model: SC1112

## 1. OVERVIEW

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The AVmatrix SC1112 is a compact and portable 3G-SDI to HDMI Mini Converter designed for converting SDI signals to HDMI. It features full-size SDI and HDMI connectors for convenience and supports various SDI signal formats up to 1080p60. Its universal USB power solution makes it suitable for both indoor and outdoor applications.

This manual provides detailed instructions for setting up, operating, and maintaining your SC1112 converter, along with specifications and troubleshooting tips.

## 2. PRODUCT FEATURES

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- **SDI to HDMI Conversion:** Converts 3G-SDI, HD-SDI, and SD-SDI signals to HDMI output.
- **SDI Loop-out:** Includes an SDI loop-out for monitoring or connecting to other SDI devices.
- **Automatic Signal Detection:** Automatically detects SD/HD/3G-SDI signals up to 1080p60.
- **Level A and Level B Support:** Compatible with both Level A and Level B SDI formats.
- **Universal USB Power:** Powered via Micro USB, allowing use with power banks, laptops, or standard USB power adapters.
- **Compact Design:** Pocket-sized and lightweight for easy portability and mounting.
- **Full-Size Connectors:** Equipped with full-size SDI and HDMI connectors for reliable connections.

## 3. PACKAGE CONTENTS

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Please check the package for the following items:

- AVmatrix SC1112 3G-SDI to HDMI Mini Converter
- Micro USB Power Cable
- Mounting Bracket (detachable)
- User Manual (this document)

## 4. PRODUCT DIAGRAM

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Familiarize yourself with the ports and indicators on the SC1112 converter.



Image: Top-down view of the AVmatrix SC1112 Mini Converter, showing the SDI IN, SDI LOOP OUT, HDMI OUT, POWER LED, and USB ports.

- **SDI IN:** Connect your 3G-SDI, HD-SDI, or SD-SDI source here.
- **SDI LOOP OUT:** Provides a re-clocked loop-through of the SDI input signal.
- **HDMI OUT:** Connect to an HDMI display, projector, or other HDMI-compatible device.
- **POWER LED:** Indicates power status. Illuminates when the device is powered on.
- **USB:** Micro USB port for power supply (5V DC).

## 5. SETUP INSTRUCTIONS

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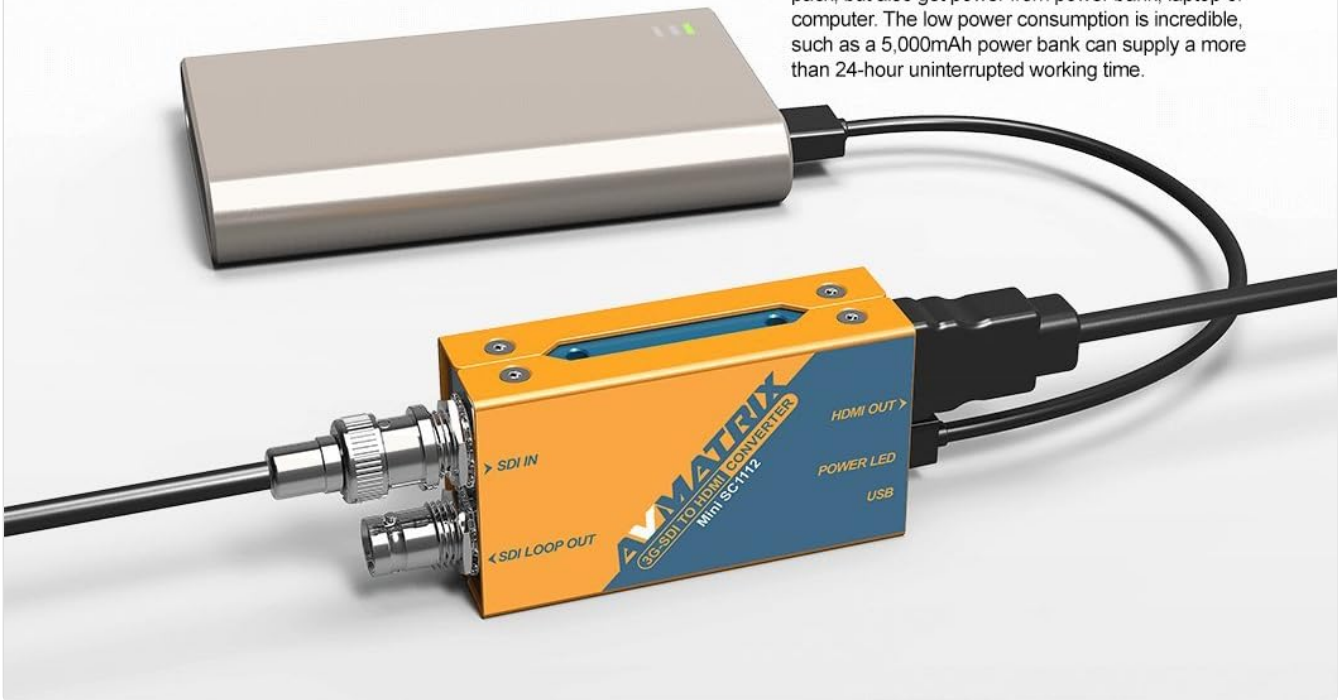
Follow these steps to set up your AVmatrix SC1112 converter:

1. **Connect SDI Source:** Connect your SDI source device (e.g., camera, video switcher) to the **SDI IN** port on the SC1112 using a 75-ohm BNC cable.
2. **Connect HDMI Display:** Connect an HDMI cable from the **HDMI OUT** port on the SC1112 to the HDMI input of your display device (e.g., monitor, TV, projector).
3. **(Optional) SDI Loop-out:** If you need to loop the SDI signal to another device, connect a BNC cable from the **SDI LOOP OUT** port to the input of the next SDI device.
4. **Apply Power:** Connect the provided Micro USB power cable to the **USB** port on the SC1112 and the other end to a 5V USB power source (e.g., USB power adapter, power bank, computer USB port). The POWER LED will illuminate.

The converter will automatically detect the input SDI signal and convert it to HDMI. Ensure all cables are securely connected.

## Powered Anywhere

Featured with universal USB power solution design, avmatrix mini converter can be powered by Micro USB connection; it can not only connect with DC power plug pack, but also get power from power bank, laptop or computer. The low power consumption is incredible, such as a 5,000mAh power bank can supply a more than 24-hour uninterrupted working time.



*Image: The AVmatrix SC1112 Mini Converter connected to a portable power bank via its Micro USB port, illustrating its universal power solution.*

## 6. OPERATING INSTRUCTIONS

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The AVmatrix SC1112 is designed for simple plug-and-play operation.

- Once all connections are made and power is supplied, the converter will automatically begin processing the SDI input signal.
- The **POWER LED** indicates that the device is receiving power.
- Ensure your HDMI display is set to the correct input source to view the converted signal.
- The converter supports various SDI formats including SD-SDI, HD-SDI, and 3G-SDI, and will output a corresponding HDMI signal.



## Pocket Size and Easy to Mount

Miniature design makes it portable for indoors and outdoors. It's possible to put into pocket and take to anywhere. With a convenient and detachable mounting bracket, it is also available in different application scenarios.



Image: A person placing the AVmatrix SC1112 Mini Converter into a pocket, highlighting its compact and portable design for easy transport.

## 7. SPECIFICATIONS

Feature	Detail
HDMI Video Input	HDMI Type A x 1
SDI Video Output	SD/HD/3G-SDI
SDI Video Rate	SD/HD/3G-SDI
SDI Video Loop Output	SD/HD/3G-SDI x 1
HDMI Color Space and Precision	YUV 4:2:2
Power	Micro USB (5V DC)
Power Consumption	1.5W
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-30°C to 70°C (-22°F to 158°F)
Relative Humidity	0° to 90° Non-condensing
Dimensions (H x W x D)	0.9" x 2.91" x 1.61" (2.29 cm x 7.39 cm x 4.09 cm)
Weight	0.88 Pounds (0.39 Kilograms)
Compatible Devices	Projector, Television
Model Number	SC1112
UPC	759126760151

## 8. TROUBLESHOOTING

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If you encounter issues with your AVmatrix SC1112, refer to the following troubleshooting guide:

- **No Video Output on HDMI Display:**
  - Ensure the SC1112 is powered on (POWER LED illuminated).
  - Verify all SDI and HDMI cables are securely connected.
  - Check if the HDMI display is set to the correct input source.
  - Confirm the SDI source is active and outputting a valid signal.
  - Try a different HDMI cable or display to rule out cable/display issues.
- **Intermittent Video Signal / Blinking:**
  - Ensure the power supply is stable and sufficient (5V). Try a different USB power source.
  - Check SDI cable quality and length. Long or low-quality SDI cables can cause signal degradation.
  - Verify the SDI input signal is within the supported specifications (SD/HD/3G-SDI up to 1080p60).
- **No Signal on SDI Loop Out:**
  - Ensure a valid SDI signal is connected to the **SDI IN** port. The loop-out is dependent on a valid input.
  - Check the BNC cable connecting to the loop-out device.

## 9. MAINTENANCE

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To ensure the longevity and optimal performance of your AVmatrix SC1112 converter, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Storage:** Store the converter in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.
- **Power Supply:** Always use a stable 5V DC power source. Disconnect power when the device is not in use for extended periods.
- **Ventilation:** Ensure the device has adequate ventilation and is not covered, although its low power consumption minimizes heat generation.

## 10. WARRANTY AND SUPPORT

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AVMATRIX products are designed for reliability and performance. For warranty information and technical support, please refer to the official AVMATRIX website or contact your local distributor.

Please retain your proof of purchase for warranty claims.

**Manufacturer:** LILLIPUT

**Brand:** AVMATRIX

**Model:** SC1112