

# USER MANUAL

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## HDMI Surge Protector

(ESD, Lightning, Surge, EFT Protection)

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## INTRODUCTION

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.

Our series of HDMI Converters, switchers, extenders, matrixes and splitters are designed to make your A/V device use more convenient, more comfortable, more productive and more cost-efficient.

The HDMI surge protector is designed for protect the HDMI device that against with the static discharge, lighting surge, electrical fast transient burst. It is all active at all TMDS/DDC/HPD and CEC channels of connected HDMI signals and it can do final defense for ESD and Lighting Surge.

Our devices offer solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

## FEATURES

- Protect HDMI input and output for ESD and Lightning Surge
- Meets IEC 61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact).
- Meets IEC 61000-4-4 (EFT) 40A (5/50ns).
- Meets IEC 61000-4-5 (Lightning) 5A (8/20 $\mu\text{s}$ ).
- Support HDMI 1.4 with 3D, 4KX2K and HEAC.
- Solid-state silicon-avalanche technology.
- Support HDCP
- No loss of quality
- Installs in minutes
- No Need Power Adaptor

**The accessories with the machines lists are as pictured:**

1. 1 HDMI Surge Protector
2. 1 Manual
3. 1 Ground Wire
4. 1 Groundnd Screw

**Physical Connection as pictured:**

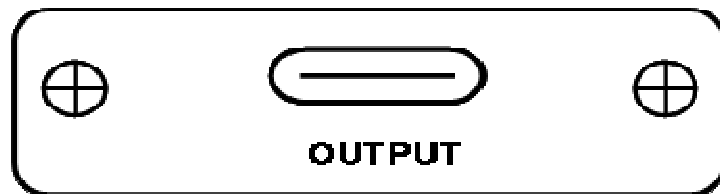


Figure 1.0 Front Panel Showing Picture

OUTPUT: HDMI output interface

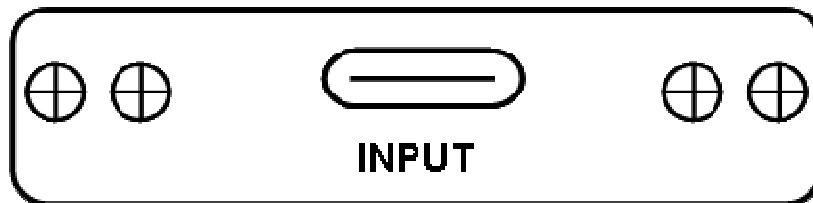
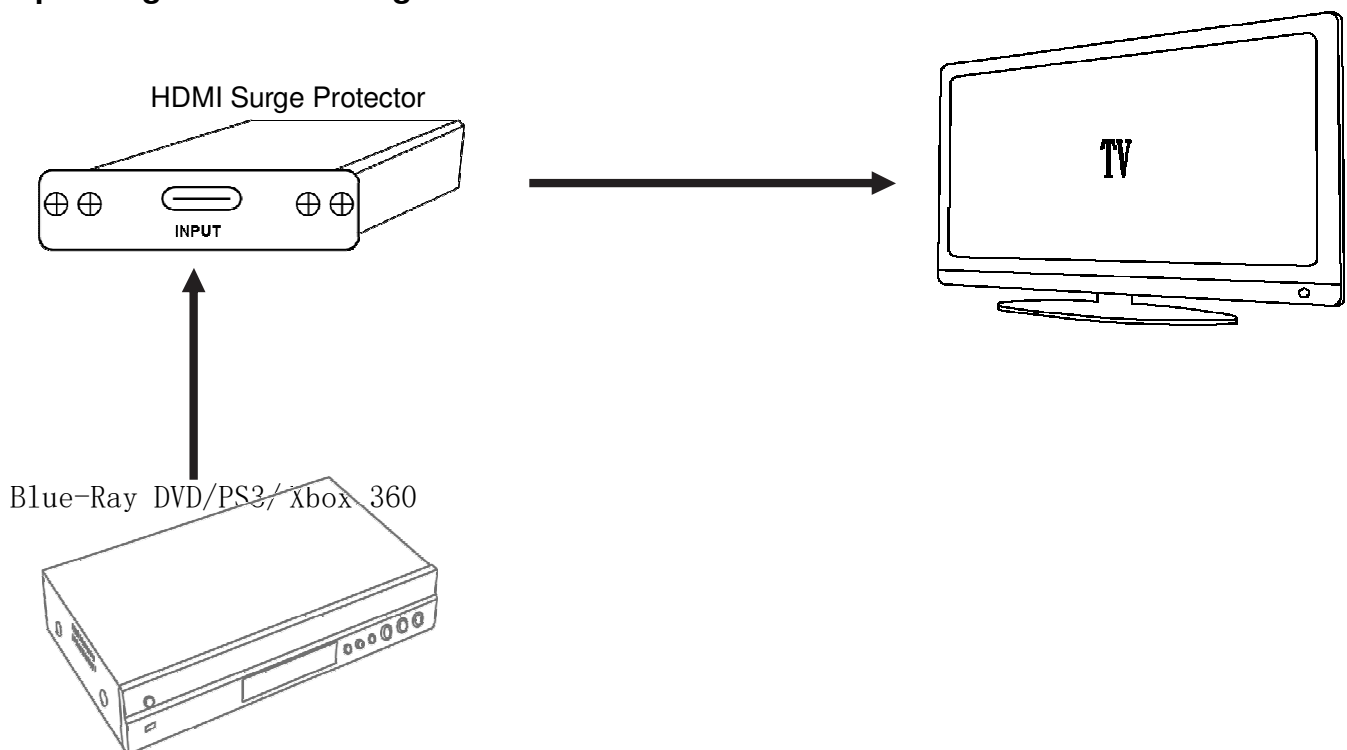


Figure 1.1 rear panel showing picture

INPUT: HDMI input interface

**Operating and Connecting:**



1. To connect the HD Source with the HDMI input port of the HDMI surge protector
2. To connect the HD Display with the HDMI output port of the HDMI surge protector.

**Features:**

|                                  |   |
|----------------------------------|---|
| HDMI version.....                | HDMI 1.4 with 3D,4Kx2K,HEAC                           |
| HDMI resolution .....            | 24/50/60fs/1080p/1080i/720p/576p/576i/480p/480i       |
| Support video color format ..... | 24bit/deep color 30bit,36bit, 48bit                   |
| Support audio format.....        | DTS-HD/Dolby-trueHD/LPCM7.1/DTS/Dolby-AC3/DSD HD(HBR) |
| Max bandwidth.....               | 340MHz  |
| Max baud rate.....               | 10.2Gbps  |
| Input/Output TMDS signal .....   | 0.5~1.5Volts p-p(TTL)                                 |
| Input/Output DDC signal .....    | 5Volts p-p (TTL)                                      |
| Max working current.....         | 50mA  |
| Operating Temperature range..... | (-15 to +55°C)  |
| Operating Humidity range.....    | 5 to 90%RH (No Condensation)                          |
| Dimension (L x W x H) .....      | 43.5x64x16.5 (mm)                                     |
| Weight.....                      | 40g   |

**Notes:**

Please use the device as the instruction listed to keep the long time use.

1. The device should be placed at the spot far from damp, high-temperature, dusty, erosive, and oxidative environment.
2. Do not shake or drop device
3. Please do not open the cover and touch the inside parts.

Before power on, please check the connection line carefully, making sure that all interfaces are normally connected. Below are common trouble shooting methods:

| Serial NO | Trouble Description | Cause and Ways to deal with  |
|-----------|---------------------|--|
| 1         | No Picture          | <ol style="list-style-type: none"><li>1. Make sure that the TV is on and has been connected with the machine.</li><li>2. Check if the signal source is on and well connected.</li><li>3. Check the system connection quality.</li><li>4. Check if the line is all good quality.</li><li>5. Check the cable quality</li></ol> |
| 2         | Obscure Picture     | <ol style="list-style-type: none"><li>1. Try again to connect the cable to be free from the unsuccessful connection.</li><li>2. Check HDMI Cable Quality</li></ol>   |