

DIREKTRONIK

BG-DA-1X2AS

Direktronik Art 20124357

**1X2 4K 18Gbps UHD HDMI Splitter with Downscaling and Audio
Extraction**

User Manual







TABLE OF CONTENTS

Statement	4
Safety Precaution	4
Introduction	5
Features	5
Packing List	5
Specifications	6
Operation Controls and Functions	7
Application Example	8
Tech Support	9
Limited Product Warranty Terms	9
Mission Statement	10
Copyright	10



Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- Do not dismantle the housing or modify the module.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not put any heavy items on the extension cable in case of extrusion.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Unplug this device during lightning storms.
- Do not use liquid or aerosol cleaners to clean this unit. Clean only with a soft dry microfiber cloth.
- Always unplug the power to the device before cleaning.
- If an object or liquid falls or spills on to the housing, unplug the module immediately.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- Product specifications may be subject to technical upgrades without further notice.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.



Introduction

The BG-DA-1X2AS is a 1x2 HDMI 2.0 splitter which simultaneously routes one HDMI source to two HDMI displays. It supports resolutions up to 4K2K@60Hz (4:4:4) and HDCP 2.2. This product supports audio extraction from an HDMI source to optical/analog outputs. Output supports bypass and downscaler (4K->1080P) function.

Features

- HDMI 2.0b, HDCP2.2/HDCP1.4 compliant.
- HDMI resolution; maximum up to 4K2K@50/60Hz (4:4:4)
- Digital and analog audio extract output from HDMI source.
- Output bypass and 4K->1080P downscaler function via dial switch on panel.
- EDID can be selected COPY and AUTO modes via dial switch on panel.
(COPY: It copies OUT 1 port EDID settings to all output ports;
AUTO: Compares OUT 1 and OUT 2 EDID settings and outputs the best resolution to all outputs.
- HDMI audio formats LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD

Packing List

- | | |
|----------------------------|------------------------|
| • 1x 1X2 HDMI 2.0 Splitter | • 1x User Manual |
| • 1x 5V/1A Power Adapter | • 1x Quick Start Guide |



Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolutions	720P@50/60Hz, 1080P@50/60Hz, 4K2K@24Hz, 4K2K@30Hz, 4K2K@50/60Hz (4:4:4)
Color Depth	4K@60Hz 8-bit, 1080P 12-bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
L/R Audio Formats	PCM 2.0
Optical Audio Formats	LPCM [2.0/2.1]CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
ESD Protection	Human-body Model: $\pm 8\text{kV}$ (Air-gap discharge), $\pm 4\text{kV}$ (Contact discharge)
Connections	
Input ports	1x HDMI Type A [19-pin female]
Output ports	2x HDMI Type A [19-pin female] 1x L/R Audio out [3.5mm Stereo Mini-jack] 1x Optical out [S/PDIF]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	4.7"(W) x 2.5"(D) x 0.6"(H) [120mm(W) x 62.5mm(D) x 14mm(H)]
Weight	0.37lbs [166g]
Power Supply	Input: AC100~240V 50/60Hz, Output: DC5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	2.8W (max)
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Relative Humidity	20~90% RH (non-condensing)



Operation Controls and Functions

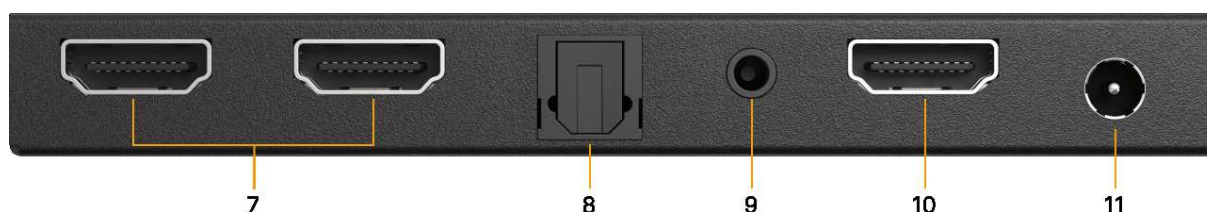
Front Panel



1. **POWER LED:** This blue LED will illuminate when the unit has a connected power supply.
2. **HDMI INPUT LED:** This blue LED will illuminate when the HDMI IN has connected to an active HDMI source device with an HDMI cable.
3. **HDMI OUTPUT LED:** These blue LEDs will illuminate when the HDMI OUT port has been connected to an active display device with an HDMI cable.
4. **SERVICE port:** Micro USB firmware update.
5. **EDID:**
 - **AUTO:** Compares OUT 1 and OUT 2 displays EDID settings.
 - **COPY:** Copy the HDMI OUT 1 port EDID settings to the source device.
6. **Scaler Switches (4K→ 1080P):**
 - **OFF:** signal input and output is in bypass status.
 - **ON:** signal input will downscale 4k to 1080P on toggled output.

NOTE: When changing EDID or Scaler Switches the unit should be disconnected from power.

Rear Panel

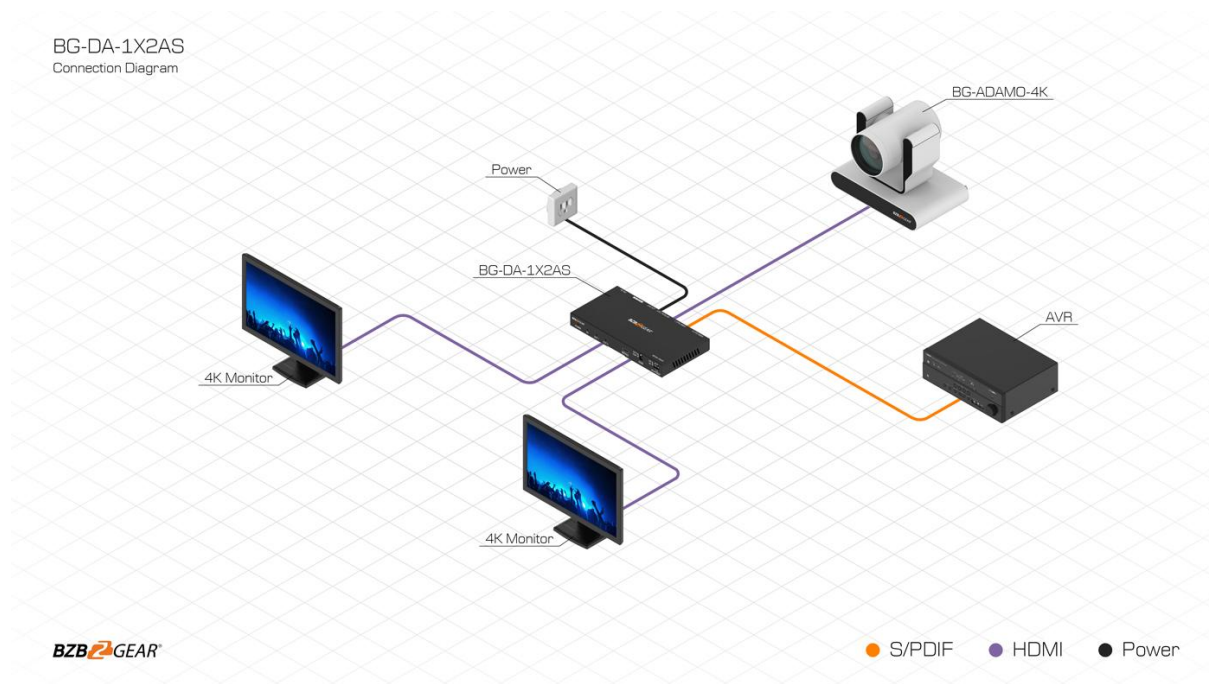


7. **HDMI OUTPUT:** Connect to an HDMI display device such as TV or monitor.
8. **OPTICAL OUT:** SPDIF optical audio output.
9. **L/R OUT:** 3.5mm stereo mini audio output.
10. **HDMI IN:** Connect to an HDMI source device.
11. **DC 5V:** Plug the 5V/1A DC power supply into the unit and connect the adapter to an AC outlet.



Application Example

The following diagram illustrates the typical input and output connection of the splitter:





Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGear's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

Phone

1.888.499.9906

Email

support@bzbgear.com

Live Chat

bzbgear.com



SE



NO

Direktronik AB | Box 234, 149 23 Nynäshamn | Besöksadress Konsul Johnsons väg 15 149 45 Nynäshamn
Telefon 08 52 400 700 | Fax | Epost info@direktronik.se | Org.nr 556281-9663 | Bankgiro 922-0179

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.



SE



NO

Direktronik AB | Box 234, 149 23 Nynäshamn | Besöksadress Konsul Johnsons väg 15 149 45 Nynäshamn
Telefon 08 52 400 700 | Fax | Epost info@direktronik.se | Org.nr 556281-9663 | Bankgiro 922-0179



Mission Statement

BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.

Copyright

All the contents in this manual and its copyright are owned by BZBGear. No one is allowed to imitate, copy, or translate this manual without BZBGear's permission. This manual contains no guarantee, standpoint expression or other implies in any form. Product specification and information in this manual is for reference only and subject to change without notice.

All rights reserved. No reproducing is allowed without acknowledgement.