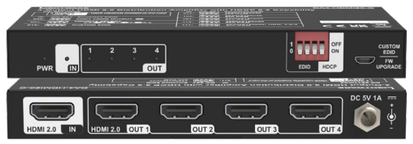


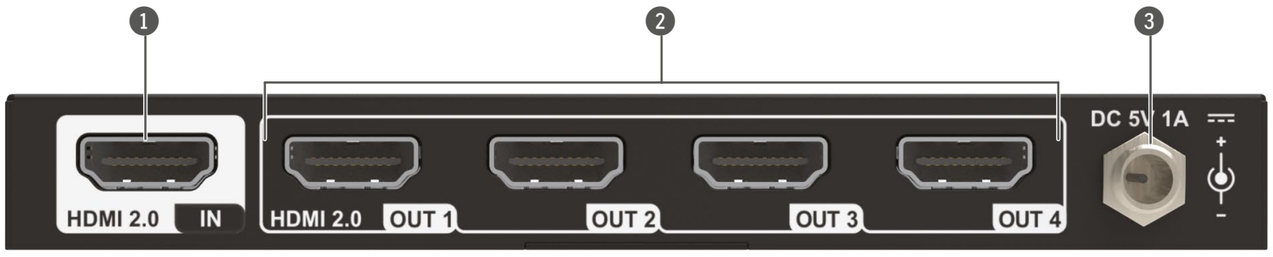
Quick Start Guide

DA4-HDMI20-C

Front view

1	**Power LED**	The LED is lit in red when power is applied.
2	**Input LED**	The LED is lit in green when HDMI signal is present on the input.
3	**Output LEDs**	The LEDs is lit in green when HDMI signal is present on the respective output.
4	**DIP switch**	4-pin DIP switch for EDID setting and HDCP mode selection.
5	**Micro-USB port**	Firmware update can be performed through this port.

Rear view



1	**HDMI Input port**	Type-A female HDMI input port to connect an HDMI source.
2	**HDMI Output ports**	Four type-A female HDMI output ports to connect HDMI displays.
3	**DC 5V barrel port**	DC barrel port to connect an AC power adapter.

DIP Switch Operation

EDID Management

The DIP switch represents “1” when in the upper position, and “0” when in the lower position.

Switch 1-3 are used for setting the EDID. The DIP switch statuses and their corresponding settings are shown on the top of the product.

ID	DIP SET	Emulated EDID
000-	1 2 3 4	Copy from Output 1
001-	1 2 3 4	Priority select 1 → 2 → 3 → 4
010-	1 2 3 4	Custom EDID
011-	1 2 3 4	1920x1080p60 2ch PCM
100-	1 2 3 4	3840x2160p30 2ch PCM
101-	1 2 3 4	3840x2160p60 2ch PCM
110-	1 2 3 4	4096x2160p60 2ch PCM
111-	1 2 3 4	3840x2160p60, HDR, 4:2:0 2ch PCM

If the DIP switch is set to 010- (Custom EDID), but there is no custom EDID present in the device, the EDID of the 101- position will be emulated automatically.

HDCP management

When the fourth switch is in the upper position, HDCP capability on the input is disabled. When it is in the lower position, HDCP capability is enabled.

ON	1 2 3 4	**HDCP capability is enabled.**
OFF	1 2 3 4	**HDCP capability is disabled.**

Important Safety Instructions

Please read and keep the information in the attached safety instructions supplied with the product before starting to use the device.

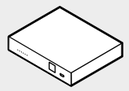
Introduction

Thank you for choosing Lightware’s DA4-HDMI20-C 1x4 distribution amplifier, which can distribute and amplify one HDMI input signal to four HDMI outputs. This device supports HDMI video resolution up to 4K@60Hz 4:4:4, including multichannel audio formats. Besides passing EDID information from the display, there are multiple built-in EDID settings that can be selected with the 4-pin DIP switch on the front panel. The device also supports firmware update though a micro-USB port.

Features

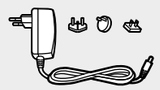
- Resolutions of up to 4K@60Hz with 4:4:4 colorspace
- HDMI 2.0 and 1.x compliant
- HDCP 2.3 support
- Supports video resolution downscaling (e.g. 4K to 1080p) based on EDID
- 18 Gbps bandwidth
- Advanced EDID management: multiple built-in EDIDs can be selected
- Built-in equalizer for signal enhancement to avoid signal attenuation in transmission
- No signal latency, zero frame delay
- Supports CEC passthrough
- LEDs indicate current operating status
- Firmware update via Micro-USB port

Box Contents

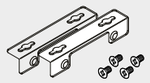


Distributor-amplifier

Safety and Warranty Info, Quick Start Guide



5V DC Power Adaptor, interchageable plugs



Mounting ear pack

Firmware Update

Please follow the steps below to update the firmware of the device via the Micro-USB port:

1. Connect the device to the PC with a USB cable.
2. Power on the device. The PC will automatically detect a U-disk called “BOOTDISK”.
3. Double-click on the U-disk to open it, and take note of a file named “READY.txt”.
4. Copy the latest update file (.bin) directly to the “BOOTDISK” U-disk.
5. The “READY.txt” shall turn into “SUCCESS.txt” upon successful firmware update. If the update failed, please check the (.bin) file and then try the process desribed above again.
6. Remove the USB cable after firmware update is complete.

Uploading a custom EDID

To upload a custom EDID to the device, please follow these steps:

1. Connect the device to a host computer using the micro-USB port.
2. Power on the device (or restart it if it was powered on when plugging the cable in).
3. The computer will now treat the device as a USB drive.
4. Make sure that the custom EDID file is in binary format, contains either 128 or 256 bytes (with CEA extension), and that its extension is *.edid*.
5. Copy the chosen EDID file to the device. If the upload is successful, a file called “E_SUCC.txt” shall appear on the device.
6. Unplug the micro-USB cable and restart the device. The custom EDID shall be available for choosing.

If the upload is successful, the custom EDID can be emulated by setting the DIP switch to the 010- position.

The custom EDID remains in the device memory even if it is turned off.

TAKE CARE OF ME

I AM THE ONE AND ONLY USER DOCUMENT FOR THIS PRODUCT

Lightware Visual Engineering PLC.

Budapest, Hungary

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support@lightware.com +36 1 255 3810

Further information on the device is available at www.lightware.com.

Doc. ver.: 1.2

19210087

Specifications

General

Compliance	CE, UKCA
EMC (Emission)	EN 55032:2015+A1:2020
EMC (Immunity)	EN 55035:2017+A11:2020
Safety	EN 62368-1:2020
Warranty	3 years
Power supply (Input)	100V~240V AC
Power supply (Output)	5V DC 1A
Power consumption (max)	2.5W
Operating temperature	-10°C~+55°C
Storage temperature	-25°C~+70°C
Operating humidity	10%-90%

Enclosure

Enclosure material	1mm steel
Dimensions (mm)	142(W)x17.6(H)x70.4(D)
Weight	260g

Control

Front panel control	Yes, EDID switch
LED indicators	Live, Video Input Status, Video Output Status
EDID emulation	Advanced EDID management
EDID memory	5 factory presets, 1 programmable
EDID support	EDID v1.3
Control	Micro USB-B type connector

HDMI Ports

Connector	Type-A female HDMI
Standard	HDMI 1.4, HDMI 2.0
Maximum resolution	4096x2160@60Hz, 8 bit color
HDCP compliancy	HDCP 2.3 compliant
3D support	Yes
Reclocking	Yes
Input cable equalization	+12dB fixed
Digital audio formats	All HDMI2.0 formats
	multi-channel PCM, Dolby True-HD, DTS-HD master audio
CEC	Supported

Mechanical drawing