

QUICK START GUIDE

OPT-POWERTRAY-SC
OPT-POWERTRAY-NTD
OPT-POWERTRAY-NTQ



ANALOG WAY[®]
Pioneer in Analog, Leader in Digital

IMPORTANT SAFETY INSTRUCTIONS

Please read the supplied safety instruction document before using the product and keep it available for future reference.

- The device is Class 1 laser product if the EXT-HDMI20-OPT-TX/RX series extenders are installed.

**CLASS 1 LASER PRODUCT
IF OPTICAL EXTENDERS
ARE INSTALLED**

Introduction

Thank you for choosing **OPT-POWERTRAY** series. The **OPT-POWERTRAY** is a 1RU-size housing accessory which can enclose up to 16 EXT-HDMI20-OPT-TX/RX units, also providing power source for every installed device. The optical fibers are connected to the eight SC duplex or four Neutrik opticalCON QUAD or four Neutrik opticalCON DUO connectors, each carrying four signal fibers from four of the extenders. The HDMI tail cables of the extenders are accessible directly at the back of the Power tray.

Model Comparison

Model	Optical connector	Number of installable OPT extenders
OPT-POWERTRAY-SC	SC duplex (8x)	up to 16
OPT-POWERTRAY-NTD	Neutrik NO4FDW-A (4x)	up to 8
OPT-POWERTRAY-NTQ	Neutrik NO2-4FDW-A (4x)	up to 16

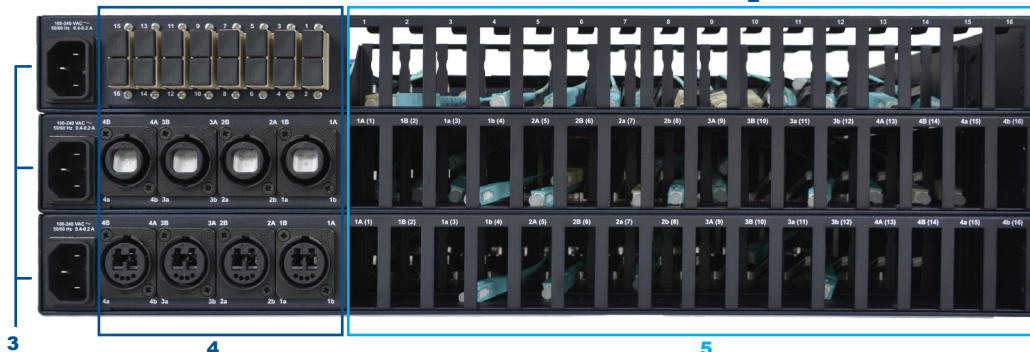
WHAT'S IN THE BOX



FRONT VIEW



REAR VIEW x3 models



- 1** **Status LED indicators of the OPTJ extenders**
The status LED indicators give immediate feedback about the recent status of the HDMI20-OPT-TX/RX extenders.
- 2** **Power LED**
Power LED lights green when the unit is powered on.
- 3** **AC connector**
Standard IEC power connector. Accepts 100 to 240 Volts, 50 or 60 Hz power sources.
- 4** **Fiber optical connectors (variable by models)**
SC model: 8x SC duplex fiber optical connectors for 16x multimode SC fiber optical cables.
NTD model: 4x Neutrik NO2-4FDW-A connectors for 4x Neutrik opticalCON DUO series cables or 8x LC fiber optical cables.
NTQ model: 4x Neutrik NO4FDW-A connectors for 4x Neutrik opticalCON QUAD series cables.
- 5** **Mounting slots for the OPT extenders**
16x mounting slots for the EXT-HDMI20-OPT-TX/RX extenders.

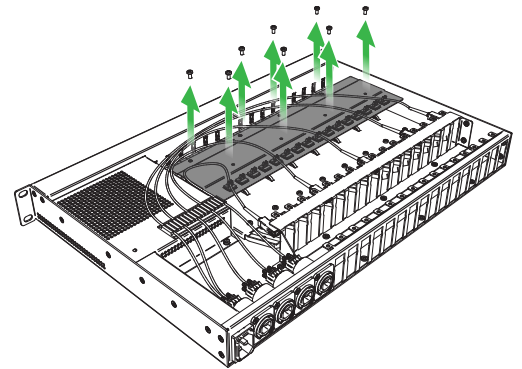
ASSEMBLY STEPS OF OPT-POWERTRAY EXTENDERS

The following assembly guide is for help the correct installation of the **OPT-POWERTRAY** extenders to the Power Tray step by step.

STEP 1

Removing of the small cover.

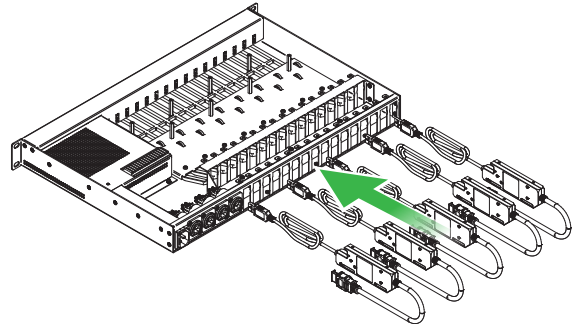
Remove the optical cables from the cable clamps located on the small cover. Remove the 8 pcs screws by a PH1 screwdriver from the locations highlighted with green arrows and remove the small cover plate (grey colored).



STEP 2

Installation of the OPT extenders.

Insert each EXT-HDMI20-OPT-TX/RX extender to the mounting slot. Pull the HDMI tail cable across the rear side mounting holes of the Power tray. Fasten the extenders by the provided M3x6 screws and the toothed foot washers (2 pcs screws and 2 pcs washers per extenders on the top).

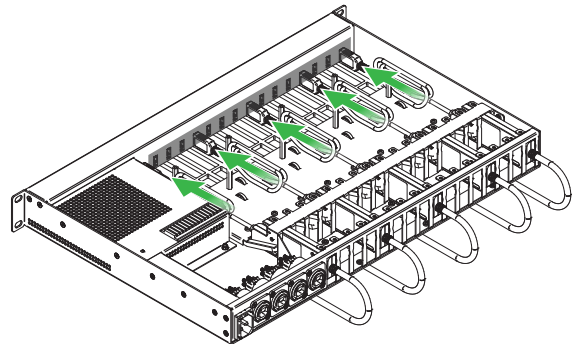


STEP 3

USB cable connection.

Connect the USB-A cables of the extenders to the USB-A connectors of the Power tray (grey colored). Fasten the USB cables with the provided cable ties.

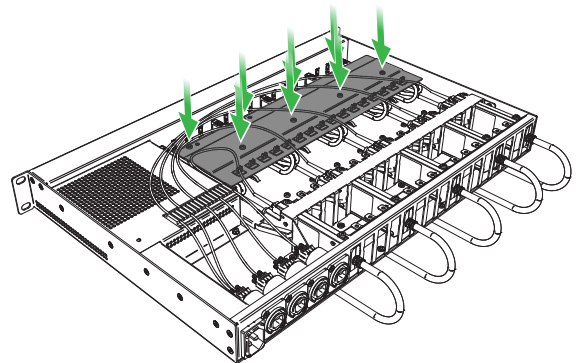
- The USB-A connectors of the Power tray are for powering purpose only. No data transmission is processed on them.



STEP 4

Re-inserting of the small plate.

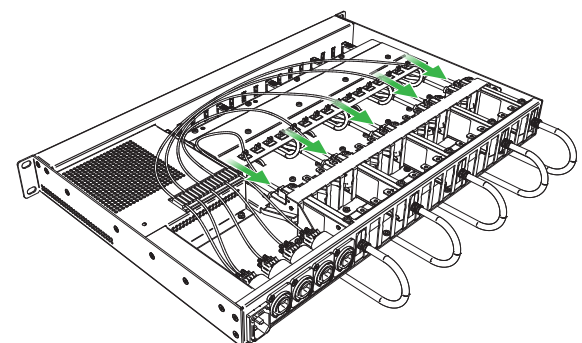
Insert the small cover plate (grey colored) back and fasten the 8 pcs screws by a PH1 screwdriver.



STEP 5

SC fiber cable connections.

Remove the protective caps and connect the SC fiber optical cables to the extenders and insert the optical cables to the cable clamps.



MOUNTING WITH RACK EARS

The rack ears allow mounting the device as a standard rack unit installation.

- Always use all the four screws for fixing the device ears to the rack rail. Choose properly sized screws for mounting. Keep minimum two threads left after the nut screw.
- The device is rack-size width and 1U high.



Ventilation

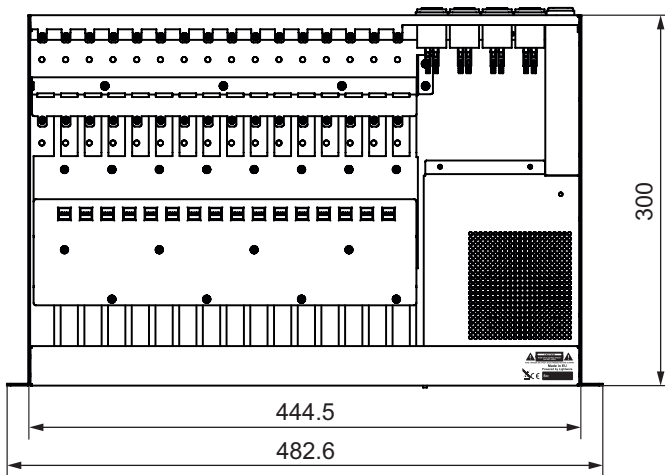
- To ensure the correct ventilation and avoid overheating let enough free space around the appliance. Do not cover the appliance, let the ventilation holes free on the front and the right side.

MECHANICAL DRAWINGS

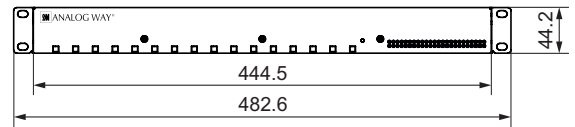
The OPT-POWERTRAY model can be seen in the figures but the layout of all three models is the same.

The dimensions are in mm.

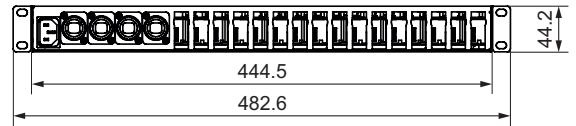
Top View (1:6)



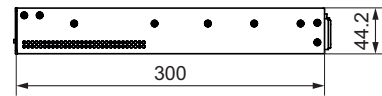
Front View (1:6)



Rear View (1:6)



Side View (1:6)



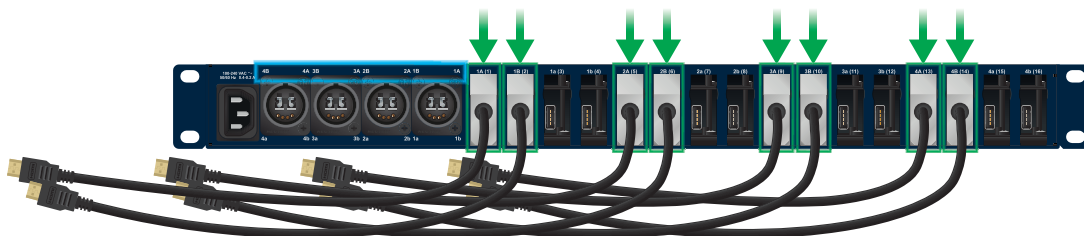
INSTALLATION OF THE EXT-HDMI20-OPT-TX/RX FOR THE OPT-POWERTRAY-NTD

The OPT-POWERTRAY-NTD model is built with 4x Neutrik opticalCON DUO connectors which can extend up to 8x optical signals.

- The OPT-POWERTRAY-NTD model is able to handle up to 8 pcs EXT-HDMI20-OPT-TX/RX.

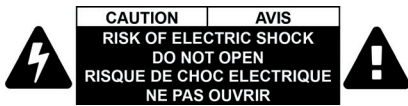
The mounting slots (highlighted with green) and the Neutrik opticalCON DUO connectors (highlighted with blue) are labeled with the same ID for the better identification. Thus, the installation of the extenders are recommended to the following slots in the NTD model:

	Mounting slots															
	1A (1)	1B (2)	1a (3)	1b (4)	2A (5)	2B (6)	2a (7)	2b (8)	3A (9)	3B (10)	3a (11)	3b (12)	4A (13)	4B (14)	4a (15)	4b (16)
Extender installation	✓	✓	✗	✗	✓	✓	✗	✗	✓	✓	✗	✗	✓	✓	✗	✗



IMPORTANT SAFETY INSTRUCTIONS

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



WARNING

To prevent injury, the apparatus is recommended to securely attach to the floor/wall or mount in accordance with the installation instructions. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. No naked flame sources, such as lighted candles, should be placed on the apparatus.

Correct Disposal of This Product

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from, uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased, this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Class I Apparatus Construction

This equipment must be used with a mains power system with a protective earth connection. The third (earth) pin is a safety feature, do not bypass or disable it. The equipment should be operated only from the power source indicated on the product.

To disconnect the equipment safely from power, remove the power cord from the rear of the equipment, or from the power source. The mains plug is used as the disconnect device, the disconnect device shall remain readily operable. There are no user-serviceable parts inside of the unit. Removal of the cover will expose dangerous voltages. To avoid personal injury, do not remove the cover. Do not operate the unit without the cover installed.

The appliance must be safely connected to multimedia systems. Follow instructions described in this manual.

Ventilation

For the correct ventilation and avoid overheating ensure enough free space around the appliance. Do not cover the appliance, let the ventilation holes free and never block or bypass the ventilators (if any).

Safety Symbols Legend	
Symbol	Description
	Alternating current
	Protective conductor terminal
	Caution, possibility of electric shock
	Caution
	Laser radiation

WEEE (Waste Electrical & Electronic Equipment)



Specifications

General

Compliance-----	CE
EMC compliance (emission)-----	EN 55032:2015
EMC compliance (immunity)-----	EN 55035:2017
Safety-----	EN 62368-1:2014
RoHS-----	EN 50581:2012
Laser safety-----	EN 60825-1:2008
Laser class specification-----	Class 1 if HDMI20-OPTJ-90 extenders are installed
Warranty-----	3 years
Operating temperature-----	0 to +50°C (+32 to +122°F)
Operating humidity-----	-10% to 90%, non-condensing
Cooling-----	Passive
Protection against-----	Short circuit / Overload

Enclosure

Rack mountable-----	Yes
Material-----	1 mm steel
Dimensions (mm / inch)-----	482.6W x 300D x 44.2H / 19W x 11.8D x 1.7
Net Weight-----	4.13 kg / 9.1 lbs

Power

Power supply-----	Internal
Power source-----	100-240 V AC 50/60 Hz
Power consumption (loaded with 16 extenders)-----	23.7 W

Optical connectors - OPT Power Tray SC

Connector type-----	SC duplex receptacle
Number of connectors-----	8

Optical connectors - OPT Power Tray NTD

Connector type-----	Neutrik NO2-4FWD-A receptacle
Number of connectors-----	4

Optical connectors - OPT Power Tray NTQ

Connector type-----	Neutrik NO4FWD-A receptacle
Number of connectors-----	4

USB connectors

Connector type-----	USB Type A receptacle
Number of connectors-----	16
DC output voltage-----	5V