



Quick Start Guide

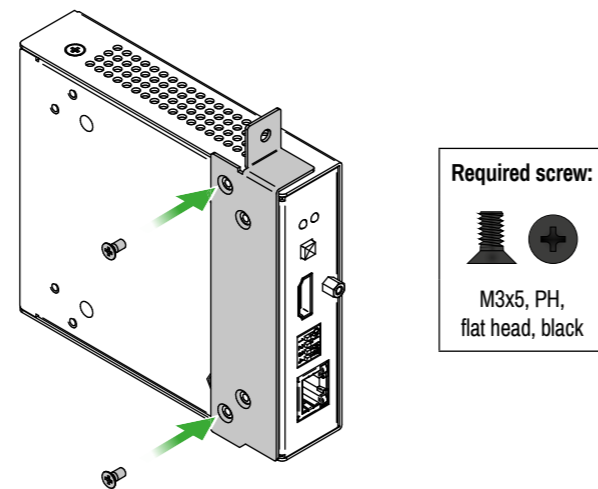
PRC-16-205
(Powered Rackmount Cage for 16 Extenders)

Assembly Steps for the Mounting of the Extenders

The following assembly guide helps to install correctly the signal extenders to the Powered Rackmount Cage step by step.

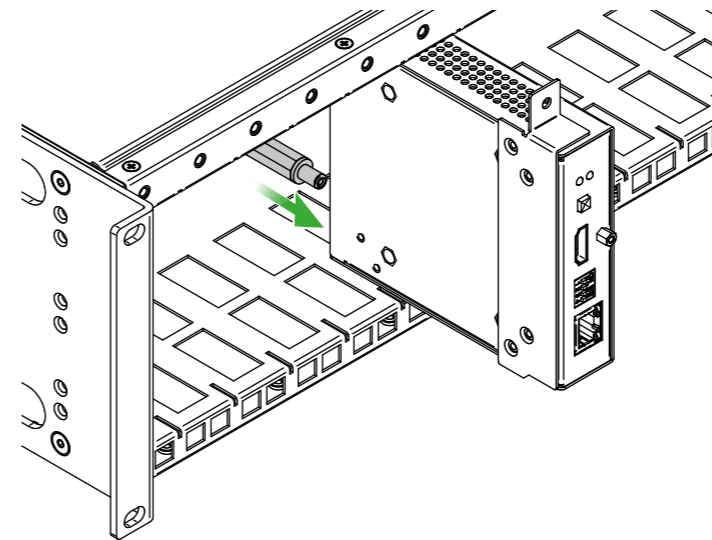
Step 1 - Assembly of the extender bracket.

Fasten the mounting bracket (highlighted with grey) onto the bottom of the extender with the provided M3x5mm PH flat head black screws (2 pcs per bracket) with a PH1 screwdriver.



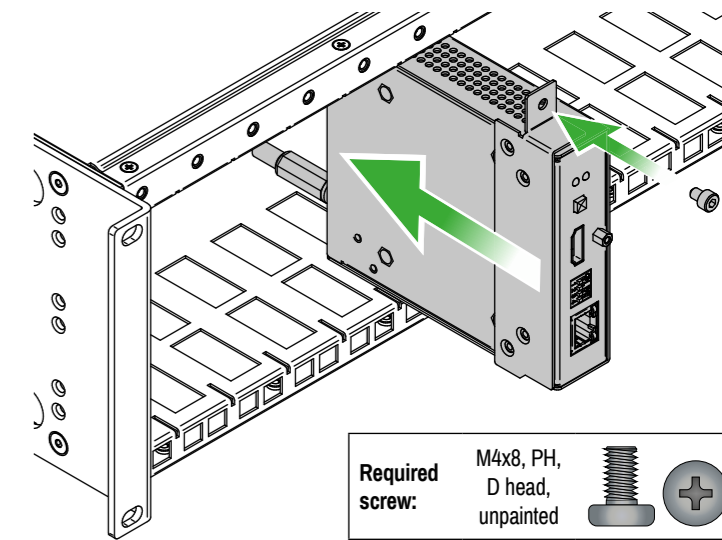
Step 2 - 5V DC power cable connection.

Pull out the 5V DC power cable (highlighted with grey) belongs to the desired slot from the enclosure and connect it to the power connector of the extender.



Step 3 - Fastening the extender in the mounting slot.

Place the extender (highlighted with grey) to the desired mounting slot and fasten the extender bracket with 1 pc M4x8mm PH D head unpainted screw with a PH1 screwdriver. Pay attention to the guide rails of the cage when placing the extender.



Important Safety Instructions

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

Introduction

The PRC-16-205 (Powered Rackmount Cage for 16 extenders 200W 5V) is a rack mount cage accessory enclosing up to 16x optical or AV over IP (e.g. VINX-110-HDMI-DEC or VINX-120-HDMI-ENC units) extenders, or distribution amplifiers in any combination, also providing power source for every installed device. Reliable, safe, and secure operation is assured by numerous built-in protections against short circuits and overloads.

Compatible Devices

The following table contains the compatible Lightware products which can be mounted to the Powered Rackmount Cage. The type of extenders can be mixed within one cage.

Product category	Extender model
AV over IP extenders	VINX-110-HDMI-DEC; VINX-120-HDMI-ENC
Optical extenders	HDMI-OPT-TX100; HDMI-OPT-TX100R; HDMI-OPT-TX200R
	HDMI-OPT-RX100; HDMI-OPT-RX100R; HDMI-OPT-RX200R
	HDMI-3D-OPT-RX150RA

Assembly of the Rack Ears and the Cable Guides

The following typical application drawings demonstrate examples for three different installations of the rack ears and the cable guides in the Powered Rackmount Cage.

Figure 1 - Front Installation (Default State)

It is recommended if you have a shallow rack and all cabling is done on the rear side.

The rack ears (highlighted with blue) are fixed to the front side and they are positioned in line with the extenders. One cable guide (highlighted with green) is fixed to the rear side in lower position.

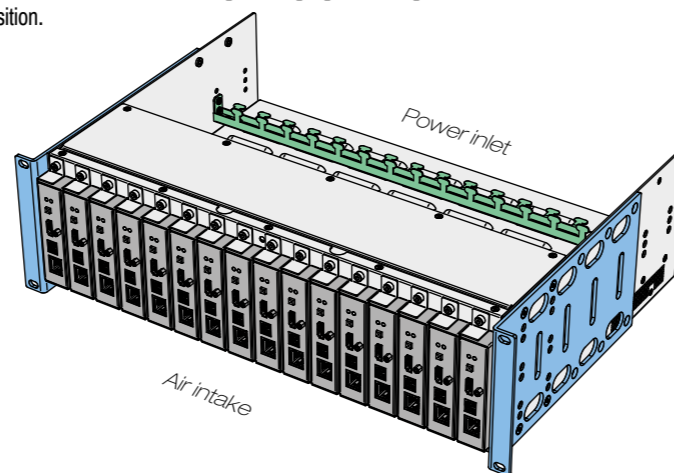


Figure 2 - Front and Rear Installation

It is recommended if you have a deep rack and you need cabling on the front and the rear side as well.

The rack ears (highlighted with blue) are fixed to the front side in foremost position.

Two cable guides (highlighted with green) are fixed to the device, one is to the front side in the middle position, the second one is to the rear side in lower position.

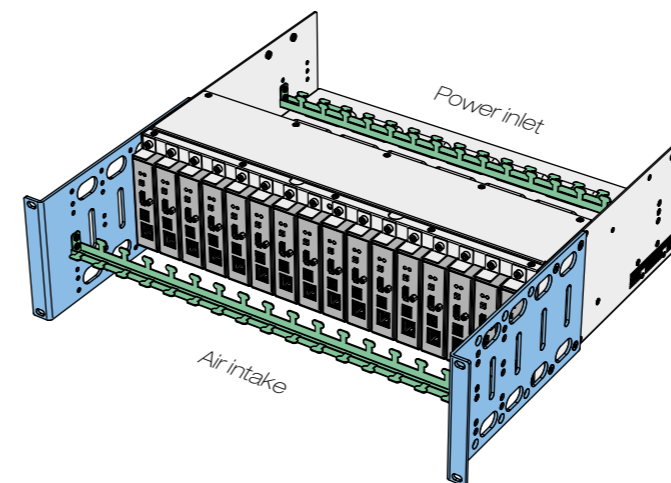
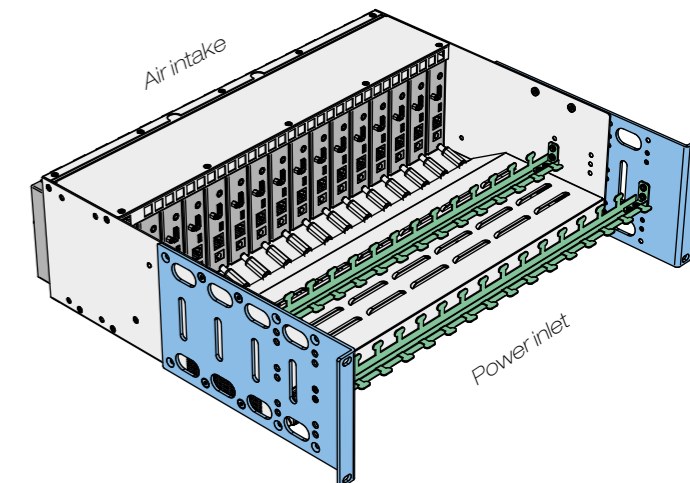


Figure 3 - Rear Installation

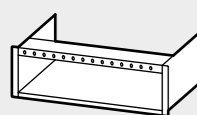
It is recommended if you have a deep rack and all cabling has to be accessed from the front.

The rack ears (highlighted with blue) are fixed to the rear side in rearmost position.

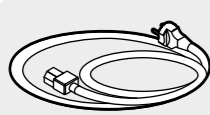
Two cable guides (highlighted with green) are fixed to the rear side of the device in the middle position.



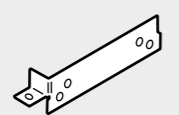
Box Contents



PRC-16-205 device built with rack ears (2x) and cable guides (2x)



IEC power cable



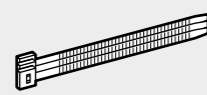
Extender bracket (16x)



M3x5mm PH screw, flat head (32x)



M4x8mm PH screw, D head (16x)



Cable tie (32x)



Safety and Warranty Info, Quick Start Guide

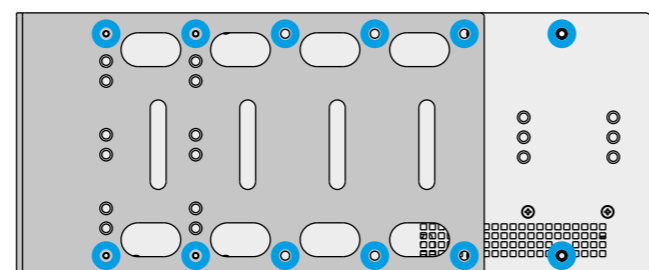
Transposition of the Rack Ears

The rack ears of the cage can be moved to variable positions. One rack ear is built with 10 pcs screw holes and the enclosure has 12 pcs screw positions per side which can provide more different positioning of the device in the rack shelf - see examples in the **Assembly of the Rack Ears and the Cable Guides** section.

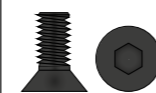
The rack ears can be fixed on the front or the rear sides depending on the current usage of the extenders.

Always fasten the rack ears with at least 4 pcs screws per ear.

The screw holes of the enclosure (light grey) where the rack ears (dark grey) can be fixed are highlighted with blue on the side view figure below.



Required screw:

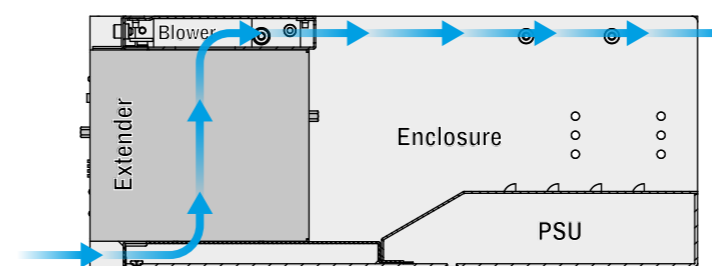


M4x8, Allen, flat head, black

Ventilation

To ensure the correct ventilation and avoid overheating provide enough free space around the ventilation holes.

The following cross-sectional view of the device shows the direction of the airflow (blue arrows).



Cross-sectional view

Further Information

The Product Brief of this appliance is available on www.lightware.com. See the **Downloads** section on the dedicated product page.

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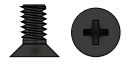
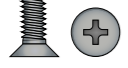
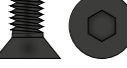
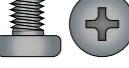
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Doc. ver.: 1.0
19200095

Screw Types of the Powered Rackmount Cage

The device contains more different screw types. The following table makes a comparative list about the accessory and built-in screws of the cage.

	M3x5, flat head, PH, black	M3x6, flat head, PH, unpainted	M4x8, flat head, Allen, black	M4x8, D head, PH, unpainted
				
Quantity	32 pcs	8 pcs	8 pcs	16 pcs
Original location	Supplied as accessory	Assembled in the device	Assembled in the device	Supplied as accessory
Required tool	PH1 screwdriver	PH1 screwdriver	Allen key, 2.5 mm (7/64")	PH1 screwdriver
Used for	Fastening of the extender bracket to the extender	Fastening of the cable guide to the enclosure or the rack ear	Fastening of the rack ear to the enclosure	Fastening of the extender with the bracket in the mounting slot

Always use the black M3x5 screws for fastening the bracket to the extender. Longer screws may damage the interior parts of the device.

Specifications

General

Compliance.....	CE
EMC compliance (emission / immunity).....	EN 55032:2015 / EN 55035:2017
Safety.....	EN 62368-1:2014
RoHS.....	EN 50581:2012
Warranty.....	3 years
Operating temperature.....	0 to +50°C (+32 to +122°F)
Operating humidity.....	10% to 90%, non-condensing
Cooling.....	Blowers (8x)
Protection against.....	Short circuit / Overload

Enclosure

Rack mountable.....	Yes
Material.....	1.5 mm steel
Mounting slots.....	16
Dimensions without rack ears (mm).....	442W x 301.5D x 131.5H
Dimensions with rack ears (mm).....	482.6W x 319D x 132.5H
Dimensions without rack ears (inch).....	17.4W x 11.8D x 5.1H
Dimensions with rack ears (inch).....	19W x 12.5D x 5.2H

Dimensions with maximum depth (mm).....	482.6W x 454D x 132.5H
Dimensions with maximum depth (inch).....	19W x 17.9D x 5.2H
Dimensions of the rack ear (mm).....	20.3W x 235D x 132.5H
Dimensions of the rack ear (inch).....	0.8W x 9.2D x 5.2H
Net Weight.....	7.8 kg / 17.2 lbs
Weight with loaded 16 VINX extenders.....	13.8 kg / 30.4 lbs

Power

Power supply.....	Internal
Power source.....	100-240 V AC 50/60 Hz
Nominal power consumption.....	200 W
Power consumption (loaded with 16 VINX encoders - 4K30 signal).....	185.5 W

5V DC Power Plugs

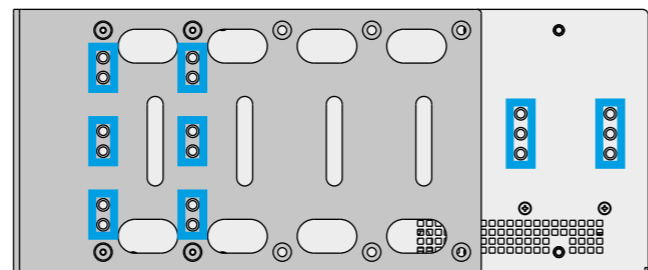
Plug type.....	5V DC receptacle
Number of plugs.....	16
DC output voltage.....	5 V
Rated current per output port.....	2.5 A
Total DC output.....	40 A

Transposition of the Cable Guides

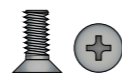
The cage assembled with 2 pcs cable guides which can be moved to variable locations in the enclosure for the most comfortable usage. The cable guides can be fixed to the enclosure and the rack ears either in 10 different positions.

Always fasten the cable guide with at least 4 pcs screws per guide.

The screw holes of the enclosure (light grey) and the rack ears (dark grey) where the cable guides can be fixed are highlighted with blue on the side view figure below.



Required screw:

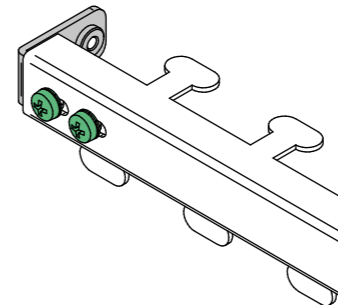


M3x6, PH, flat head, unpainted

Adjusting the Length of the Cable Guide

The distances between the sides of the enclosure and the two rack ears are different. The length of the cable guide can be adjusted using the following method:

- Loosen off (do not screw off) the two screws on the bottom of the cable guide (highlighted with green) with a PH1 screwdriver.
- Set up the length with moving the fastening part (highlighted with grey) to left or right.
- Fasten both screws.

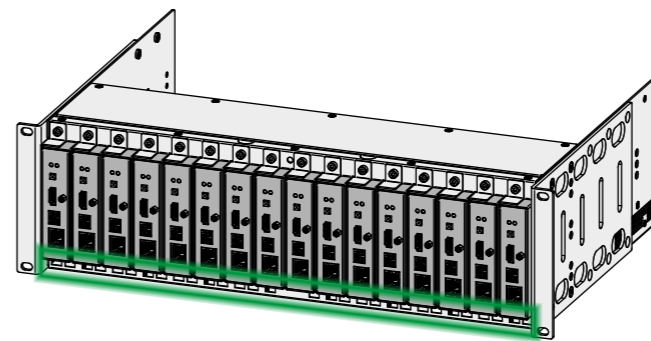


Always use the unpainted M3x6 screws for fastening the cable guides to the enclosure or the rack ears.

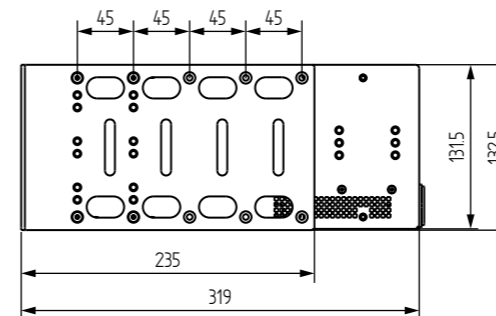
Temperature Sensor

The device contains a built-in temperature sensor (highlighted with green) which continuously controls the blowers based on the outer temperature.

To ensure the correct device temperature control, do not cover the front panel.



Side View (1:6)



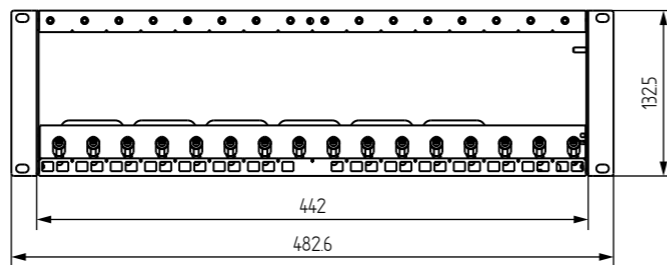
Top View with Maximum Depth (1:6)

The rack ears are fixed to the front side in foremost position. This configuration is the deepest one possible.

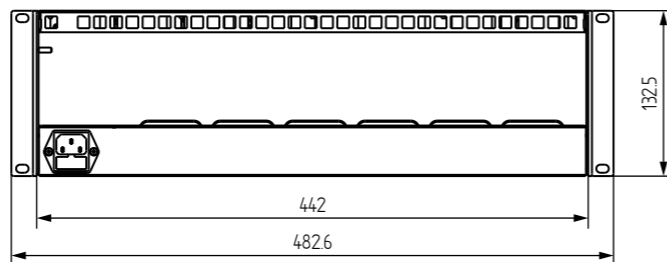
Mechanical Drawings

The dimensions are in mm.

Front View (1:6)

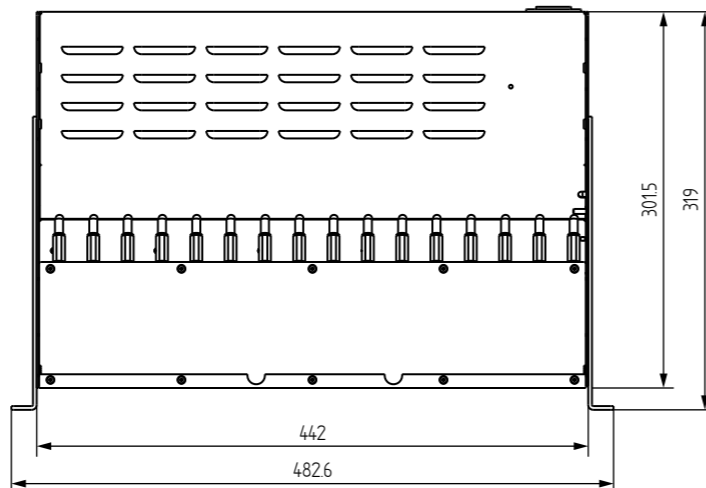


Rear View (1:6)



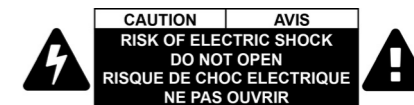
Top View with Minimum Depth (1:6)

The rack ears are fixed to the front side in rearmost position.







Important Safety Instructions

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



Safety Symbols Legend

Symbol	Description
	Alternating current
	Protective conductor terminal
	Caution, possibility of electric shock
	Caution

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.

Replacing the AC fuse

Unplug the AC power cord from the device. Locate the AC fuse on the rear panel. Replace only the AC fuse as indicated on the rear panel. Connect the power cord to the switcher and to the AC power source. Make sure the switcher is working properly.

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).

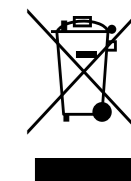
WARNING

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.

WEEE (Waste Electrical & Electronic Equipment)

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.