



User Manual
HDMI 2.0 Repeater

Model PT-R-HD20

Designed in Germany

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1. Safety and Notice

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

The PT-R-HD20 HDMI 2.0 Repeater has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the PT-R-HD20 should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



2. Introduction

The PT-R-HD20 HDMI 2.0 Repeater boosts up your HDMI extension transmission over long cable and makes multiple layers cascading of HDMI products possible. The PT-R-HD20 amplifies and equalizes the HDMI signal to provide high quality audio and video. The power can be provided by HDMI source which follows HDMI spec to provide 5V. If the source doesn't follow the spec, the external power can be added to extend HDMI2.0a signal.

3. Features

- HDMI2.0a compliant
- Supports 4K2K@60 4:4:4 8bits
- Supports HDR*, which is 4K2K@60 4:2:0 10bits**
- HDCP 2.2 compliant
- Supports CEC bypass
- Cascading HDMI2.0 cables

* HDR = High Dynamic Range.

** The video bandwidth of 4K2K@60 4:2:0 10bits (HDR) is 384 MHz, and the 4K2K@60 4:4:4 8bits is 594MHz.

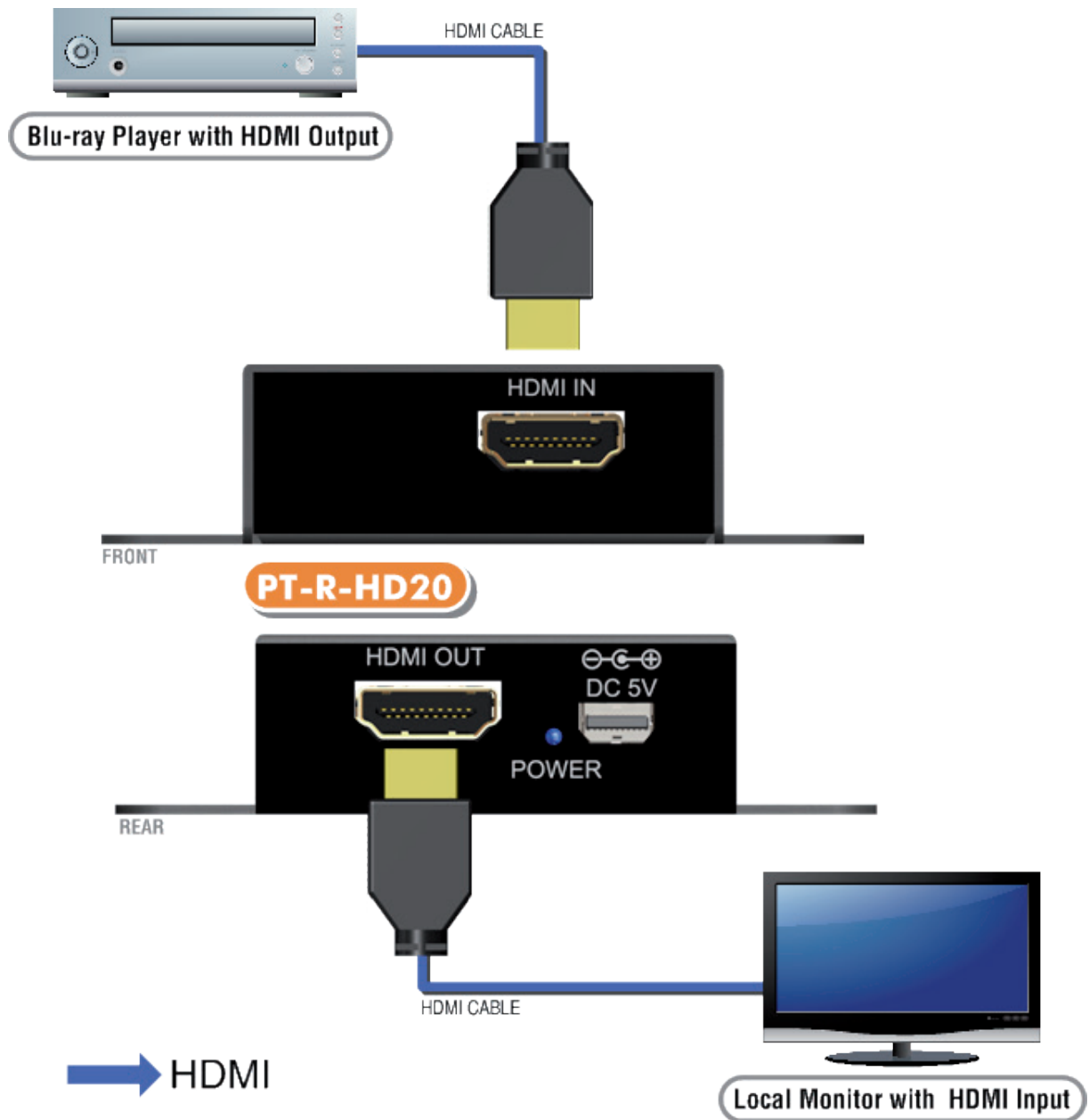
4. Package Contents

- 1x PT-R-HD20
- 1x User Manual

5. Specifications

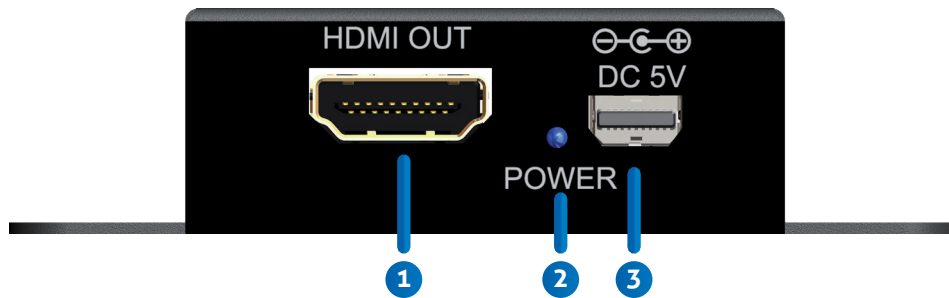
Item		Description
Role of usage		HDMI to HDMI Retimer/Repeater
HDMI compliance		HDMI 2.0a
HDCP compliance		Yes
Input Video bandwidth		Single-link 594MHz [18Gbps]
Video support		Up to HDR 4K2K@60 (4:2:0 10bits) / 4K2K@60 (4:4:4 8bits)
Audio support		Bypass
ESD protection		Human body model — ±15kV [air-gap discharge] & ±8kV [contact discharge]
PCB stack-up		4-layer board [impedance control — differential 100Ω; single 50Ω]
CEC Channel		Bypass
Input		1x HDMI
Output		1x HDMI
HDMI connector		Type A [19-pin female]
Mechanical		
Housing		Metal enclosure
Dimensions [L x D x H]	Model	49 x 56 x 17mm [1.9" x 2.2" x 0.7"]
	Package	165 x 111 x 42mm [6.4" x 4.4" x 1.7"]
	Carton	490 x 426 x 352mm [1'6" x 1'4" x 13.8"]
Weight	Model	95g [3.4oz]
	Package	158g [5.6oz]
Fixedness		Wall-mounting case with screws
Power supply		5V Mini-USB DC (optional)
Power consumption		3 Watts [max]
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH (no condensation)

6. Connection Diagram



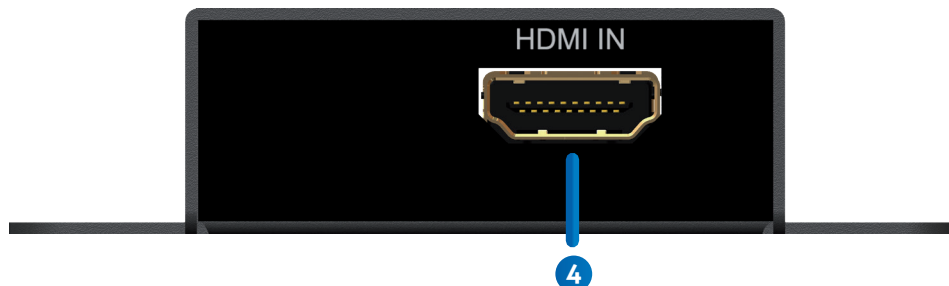
7. Panel Description

Front Panel



1. **HDMI OUT:** Connect to an HDMI display with an HDMI male-male cable here
2. **LED:** Power indicator
3. **DC 5V:** The 5V 0.85A Mini-USB power supply can be used here if the device doesn't get enough power from source

Rear Panel



4. **HDMI IN:** Connect to an HDMI source with an HDMI male-male cable here

8. Limited Warranty

The SELLER warrants the **PT-R-HD20** HDMI 2.0 Repeater to be free from defects in the material and workmanship for 1 year from the date of purchase from the SELLER or an authorized dealer. Should this product fail to be in good working order within 1 year warranty period, The SELLER, at its option, repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse or any unauthorized modifications including static discharge and power surge. This warranty is offered by the SELLER for its BUYER with direct transaction only. This warranty is void if the warranty seal on the metal housing is broken.

Unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the BUYER. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty or fitness or merchantability for any particular purpose, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty. Customers outside Taiwan are responsible for shipping charges to and from the SELLER. Cables and power adapters are limited to a 30 day warranty and must be free from any markings, scratches, and neatly coiled.

The content of this manual has been carefully checked and is believed to be accurate. However, The SELLER assumes no responsibility for any inaccuracies that may be contained in this manual. The SELLER will NOT be liable for direct, indirect, incidental, special, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. Also, the technical information contained herein regarding the PT-R-HD20 features and specifications is subject to change without further notice.

Asking for Assistance

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