

## Package Contents

- 1pc .... HDMI Transmitter (TX)
- 1pc .... HDMI Receiver (RX)
- 2pc .... 240V Mains Power Adapter (AU)
- 1pc .... IR Signal Blaster (TX)
- 1pc .... IR Signal Reader (RX)
- 1pc .... User Guide

## Specifications

Video Signal Support	HDMI (0.5-1.0 volts p/p)
Amplifier Bandwidth	32Gbps (8 Gbps (800MHz) p/c)
Audio Format Support	LPCM, Dolby True-HD, DTS-HD
Ultra HD Resolutions	4K@120Hz YUV 4:4:4 via DSC 1.2a
Progressive Scan	480, 576, 720, 1080 50/60Hz
IR Frequency Range	20-60Khz
Transmission Distance	4K120 up to 30m / 1080 @ 100m
Operating Temperature	0°C to 50°C
Operating Humidity	5 to 90% RH (no condensation)
Power Supply	12V = 1A / 7.5W total max use
Dimensions	82 x 84 x 15mm (per unit)
Weight	125g (per unit, without cables)

**HDMI®**

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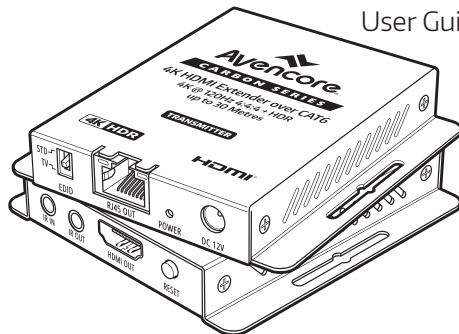
**WWW.AVENCORE.COM.AU**

Please retain this manual for future reference

## CARBON SERIES

### 4K HDMI® Extender over CAT6 4K @ 120Hz 4:4:4 + HDR

AV-Z-EX530  
User Guide



**Avencore®**

*Better cables. Smarter gadgets.*

# 4K HDMI Extender over CAT6

## 4K @ 120Hz 4:4:4 + HDR

### △ Safety Information

- **Safety** - Risk of electric shock. No user-repairable parts inside. Do not open or modify.
- **Environment** - Do not operate the device in direct sunlight, dusty environments, or in wet, raining or damp conditions. Designed for indoor use only.

### Basic Operation

#### Connecting Devices

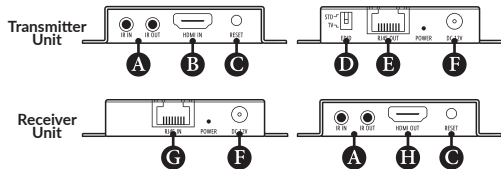
1. Connect the Power Adapters to each device **F**
2. Connect a Source device to the INPUT socket **B**
3. Connect a Display device to the OUTPUT socket **H**
4. Set EDID (STD = 4K120 / TV = Passthrough) **D**
5. Connect the RJ45 sockets directly **E G**
6. Connect the IR Reader (RX) to an IR IN socket **A** and the IR Blaster (TX) to the opposite IR OUT **A**
7. Use the RESET button if connection degrades **C**

**Note:** Use quality 48Gbps HDMI Cables under 3 metres for best video resolution and signal quality.

Use quality CAT6 or better cables up to 30m for improved stability and reliability over distance.

The IR repeater function may only operate in one direction at a time (forwards or backwards)

**Example:** Connect the IR Reader to the Receiver Unit IR IN, and the IR Blaster to the Transmitter IR OUT. The source remote control will now function from the remote display.



### Features

- HDMI up to 32Gbps with HDCP 2.3 support
- Leverages Display Stream Compression (DSC 1.2a)
- Ultra Low Latency suitable for gaming content
- Supports Ultra HD 4K @ 120Hz up to 4:4:4 chroma
- Supports Full HD 1080p @ 60Hz
- Supports High Dynamic Range (HDR10 & HLG)
- 12-bit/c Deep Colour Support
- 8.0 Gbit/s per channel, up to 32Gbit/s total
- HDMI Signal boosting for maximum performance
- Supports LPCM, Dolby True-HD and DTS-HD Audio
- Choice of EDID: 4K120Hz or Display Passthrough
- IR remote repeating to or from the Receiver

