



4K HDR Wireless Display Receiver

Model Name: EZCast Ultra



Version 0.91

03/12/2020

## Revision History

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<b>Rev</b>	<b>Date</b>	<b>Reason for Changes</b>
0.90	2020/03/03	• 1 <sup>st</sup> draft release
0.91	2020/03/12	• Update product feature
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## 1.0 Introduction

### 1.1 Brief

This document provides an overview of the requirements for the EZCast Ultra. EZCast Ultra is a true 4K HDR wireless display receiver. It integrates powerful video decoder and dual band 2.4GHz/5GHz Wi-Fi module with high sensitivity antennas to provide high-performance video streaming effect.

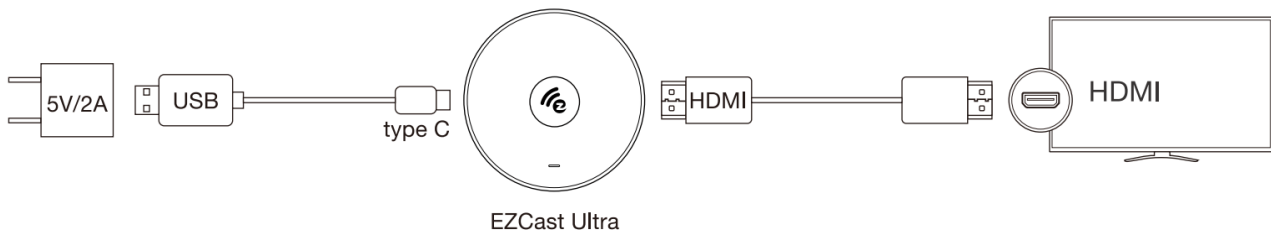
Model	EZCast Ultra
Main Chip	AM8275
Network	IEEE 802.11ac 2.4GHz/5GHz 1T1R Bluetooth
Display Output	HDMI 3840x2160/60p, 4096x2160/24p, 1920x1080/60p
Function	EZCast, EZAir, DLNA, Miracast, Google Home, Voice Control
Support OS	Android/iOS/Windows/macOS /ChromeOS
Color	Black
Power	DC5V/2A

### 1.2 Product Feature

- **WiFi/Bluetooth:**
  - IEEE 802.11ac 2.4GHz/5GHz 1T1R
  - Bluetooth
- **UHD Output:**
  - HDMI 1.4a Output
  - 4096 x 2160P@24fps video, audio output
  - 3840 x 2160P@60fps video, audio output
  - 1920 x 1080P@60fps video, audio output
- **EZCast App Support**
  - Support Windows/macOS/iOS/Android
  - Extension and Mirror with audio transmission for Windows/macOS
  - Video, Music and Photo streaming and playback
  - Live camera projection
  - Access and stream data from cloud storage
  - Support EZChannel, Auto Play and Cloud Control
  - Support Internet Wallpaper
- **OTA Firmware Upgrade**
- **Operating System Support:**
  - Windows 7/8/10 and above
  - Mac 10.10 and above
  - Chrome OS
  - iOS 10.0 and above
  - Android 4.4 and above
- **Support iOS/macOS Mirroring (EZAir)**
- **Support Miracast with HDCP**
- **Support DLNA Protocol (DMR)**

- **Support Google Home Mirroring**
- **Support Youtube TV**
- **Voice Control**
  - Amazon Alexa Control
  - Google Assistant Control
  - AliGenie smart speaker (天貓精靈)
  - Mi AI speaker (小愛同學)

### 1.3 Installation



- EZCast Ultra to power: Connect the type-C port to power (DC 5V/2A)
- EZCast Ultra to TV: Connect to the HDMI port of your TV/Projector/Monitor
- Connect to network: Connect to network wirelessly

## 2.0 Requirements

The following sections identify the detailed requirements of the EZCast Ultra.

### 2.1 Hardware Specification

#### 2.1.1 Main Component

	Hardware Component	Detailed Description
2.1.1.1	CPU	<ul style="list-style-type: none"> <li>• AM8275</li> </ul>
2.1.1.2	SDRAM	<ul style="list-style-type: none"> <li>• 256 MB DDR3</li> </ul>
2.1.1.3	Flash	<ul style="list-style-type: none"> <li>• 128 MB</li> </ul>

#### 2.1.2 Hardware Interface

	Feature	Detailed Description
2.1.2.1	HDMI Interface	<ul style="list-style-type: none"> <li>• HDMI 1.4a with HDCP 2.0</li> </ul>
2.1.2.2	Type-C Interface	<ul style="list-style-type: none"> <li>• Only for power input</li> </ul>
2.1.2.3	Button	<ul style="list-style-type: none"> <li>• Press 10s for reset the device to factory default</li> <li>• Press one time for switch Wi-Fi to 2.4G or 5G</li> </ul>

#### 2.1.3 LED Indicator

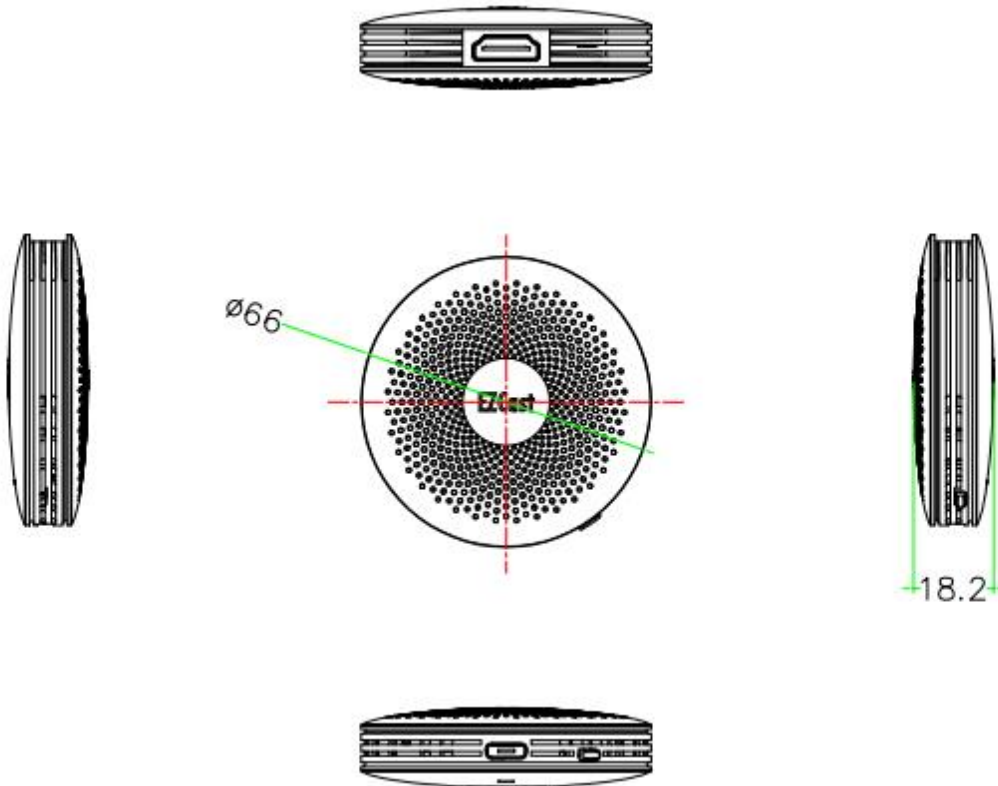
	Color	Status	Detailed Description
Power/Status LED	Blue	<ul style="list-style-type: none"> <li>• Solid Blue</li> </ul>	<ul style="list-style-type: none"> <li>• The device is power on and operating properly</li> </ul>
		<ul style="list-style-type: none"> <li>• <b>Blinking Blue</b></li> </ul>	<ul style="list-style-type: none"> <li>• <b>TBC</b></li> </ul>
		<ul style="list-style-type: none"> <li>• Light off</li> </ul>	<ul style="list-style-type: none"> <li>• The device is power off</li> </ul>

### 2.1.4 Electrical Characteristic

	Feature	Detailed Description
2.1.4.1	Power Input	<ul style="list-style-type: none"> <li>DC 5V/2A</li> </ul>
2.1.4.2	Power Consumption	<ul style="list-style-type: none"> <li>3.5W</li> </ul>

## 2.2 Mechanical Requirements

### 2.2.1 Dimension



### 2.2.2 Package Specification

	Feature	Detailed Description
2.2.2.1	Length	<ul style="list-style-type: none"> <li>66mm</li> </ul>
2.2.2.2	Width	<ul style="list-style-type: none"> <li>66mm</li> </ul>
2.2.2.3	Height	<ul style="list-style-type: none"> <li>18.2mm</li> </ul>
2.2.2.4	Weight	<ul style="list-style-type: none"> <li>43 g</li> </ul>

## 2.3 Environmental Requirements

	Feature	Detailed Description
2.3.1	Operating Temperature Conditions	<ul style="list-style-type: none"> <li>The product is capable of continuous reliable operation when operating in ambient temperature of 0 °C to +40°C.</li> </ul>
2.3.2	Non-Operating Temperature Conditions	<ul style="list-style-type: none"> <li>Neither subassemblies is damaged nor the operational performance be degraded when restored to the operating temperature after exposing to storage temperature in the range of -20 °C to +70 °C.</li> </ul>

2.3.3	Operating Humidity conditions	<ul style="list-style-type: none"> <li>The product is capable of continuous reliable operation when subjected to relative humidity in the range of 10% and 90% non-condensing.</li> </ul>
2.3.4	Non-Operating Humidity Conditions	<ul style="list-style-type: none"> <li>The product is not be damaged nor the performance be degraded after exposure to relative humidity ranging from 5% to 90% non-condensing.</li> </ul>

## 2.4 Certification Requirements

	Feature	Detailed Description
2.4.1	EMC/Safety	<ul style="list-style-type: none"> <li>CE, FCC, NCC, TELEC</li> </ul>
2.4.2	Other	<ul style="list-style-type: none"> <li>ROHS</li> </ul>

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