

3D Box

Specification



Revision History

Version	Release Date	Description
V1.0.0	January 12, 2024	Initial release

1 Overview

3D Box is developed by Colorlight to work with 3D emitter. It is suitable for various scenarios and can be connected in series anywhere within the control system, allowing for 3D visual effects when there are no available ports for 3D signal transmission. Through a “Broadcast+Serial connection” work mode, the 3D Box facilitates remote signal transmission between the 3D emitter and the processor, offering enhanced compatibility with 1G/5G control systems.

2 Certifications

The 3D Box has obtained RoHS and EMC (Class B) certifications. Feel free to contact Colorlight for assistants if any additional certifications are needed.

 Notes:

If the product does not have the relevant certifications required by the countries or regions where it is to be sold, please contact Colorlight to confirm or address the problem as soon as possible. Otherwise, the customer shall be responsible for the legal risks or Colorlight has the right to claim compensation.

3 Appearance

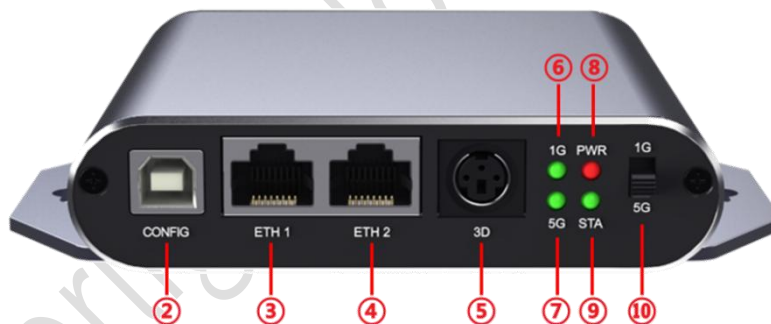
3.1 Front View



*The illustration is for reference only. The actual product may vary due to different hardware configuration and manufacturing process. Please refer to the actual product.

No.	Name	Description
①	DC 5V	Power supply connector (using 5V power adapter)

3.2 Rear View



*The illustration is for reference only. The actual product may vary due to different hardware configuration and manufacturing process. Please refer to the actual product.

No.	Name	Description
②	CONFIG	USB port for firmware upgrade and detection of the firmware' s basic information.
③	ETH1	5G/1G Ethernet port for signal input/output.
④	ETH2	5G/1G Ethernet port for signal input/output.
⑤	3D	3D port for connecting to an external 3D emitter.
⑥	1G	1G signal indicator Steady green: 1G mode without signal input.. Blinking green: 1G mode with signal input. The higher the frame rate of the image, the faster the indicator blinks.

⑦	5G	5G signal indicator Steady green: 5G mode without signal input. Blinking green: 5G mode with signal input. The higher the frame rate of the image, the faster the indicator blinks.
⑧	PWR	Power supply indicator: Steady red when power supply is stable.
⑨	STA	3D signal indicator Off: 3D is disabled; Or, 3D Box functions well but has not received 3D signal after power cycling. Steady green: 3D is enabled; And, 3D Box has once received 3D signal after power cycling but is not transmitting the signal. Blinking green (1 time/2s): Single 3D mode; Transmitting 3D signal properly. Blinking green (2 times/2s): Dual 3D mode; Transmitting 3D signal properly.
⑩	1G/5G	1G/5G switch for manually switching between 1G and 5G modes.

4 Advantages

- Display effect

3D function	Supports 3D video source in side-by-side/top-and-bottom format; Supports active 3D shutter glasses and 3D emitter.
-------------	---

- Easy maintenance

1G/5G switching	Supports manually switching between 1G and 5G mode as needed; Compatible with 1G/5G processor and receiving card.
Firmware upgrade	Supports effortless firmware upgrade through USB.
Flexible connection	The 3D Box can be connected in series at any point within the control system.

- Stable and reliable

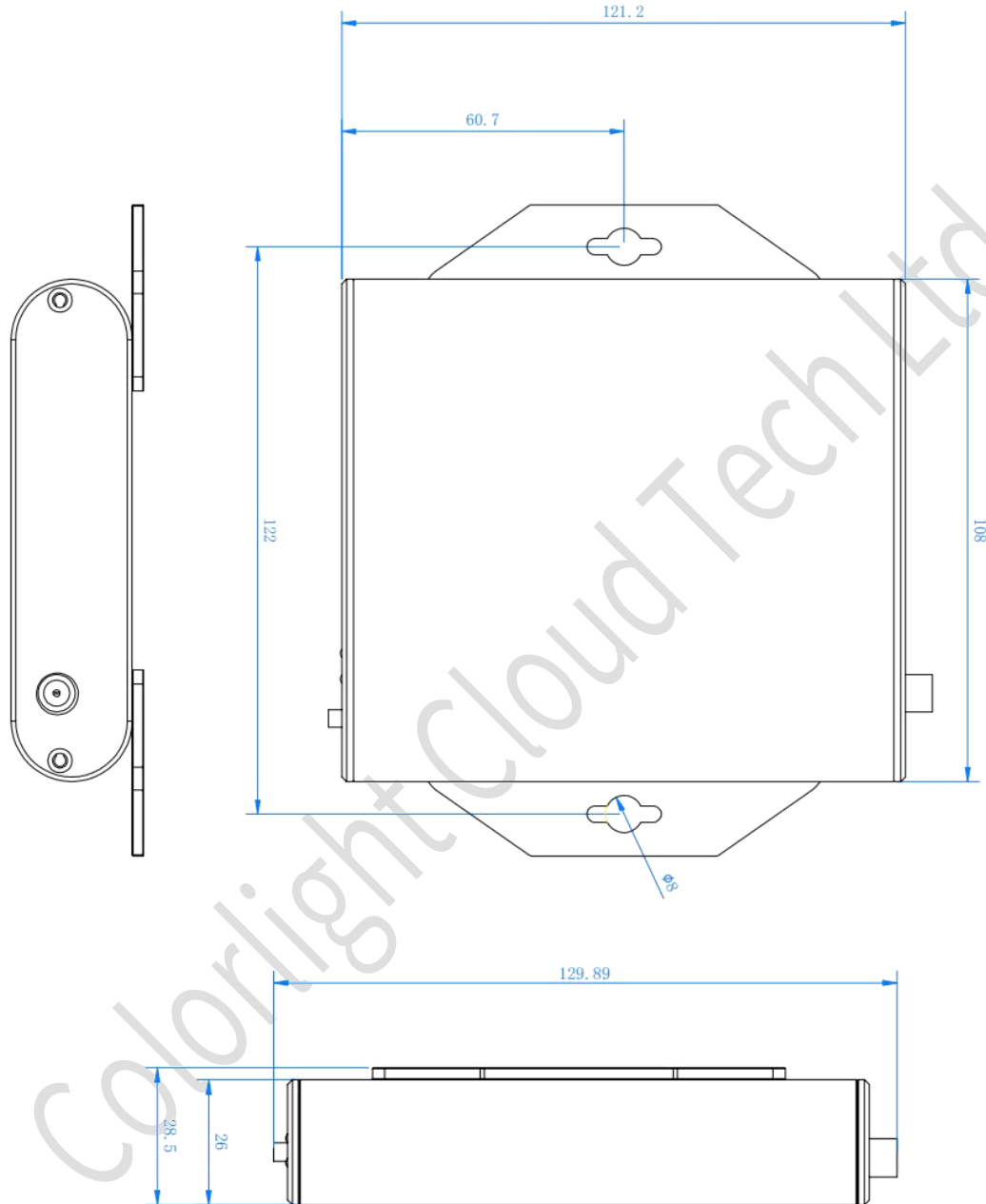
Loop redundancy	Supports connection to processor through the redundant ports, enhancing reliability of the connection and allowing for seamless signal switching when failure occurs, thus ensuring normal display.
No firmware lost	Supports upgrades without the risk of losing ARM firmware due to cable disconnections or power interruptions, thus eliminating the need to reprogram the 3D Box.

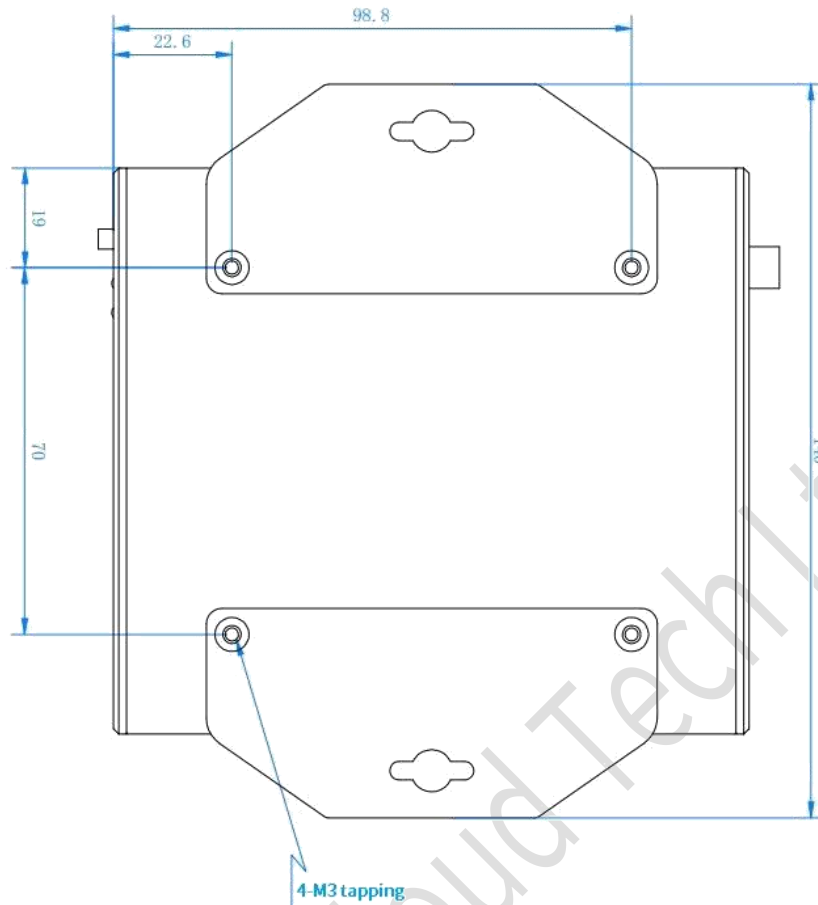
5 Specifications

Dimensions (L×W×H)	
Device	140.0mm (5.5")×129.9mm (5.1")×28.5mm (1.1")
Packing	Inner box: 415mm (16.3")×225mm (8.9")×52mm (2.0") Outer box: 575mm (22.6")×390mm (15.4")×326mm (12.8")
Standard packing	20×inner boxes in 1×outer box (1×3D Box in 1×inner box)
Ethernet port bandwidth	1Gb/s, 5Gb/s
Communication distance	1G: CAT5e≤100m; 5G: CAT6a≤80m
Compatibility	1G: Gigabit switch, Gigabit fiber optic transceiver; 5G: 5G fiber optic transceiver
Weight	
Net	264g (0.6lbs)
Electrical parameters	
Power supply	DC5V, 0.833A
Rated power	4.2W
Antistatic	2KV
Operating environment	
Temperature	-25°C~70°C(-13°F~158°F)
Humidity	0%RH~80%RH, non-condensing
Storage environment	
Temperature	-40°C~125°C(-40°F~257°F)
Humidity	0%RH~90%RH, non-condensing

6 Reference Dimensions

Unit: mm Tolerance: $\pm 0.5\text{mm}$






Statement

Copyright © 2024 Colorlight Cloud Tech Ltd. All rights reserved.

No part of this document may be copied, reproduced, transcribed, or translated without the prior written permission of Colorlight Cloud Tech Ltd, nor be used for any commercial or profit-making purposes in any form or by any means.

 **Colorlight®** The logo is a registered trademark of Colorlight Cloud Tech Ltd.

Without written permission of the company or the trademark owner, no unit or individual may use, copy, modify, distribute, or reproduce any part of the above and other Colorlight trademarks in any way or for any reason, nor bundle them with other products for sale.

Due to possible changes in product batches and production processes, the text and pictures in the document may be adjusted and revised to match accurate product information, specifications, and features. Colorlight may make improvements and changes to this document without prior notice. Please refer to the actual product.

Thank you for choosing Colorlight Cloud Tech Ltd product. If you have any questions or suggestions during use, please contact us through official channels. We will do our utmost to provide support and listen to your valuable suggestions. For more information and updates, please visit www.colorlightinside.com or scan the QR code.

Service Phone

4008 770 775

Colorlight Cloud Tech Ltd

Official Website: www.colorlightinside.com

Head Office Address: 37F-39F, Building 8, Zone A,

Shenzhen International Innovation Valley, Vanke Cloud City,

Nanshan District, Shenzhen, China

