Colorlight

TD1

3D Box

Specification V1.1

CONTENTS

01 INTRODUCTION

1.1 Overview

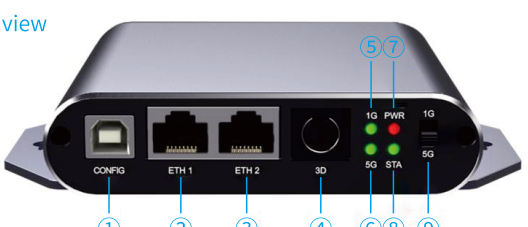
TD1 3D Box is developed by Colorlight to work with 3D emitter. It is suitable for various scenarios and can be connected in series anywhere within the control system, allowing for 3D visual effects when there are no available ports for 3D signal transmission. Through a “broadcast+serial connection” work mode, the 3D Box facilitates remote signal transmission between the 3D emitter and the processor, offering enhanced compatibility with 1G/5G control systems.

1.2 Appearance

Front view

No.	Name	Description
1	DC 5V	Connects to 5V power adapter to supply power.

Rear view



No.	Name	Description
1	CONFIG	USB port for firmware upgrade and firmware information detection.
2	ETH1	5G/1G Ethernet port for signal input or output.
3	ETH2	5G/1G Ethernet port for signal input or output.
4	3D	3D port for connecting to an external 3D emitter.
5	1G	1G signal indicator Steady green: In 1G mode without signal input. Blinking green: In 1G mode with signal input. The higher the input's frame rate, the faster the indicator blinks.
6	5G	5G signal indicator Steady green: In 5G mode without signal input. Blinking green: In 5G mode with signal input. The higher the input's frame rate, the faster the indicator blinks.
7	PWR	Power supply indicator Steady red when power supply is stable.
8	STA	3D signal indicator Off: 3D is disabled, or no 3D signal has been received by the 3D Box since the device's first successful launch. Steady green: 3D is enabled and the 3D Box has once received 3D signal but is not receiving the signal at the moment. Blinking green (1 time/2s): Single 3D mode. The 3D Box is transmitting 3D signal properly. Blinking green (2 times/2s): Dual 3D mode. The 3D Box is transmitting 3D signal properly.
9	1G/5G	1G/5G switch for manually switching between 1G and 5G mode.

02 FEATURES

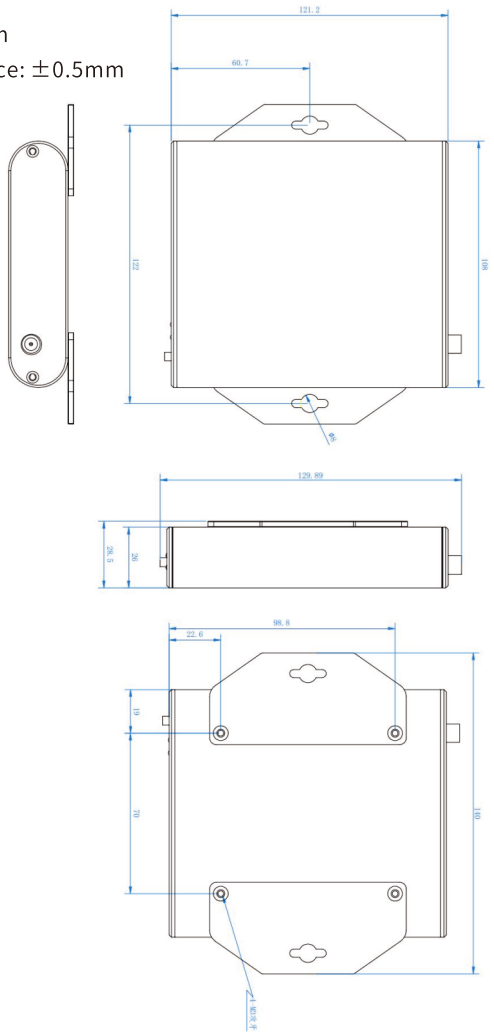
Display Effect	
3D function	Supports side-by-side/top-and-bottom 3D video source; Supports active 3D shutter glasses and 3D emitter.
Easy Maintenance	
1G/5G switching	Supports manually switching between 1G and 5G mode; Compatible with 1G/5G processor and receiving card.
Firmware upgrade	Supports effortless firmware upgrade through USB.
Flexible connection	The 3D Box can be connected in series at any point within the control system.
Stable & 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.

03 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
ESD Protection (HBM)	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

04 DIMENSIONS

Unit: mm
Tolerance: ±0.5mm



05 STATEMENTS

5.1 Certifications

RoHS, EMC (Class A)

Note: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.

5.2 Legal Statement

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.

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