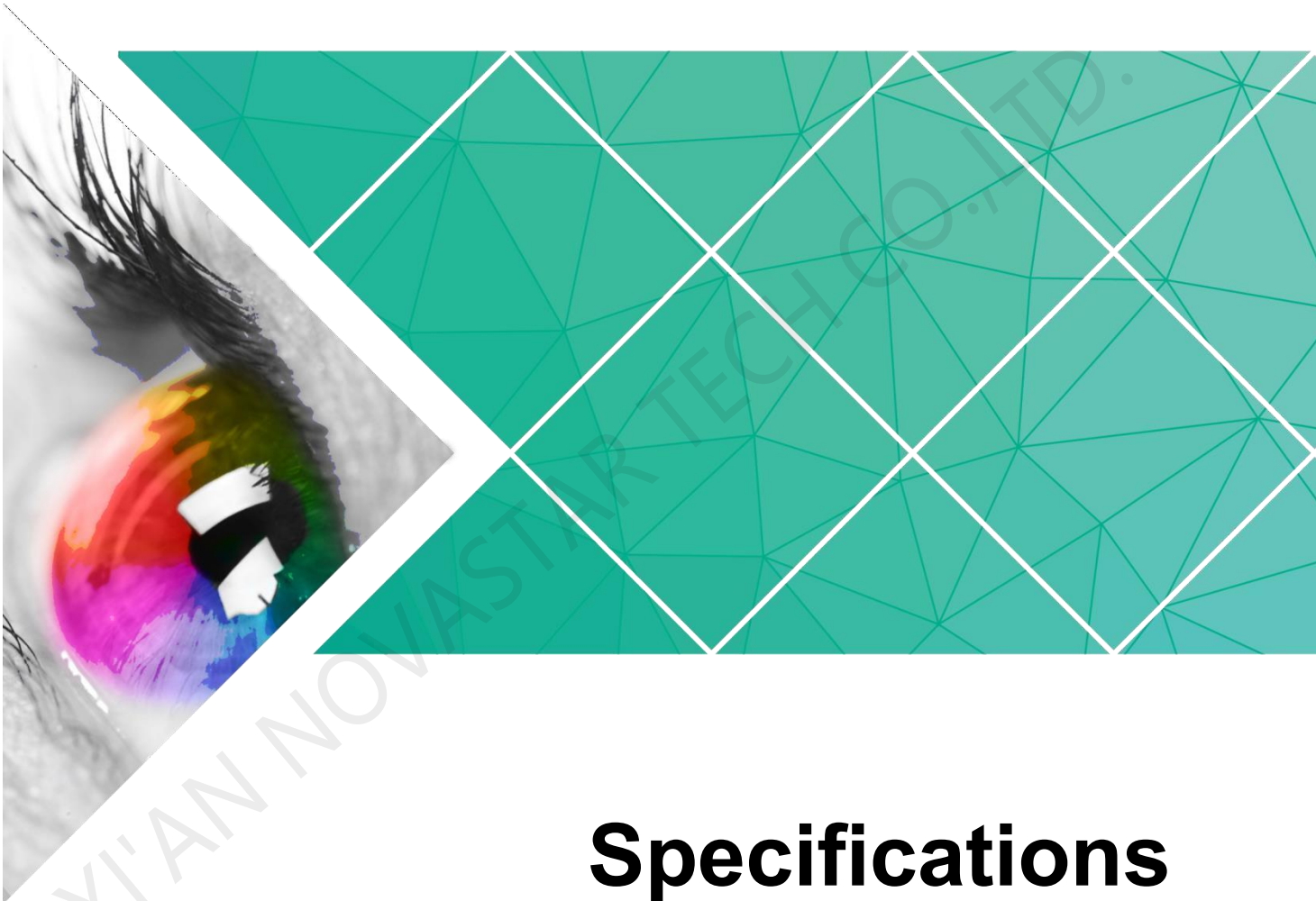


MCTRL500

Independent Controller



Specifications


Document Version: V2.3.1

Document Number: NS110100862

Copyright © 2019 Xi'an NovaStar Tech Co., Ltd. All Rights Reserved.

No part of this document may be copied, reproduced, extracted or transmitted in any form or by any means without the prior written consent of Xi'an NovaStar Tech Co., Ltd.

Trademark

 is a trademark of Xi'an NovaStar Tech Co., Ltd.

Statement

You are welcome to use the product of Xi'an NovaStar Tech Co., Ltd. (hereinafter referred to as NovaStar). This document is intended to help you understand and use the product. For accuracy and reliability, NovaStar may make improvements and/or changes to this document at any time and without notice. If you experience any problems in use or have any suggestions, please contact us via contact info given in document. We will do our best to solve any issues, as well as evaluate and implement any suggestions.

XI'AN NOVASTAR TECH CO., LTD.

Change History

Document Version	Release Date	Description
V2.3.1	2019-11-13	<ul style="list-style-type: none">• Updated the product pictures.• Updated the dimensions diagram.
V2.3.0	2019-05-15	<ul style="list-style-type: none">• Updated document style.• Optimized document content.

XI'AN NOVASTAR TECH CO., LTD.

Contents

Change History	ii
1 Overview	1
2 Features	2
2.1 Features	2
2.2 Video Formats	2
3 Appearance	3
3.1 Front Panel	3
3.2 Rear Panel	3
4 Dimensions	5
5 Specifications	6
6 FCC Caution	7

1 Overview

The MCTRL500 is an independent controller of NovaStar. The maximum loading capacity of a single controller is 1920×1200@60Hz. Multiple controllers can be cascaded via RS232 port for uniform control.

The MCTRL500 can be mainly used for the rental and fixed fields, such as concerts, live events, security monitoring centers, Olympic Games and various sports centers.

XI'AN NOVASTAR TECHNOLOGY CO., LTD.

2 Features

2.1 Features

- 1 × DVI input
- 1 × audio input
- 1 × DVI output
- 4 × RJ45 Gigabit Ethernet outputs
- 4 × 1.25G optical outputs
- RS232 control port to cascade devices for uniform control
- Supports resolutions up to 1920×1200@60Hz and downward compatibility.
- Supports the new generation of NovaStar calibration technology.
- Supports input monitoring.
- Multiple controllers can be cascaded.
- Supports a variety of video formats, as described in [Figure 2-1](#).

2.2 Video Formats

Figure 2-1 Video formats

Input Connector	Bit Depth	Sampling Format	Maximum Input Resolution
DVI	8-bit	RGB 4:4:4	1920×1200@60Hz

3 Appearance

3.1 Front Panel



Indicators	
PWR	Power indicator. It is always on after the power is supplied.
RUN	Device operating indicator. Working status: <ul style="list-style-type: none"> Flashing slowly: Video input unavailable Flashing normally: Video input available Flashing rapidly: The screen is displaying startup image. Breathing: Ethernet port redundancy has taken effect.
DVI	DVI indicator. Working status: <ul style="list-style-type: none"> Always on: DVI input available Off: DVI input is unavailable or DVI input is abnormal.

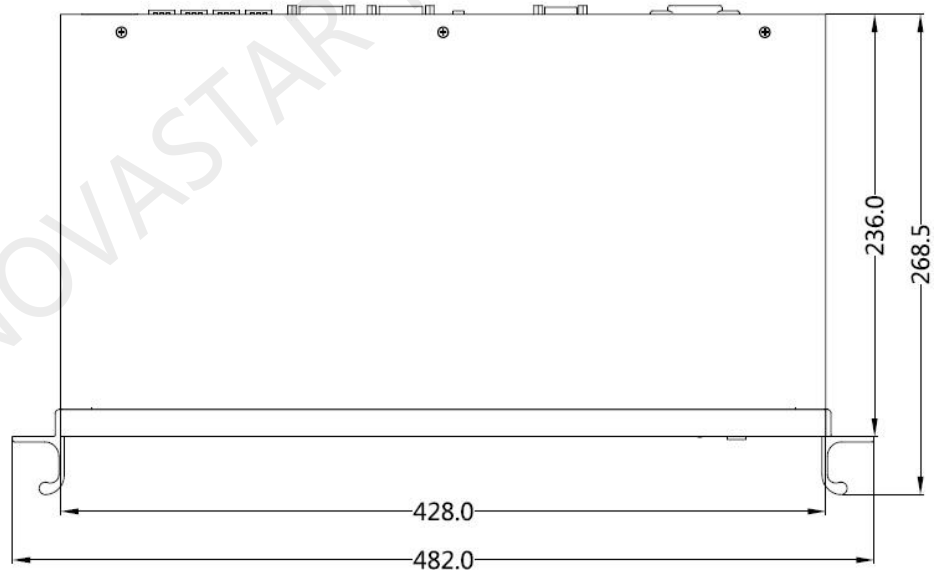
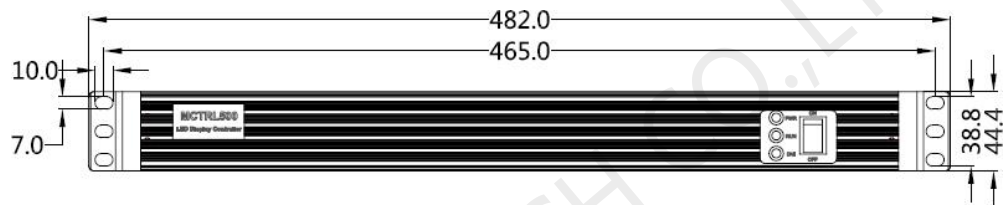
3.2 Rear Panel



Connector	Connector Name	Description
Input	DVI IN	<ul style="list-style-type: none"> Single-link DVI connector Resolution up to 1920×1200@60Hz and downward compatible Custom resolutions supported: Resolution with maximum width: 3840×600@60Hz

Connector	Connector Name	Description
		Resolution with maximum height: 800×2560@60Hz
	AUDIO	Audio input connector
Output	OUT 1–4	<ul style="list-style-type: none"> • 4 Gigabit Ethernet ports • Maximum loading capacity of a single Ethernet port: 650,000 pixels • Support redundancy between Ethernet ports.
	OPT 1–4	<ul style="list-style-type: none"> • 1.25G optical ports <ul style="list-style-type: none"> – Single-mode twin-core fiber: Support LC optical connectors; wavelength: 1310 nm; transmission distance: 10 km; OS1/OS2 recommended. – Dual-mode twin-core fiber: Support LC optical connectors; wavelength: 850 nm; transmission distance: 300 m; OM3/OM4 recommended. • The four optical ports correspond to the four Ethernet ports, respectively. OPT1 corresponds to OUT1. OPT2 corresponds to OUT2. OPT3 corresponds to OUT3. OPT4 corresponds to OUT4.
	DVI OUT	Single-link DVI output connector
Control	RS232 IN	Input port for cascading devices
	RS232 OUT	Output port for cascading devices
Power	AC 100V~240V-50/60Hz	

4 Dimensions



Unit: mm

5 Specifications

Electrical Parameters	Input voltage	AC 100 V–240 V, 50/60 Hz
	Rated power consumption	10 W
Operating Environment	Temperature	-20°C–60°C
	Humidity	0% RH–90% RH, non-condensing
Storage Environment	Temperature	-20°C–70°C
Physical Specifications	Dimensions	482.0 mm × 268.5 mm × 44.4 mm
	Weight	2.9 kg
	Space Requirement	1U
Packing Information	Carrying case	530 mm × 140 mm × 370 mm, craft paper box
	Accessory box	402 mm × 347 mm × 65 mm, craft paper box <ul style="list-style-type: none"> • 1 × power cord • 1 × USB cable • 1 × DVI cable
	Packing box	550 mm × 440 mm × 175 mm, craft paper box
Certifications	FCC, RoHS, EAC, IC, PFOS, LVD, EMC	

6 FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.