

Taurus Series

Multimedia Players



TB1 Specifications

Product Version:

V1.0.0

NovaStar Tech Document Number:

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Change History

Version	Release Date	Description
V1.0.0	2017-11-30	First release.

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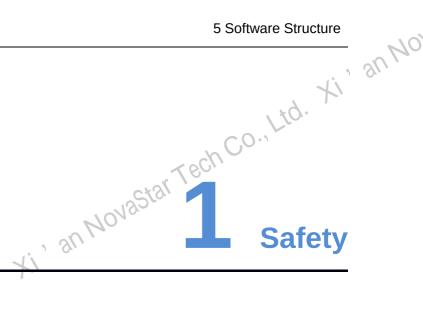
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This chapter illustrates Taurus series products safety to ensure storage, transportation, installation and usage safety of the products.

Safety description is applicable to all p First, pay attention to following points:

Read throughout the description

Save the who Safety description is applicable to all personnel that contact or use the products.

- Be complied with the whole description.

1.1 Storage and Transport Safety

- Pay attention to dust and water prevention.
- Avoid long-term direct sunlight.
- Xi, SU MONStar Lech C Do not place the products at the position near fire and heat.
- Do not place the products in an area containing explosive materials.
- Do not place the products in strong electromagnetic environment.
- Place the products at a stable position to prevent damage or personal injury caused by dropping.
- Save the packing box and materials which will come in handy if you ever have to ship your products. For maximum protection, repack your product as it was originally packed at the factory.

1.2 Installation and Use Safety

- Only trained professionals may install the products.
- Do not insert and unplug (power cord plug) when the power is on.
- Ensure the safe grounding of the device.
- Be careful about electric shock risk.
- Always wear a wrist band and insulating gloves.

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- Do not place the products in an area having more or strong shake.
- Perform dust removing regularly.
- Do not maintain the products without authorization but contact NovaStar as soon as possible.
- Replace spare parts only with the same parts supplied by NovaStar.

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2.1 Introduction

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Taurus series products are the second generation of multimedia players dedicated to small and media size LED full color display developed by NovaStar.

Tig. Xi, SUMONSE TB1 of the Taurus series products (herein after referred to as "TB1") feature following advantages, better satisfying users' requirements:

- Loading capacity up to 650,000 pixels
- Synchronization display
- Powerful processing capability
- Omnidirectional control plan
- Wi-Fi AP connection

NovaStar Tech C If the user has a high demand on synchronization, the time synchronization module is recommended. For details, please consult our technical staff.

In addition to program publishing and screen control via PC, mobile phones and LAN, Wastar Tech Co. the omnidirectional control plan also supports remote centralized publishing and monitoring.

2.2 Application

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Taurus series products can be widely used in LED commercial display field, such as bar screen, chain store screen, advertising machine, mirror screen, retail store screen, door head screen, on board screen and the screen requiring no PC.

Classification of Taurus' application cases is shown in Table 2.2.1.1.1.1.1.

Table 2.2.1.1.1.1.1 Application

Classification	Description
Market type	 Advertising media: To be used for advertising and information promotion including bar screen and advertising machine.
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Classification	Description
	 Digital signage: To be used for signage display in retail stores including retail store screens and door head screens. Commercial display: To display commercial information of hotel, cinema and shopping mall, such as chain store screens.
Networking node	 Independent screen: Use a PC or the client software of a mobile phone to enable single- point connection and management of a screen.
	Cluster screen: Use the cluster solution developed by NovaStar to realize centralized management and monitor of multiple screens.
Connection ype	Wired connection: A PC connects to Taurus through the Ethernet cable or LAN.
91, 10	 Wi-Fi connection: PC, Pad and mobile phone can connect to Taunus through Wi-Fi, which can be enabled in the case without PC in conjunction with ViPlex software.
	Jetworking node

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3.1 Synchronous Display

The TB1 support switching on/off function of synchronous display.

When synchronous display is enabled, the same content can be played on different displays synchronously if the time of different TB1 units are synchronous with one another and the same program is being played.

1 GB operating memory and 8 GB internal storage space 3.2 Powerful Processing Capability

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3.3 Omnidirectional Control Plan

Table 3.3.1.1.1.1.1 Control Plan

	Control Plan	Connecting Mode	Client Terminal	Related Software
	Program publishing and screen control through PC	Connection via network line Connection via Wi-Fi	PC	ViPlex Express NovaLCT-Taurus
NovaStar Tech Co.	Program publishing and screen control through LAN	Connection via LAN	PC	ViPlex Express NovaLCT-Taurus
Monaction				

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Control Plan	Connecting Mode	Client Terminal	Related Software
Program publishing and screen control through mobile phone	Connection via Wi-Fi	Mobile phone and Pad	ViPlex Handy
Cluster remote program publishing and screen control	Connection via network line Connection via Wi-Fi	Mobile phone, Pad and PC	VNNOX ViPlex Handy ViPlex Express
Cluster remote monitoring	Connection via network line Connection via Wi-Fi	Mobile phone, Pad and PC	NovaiCare ViPlex Handy ViPlex Express

- More efficient: Use the cloud service mode to process services through a uniform platform. For example, VNNOX is used to edit and publish programs, and NovaiCare is used to centrally monitor display status.

 More reliable: Ensure the reliability based on active and standard recovery mechanism and data backup mechanism.

 More safe: Ensure the system fingerprint and the system financial system for the system fingerprint and the system financial system for the system financial system financial system for the system financial system f

 - peration can be performed anytime and anywhere.

 Inviore effective: This mode is more suitable for the commercial mode of advertising industry and digital signage industry, and makes information spreading more effective.

3.4 Wi-Fi AP Connection

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The TB1 has permanent Wi-Fi AP. The SSID is "AP + the last 8 digits of the SN", for example, "AP10000033", and the default password is "12345678". The TB1 none, Pan Nova an Nova NovaStar Tech Co., Ltd. requires no wiring and users can manage the displays at any time by connecting to the TB1 via mobile phone, Pad or PC.

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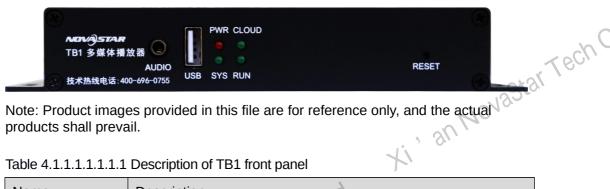
star Tech Co., Ltd. Xi, Su Monagian Lech Co., Tiq. Xi, Su Mo td an NovaStar Tech TB1's Wi-Fi AP signal strength is related to the transmit distance and environment. Users can change the Wi-Fi antenna as required. Xi, an MovaStar Tech Co., Ltd. Xi, an MovaStar Tech Co., Ltd. Xi, chor Tach Co. Lid.

4 ArHardware Structure

4.1 Appearance

Tig. Xi, Su Mong. 4.1.1 Front Panel

Figure 4.1.1.1.1.1 Front panel of the TB1



	Name	Description
	AUDIO	Audio output
	USB	USB2.0 port
	PWR	Power status indicator
		Always on: Power input is normal.
	SYS , an	System status indicator
	id. Xi	 Flashing once every 2 seconds: The system is operating normally.
. Co.	Lie	 Flashing once every 0.5 second: The system is downloading data from the Internet.
NovaStar Tech Co.		 Always on/off: The system is operating abnormally.
i algeta,	CLOUD	Internet connection status indicator
Mo,		 Always on: The unit is connected to the Internet and the connection status is normal.
		. *0

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Name	Description
	 Flashing once every 2 seconds: The unit is connected to VNNOX and the connection status is normal.
RUN	FPGA status indicator
	Same as the signal indicator status of the sending card: FPGA is operating normally.
RESET	Factory reset button
	Hold down for 5 seconds to reset to factory defaults.

4.1.2 Rear Panel

Figure 4.1.2.1.1.1 Rear panel of the TB1



Note: Product images provided in this file are for reference only, and the actual products shall prevail.

Table 4.1.2.1.1.1.1 Description of TB1 rear panel

products shall prevail.	d in this file are for reference only, and the actual	Tech
Table 4.1.2.1.1.1.1 Descriptio	n of TB1 rear panel	1760
Name	Description). V
ETHERNET	Gigabit Ethernet port	
WiFi-AP	Wi-Fi antenna port	
LEDOUT	Output Ethernet port	
PWR	Power input	

4.2 Dimensions

Sions
Unit of the dimensions is "mm". Ground connection is enabled for location hole MovaStar Tech Co., Ltd. Xi, an

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star Tech Co., Ltd. 20.1 Fig. Xi, 8W Mo. Ø4.0±0.1 4.0±0.1 102.5 ± 0.1 Ltd. Xi, an MovaStar Xi, an NovaStar Tech Co., Ltd. Xi, an NovaStar Tech Co., Ltd. Xi'

5 an Software Structure ftware

5.1 System Software

- Android operating system software
- Android terminal application software
- FPGA program

Tiq. Xi, Su Monse 5.2 Related Configuration Software

Table 5.2.1.1.1.1.1 Related configuration software

	Table 5.2.1.1.1.1.1 Relate	Software ed configuration software Description
	ViPlex Handy	Mobile phone client software of the TB1 includes Android and iOS which are mainly used for screen management, editing, and program publishing.
	ViPlex Express	PC client software of the TB1 only includes Windows which is mainly used for screen management, editing, and program publishing.
	NovaLCT-Taurus NO	Display screen configuration software works in Windows only, and is used to adjust screens to the best display status.
iar Tech Co	itd.	

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ar Tech Co., Lite		Vi, sir	Specifications 178 mm×102.5 mm×28.5 mm	3/1/8
		Ltd.		
	TB1 Item	Sub-Item	Specifications	
	Physical	Dimensions(H×W×D)	178 mm×102.5 mm×28.5 mm	
, alg	specifications	Weight	380.1 g	
Wyo.		Input voltage	5 V DC	
id. Xi, su Monse		Rated power consumption	10 W 0°C-50°C 0% RH-80% RH -40°C-75°C 0% RH-80% RH	
io.		Storage temperature	0°C-50°C	780
		Storage humidity	0% RH-80% RH	7,
		Operating temperature	-40°C-75°C	
		Operating humidity	0% RH-80% RH	
		Operating memory	1 GB	
		Internal storage space	8 GB.O.	
	Packing	Dimensions((H×W×D)	335 mm×190 mm×62 mm	
NovaStar Tech Co	information	List Tech	 TB1 LED multimedia player x 1 Switched-mode 	
	19. Ki, 8	<i>'</i> C',	power supply (HXF-25W-12V) x 1	
roch Co	Lice		Columned Wi-Fi omnidirectional antenna x 1	
JOVaStar	Characteristics	 Support maximun height of 	650,000 pixel loading capacity, with m width of 1920 pixels and maximum 1080 pixels.	
		Support '	Wi-Fi AP connection.	

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- Support Gigabit wired network.
- Support stereo audio output.
- 1-Way USB interface supports USB drive importing display.
- Onboard brightness sensor interface supports automatic and timing smart brightness adjustment.

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