

Taurus Series

Tech Co., Ltd. Xi, an No. **Multimedia Players**



TB2 Specifications

Product Version: V1.0.0

NovaStar Tech Document Number: NS120100176

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Version	Release Date	Description			
V1.0.0	2017-11-30	First release.			
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SU MONSELS This chapter illustrates Taurus series products safety to ensure storage. transportation, installation and usage safety of the products.

Safety description is applicable to all personnel that contact or use the products. First, pay attention to following points:

- Read throughout the description.
- Save the whole description.
- Be complied with the whole description.

1.1 Storage and Transport Safety

- Pay attention to dust and water prevention.
- Avoid long-term direct sunlight.
- 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.
- Do not place the products in an area having more or strong shake.
- Perform dust removing regularly.

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2 Control Xi, an Novastar Toverview second respectively.

2.1 Introduction

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

TB2 of the Taurus series products (herein after referred to as "TB2") feature following Ltd. Xi, SUMONSta advantages, better satisfying users' requirements:

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

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 control the omnidire of the control of the co

the omnidirectional control plan also supports remote centralized publishing and monitoring. iech Co., Lid.

2.2 Application

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

	Table 2:2:1:1:1:1:	add 2.2.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		
C 0	Classification	Description		
starTech	Market type	 Advertising media: To be used for advertising and information promotion including bar screen and advertising machine. 		
MovaStai		Digital signage: To be used for signage display in retail stores including retail store		
		4		

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	Classification	Description
		screens and door head screens.
		 Commercial display: To display commercial information of hotel, cinema and shoppin mall, such as chain store screens.
	Networking mode	 Independent screen: Use a PC or the clie software of a mobile phone to enable singl point connection and management of screen.
		Cluster screen: Use the cluster solution developed by NovaStar to realize centralize management and monitor of multiple screens.
	Connection type	Wired connection: A PC connects to Tauru through the Ethernet cable or LAN.
g. Xi, su Mons	Star Tech Co	 Wi-Fi connection: PC, Pad and mobile phor can connect to Taunus through Wi-Fi, which can be enabled in the case without PC conjunction with ViPlex software.

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3.1 Synchronous Display

The TB2 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 TB2 units are synchronous with one another and the same program is being played.

3.2 Powerful Processing Capability

- 1.5 GHz four-core processor.
- Support for 1080P video hardware decoding.
- Xi, su Monastar Lech C 1 GB operating memory and 8 GB internal storage space.

3.3 Omnidirectional Control Plan

Table 3.3.1.1.1.1.1 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	
Program publishing and screen control through LAN	Connection via LAN	PC	ViPlex Express NovaLCT-Taurus	
Program publishing and screen control through mobile phone	Connection via Wi-Fi	Mobile phone and Pad	ViPlex Handy	

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Control Plan	Connecting Mode	Client Terminal	Related Software
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

Cluster control plan is a new internet control plan featuring following advantages:

- 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 standby disaster recovery mechanism and data backup mechanism of the server.
- More safe: Ensure the system safety through channel encryption, data
- Easier to use: VNNOX and NovaiCare can be accessed through Web. As long as there is internet, operation can be performed anytime and anywhere.
- More safe: Ensure the system safety throfingerprint and permission management.
 Easier to use: VNNOX and NovaiCare as there is internet, operation
 More effective: The advertise More effective: This mode is more suitable for the commercial mode of NovaStar Tech C advertising industry and digital signage industry, and makes information

3.4 Synchronous and Asynchronous Dual-Mode

The TB2 supports synchronous and asynchronous dual-mode, allowing more application cases and being user-friendly.

When internal video source is applied, the TB2 is in asynchronous mode; when HDMI-input video source is used, the TB2 is in synchronous mode. Content can be scaled and displayed to fit the screen size automatically in synchronous mode.

Users can manually and timely switch between synchronous and asynchronous modes, as well as set HDMI priority.

3.5 Wi-Fi AP Connection

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requires no wiring and users can mana the TB2 via mobile phone, Pad or PC. The TB2 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 TB2 requires no wiring and users can manage the displays at any time by connecting to

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star Tech Co., Ltd. xi, an Novastar Tech Co., Ltd. Multimedia Players AP siq an change CO. TB2's Wi-Fi AP signal strength is related to the transmit distance and environment. Users can change the Wi-Fi antenna as required.

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Hardware Structure Xi, SU MONS

4.1 Appearance

4.1.1 Front Panel

Figure 4.1.1.1.1.1 Front panel of the TB2



Table 4.1.1.1.1.1.1 Description of TB2 front panel

		prevail. Description of TB2 front panel
	Name	Description
	AUDIO	Audio output
	USB	USB2.0 port
	PWR	Power status indicator
		Always on: Power input is normal.
	SYS	System status indicator
		System status indicator Flashing once every 2 seconds: The system is operating normally. System status indicator
	Ki, Su,	 Flashing once every 0.5 second: The system is downloading data from the Internet.
C 0	Tig. X	Always on/off: The system is operating abnormally.
- och Os	CLOUD	Internet connection status indicator
JovaStar Tech Co		 Always on: The unit is connected to the Internet and the connection status is normal.
70		Flashing once every 2 seconds: The unit is

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Name	Description		
	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.		
SWITCH	Button for switching between synchronous and asynchronous modes		
	Always on: Synchronous modeOff: Asynchronous mode		



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

Table 4.1.2.1.1.1.1 Description of TB2 rear panel

Name	Description
ETHERNET	Gigabit Ethernet port
WiFi-AP	Wi-Fi antenna port
HDMI IN	HDMI 1.4 input
LEDOUT	Output Ethernet port
PWR NOVA	Power input

4.2 Dimensions

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Diunit of the dimension chart is "mm". Ground connection is enabled for location hole (GND).

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Software Structure Xi, SU MONS,

5.1 System Software

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

Note: The third-party applications are not supported.

5.2 Related Configuration Software

Table 5.2.1.1.1.1.1 Related configuration software

1		
	Software	Description
	ViPlex Handy	Mobile phone client software of the TB2 includes Android and iOS which are mainly used for screen management, editing, and program publishing.
	ViPlex Express	PC client software of the TB2 only includes Windows which is mainly used for screen management, editing, and program publishing.
	NovaLCT-Taurus	Display screen configuration software works in Windows only, and is used to adjust screens to the best display status.
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6 Specifications

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	Item	Sub-Item	Specifications
Tig. Xi, su Mons.	Physical specifications	Dimensions (W x D x H)	178 mm×102.5 mm×28.5 mm
		Weight	384.1 g
	1 ech	Input power supply	5 V DC
C	tal ,	Rated power consumption	15 W
Holya		Storage temperature	0°C-50°C
(i, 311)		Storage humidity	0% RH-80% RH
1d. X1		Operating temperature	-40°C-75°C
Lion		Operating humidity	0% RH-80% RH
		Operating memory	1 GB
		Internal storage space	8 GB NO10
	Packing	Dimensions (W x D x H)	335 mm×190 mm×62 mm
	information	List	• TB2 LED multimedia player x 1
		List NovaStar Tech Co	Switched-mode power supply (HXF-25W-12V) x 1
		WHONGE	 Columned Wi-Fi omnidirectional antenna x 1
Movastar Tech Co.	Characteristics	Support (maximum	650,000 pixel loading capacity, with width of 1920 pixels and maximum 1080 pixels.
z och Us		Support Wi-Fi AP connection.	
Ctal		• •	Gigabit wired network. stereo audio output.
~10/82°		• •	HDMI input mode.
140		• •	HDMI input full-screen self-adaptive

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display.

Support manual and timing switching between

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