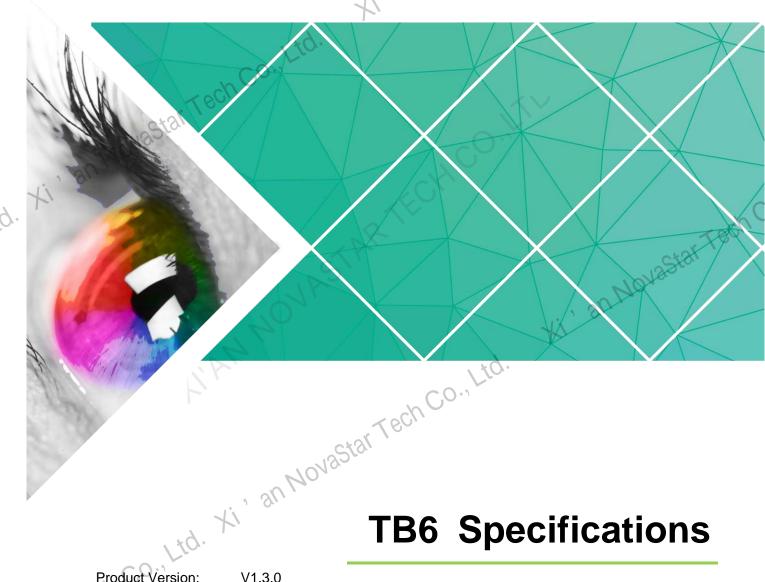


Taurus Series An Multimed!



TB6 Specifications

Product Version: V1.3.0

Document Number: NS120100254

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Taurus Series Multimedia Players

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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 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 Pav attention

- 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.
- Devices must be placed horizontally during installation and use.
- Ensure the safe grounding of the device.
- Built-in power supply supports 100 V to 240 V AC.
- 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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- Do not maintain the products without authorization but contact NovaStar as soon as possible. as possible.

 Replace spare parts only with the same parts supplied by NovaStar.

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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.

TB6 of the Taurus series products (herein after referred to as "TB6") feature following advantages, better satisfying users' requirements:

- Tiq. Xi, SUMONSETSI Loading capacity up to 1,300,000 pixels
 - Synchronization mechanism for multi-screen playing
 - Powerful processing capability
 - Omnidirectional control plan
 - Synchronous and asynchronous dual-mode
 - Dual-Wi-Fi mode
 - Redundant backup

Note:

aStar 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, the omnidirectional control plan also supports remote centralized publishing and monitoring. Tech Co.,

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.

	1 '0	aurus' application cases is shown in Table 2-1.
toch Co.	Classification	Description
NovaStarTeo	Market type	Advertising media: To be used for advertising and information promotion including bar screen and advertising machine.
Horse		 Digital signage: To be used for signage display in retail stores including retail store screens and door head screens.

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- an No.

*.V,		
	Classification	Description
		Commercial display: To display commercial information of hotel, cinema and shopping mall, such as chain store screens.
	Networking mode	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 type	Wired connection: A PC connects to Taurus through the Ethernet cable or LAN.
	ch Co	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.
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		OVASTAR The Ovastar
		Tech Co., Lid.

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an N

3.1 Synchronization mechanism for multi-screen playing

The TB6 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 TB6 units are synchronous with one another and the same program is being played.

3.2 Powerful Processing Capability Ltd. Xi, an

The TB6 features powerful hardware processing capability:

- Juware decoding

 Juperating memory

 8 GB on-board internal storage space with 4 GB available for users

 Ctional Control Diagram

3.3 Omnidirectional Control Plan

Table 3-1 Control Plan

NovaStar Tech Co

irectional C	Control Plan	Co., Tig.	
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
Program publishing and screen control through LAN	Connection via LAN	PC	ViPlex Express NovaLCT

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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	Wi-Fi AP+Sta/wired	Mobile phone, Pad and PC	VNNOX ViPlex Handy ViPlex Express
Cluster remote monitoring	Wi-Fi AP+Sta/wired	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.
- Tiq. Xi, SUMONSE More reliable: Ensure the reliability based on active and standby disaster recovery mechanism and data backup mechanism of the server.
 - 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 effective: This mode is more suitable for the commercial mode of advertising industry and digital. More safe: Ensure the system safety through channel encryption, data fingerprint

 - advertising industry and digital signage industry, and makes information spreading more effective.

3.4 Synchronous and Asynchronous Dual-Mode

The TB6 supports synchronous and asynchronous dual-mode, allowing more application cases and being user-friendly.

When internal video source is applied, the TB6 is in asynchronous mode; when HDMI-input video source is used, the TB6 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 Dual-Wi-Fi Mode NovaStar

The TB6 have permanent Wi-Fi AP and support the Wi-Fi Sta mode, carrying advantages as shown below:

Completely cover Wi-Fi connection scene. The TB6 can be connected to through self-carried Wi-Fi AP or the external router.

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- Completely cover client terminals. Mobile phone, Pad and PC can be used to log in TB6 through wireless network.
- Require no wiring. Display management can be managed at any time, having improvements in efficiency.

TB6's Wi-Fi AP signal strength is related to the transmit distance and environment. Users can change the Wi-Fi antenna as required.

3.5.1 Wi-Fi AP Mode

Users connect the Wi-Fi AP of a TB6 to directly access the TB6. The SSID is "AP + the last 8 digits of the SN", for example, "AP10000033", and the default password is "12345678".



3.5.2 Wi-Fi Sta Mode

Sta Mode

Configure an external router for a TB6 and users can access the TB6 by connecting the external router. If an external router is configured for multiple TB6 units, a LAN can be created. Users can access any of the TB6 via the LAN.

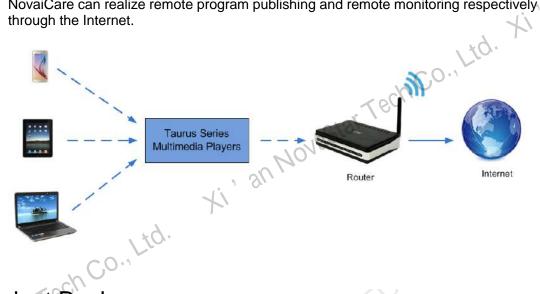


3.5.3 Wi-Fi AP+Sta Mode

In Wi-Fi AP+ Sta connection mode, users can either directly access the TB6 or access internet through bridging connection. Upon the cluster solution, VNNOX and

Star Tech Co., Lic

NovaiCare can realize remote program publishing and remote monitoring respectively through the Internet.



- Network redundant backup: The TB6 automatically selects internet connection mode among wired network or Wi-Fi Sta network according to the priority.
- TB6 support network redundant backup and Ethernet port redundant backup.

 Network redundant backup: The TB6 automatically selects interest mode among wired network or Wi-Fi Sta network.

 Ethernet port redundant through ..sed to

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Hardware Structure Xi, SU MONSESTER

4.1 Appearance

4.1.1 Front Panel

Figure 4-1 Front panel of the TB6



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

Table 4-1 Description of TB6 front panel

	•	CX'?
	Name	Description
	PWR	Power status indicator
	40	Always on: Power input is normal.
	SYS	System status indicator
	LIK.	Flashing once every 2 seconds: The system is operating normally.
	,	 Flashing once every 0.5 second: The system is downloading data from the Internet.
		Always on/off: The system is operating abnormally.
	CLOUD	Internet connection status indicator
	Xi, 3U,	 Always on: The unit is connected to the Internet and the connection status is normal.
	Ltd.	 Flashing once every 2 seconds: The unit is connected to VNNOX and the connection status is normal.
$^{\circ}$ Co.	RUN	FPGA status indicator
Ctal Leci,		Same as the signal indicator status of the sending card: FPGA is operating normally.
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-		

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

4.1.2 Rear Panel

Figure 4-2 Rear panel of the TB6



Table 4-2 Description of TB6 rear panel

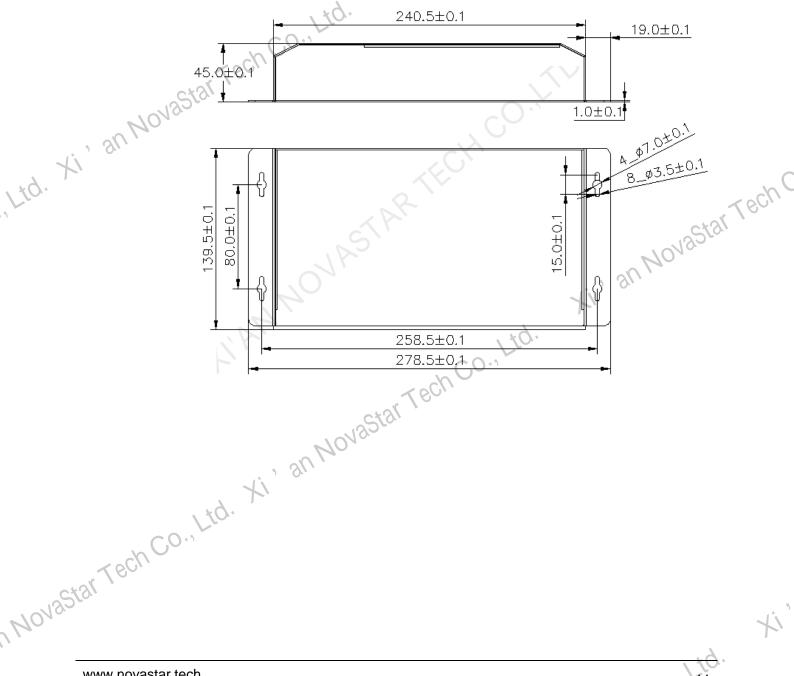
Vi , W.	Name	ear panel Description	
Tig. Xi, su Mongo	TEMP	Temperature sensor port	-\0
	LIGHT	Temperature sensor port Light sensor port	3C/
	WiFi-AP	Wi-Fi AP antenna port	
	WiFi-STA	Wi-Fi Sta antenna port	
	COM1	Reserved	
	COM2	Reserved	
	ETHERNET an Nova	Gigabit Ethernet port Indicator status: • Yellow indicator always on: The unit is connected to 100M Ethernet cable and the status is normal. • Green and yellow indicators always on at the same time: The unit is connected to Gigabit Ethernet cable and the status is normal.	
	USB 🗡	USB 2.0 port	
CO	НОМІ	IN: HDMI 1.4 inputOUT: HDMI 1.4 output	
Tech	AUDIO OUT	Audio output	
JovaStar Tech Co	RESET	Factory reset button Press and hold the button for 5 seconds to reset the unit to factory settings.	+

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Name	Description
LED OUT	Output Ethernet port
ON/OFF	Power switch
100-240V~,50/60Hz	Power input
sions	, an NovaStar To

4.2 Dimensions

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



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Software Structure , an MovaStal

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 5-1 Related configuration software

ViPlex Handy Mobile phone client software of the TB6 includes Android and iOS which are mainly used for screen management, editing, and program publishing. ViPlex Express PC client software of the TB6 only includes Windows which is mainly used for screen management, editing, and program publishing. NovaLCT Display screen configuration software works in Windows only, and is used to adjust screens to the best display status.	io.	Software	Description
which is mainly used for screen management, editing, and program publishing. NovaLCT Display screen configuration software works in Windows only, and is used to adjust screens to the best display.		ViPlex Handy	and iOS which are mainly used for screen management,
only, and is used to adjust screens to the best display		ViPlex Express	which is mainly used for screen management, editing,
JovaStar Tech Co., Ltd. Xi, an NovaStar 18			only, and is used to adjust screens to the best display
	JovaStar Tech Co	Tig. Xi, SUMO,	Napr

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Product Specifications an Nova Stall an Nova Stall

Specifications

		Product	Specification
Specifications		4, 31 M	ovaStall
	Item	Sub-Item	Specifications
	Physical	Dimensions (W x D x H)	278.5 mm × 139.5 mm × 45.0 mr
	specifications	Weight	1335.7 g
	Tech	Input power supply	100 V-240 V AC
Xi, SU MOASE	tar,	Maximum power consumption	18 W
30/10		Storage temperature	0°C-50°C
K		Storage humidity	0% RH-80% RH
, *		Operating temperature	-40°C-80°C
		Operating humidity	0% RH-80% RH
		Operating memory	2 GB ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	N	Internal storage space	8 GB on-board with 4 GB availab
	Packing	Dimensions (W x D x H)	375 mm × 280 mm × 108 mm
	information	List	 TB6 LED multimedia player x Columned Wi-Fi omnidirection antenna x 2 One AC power cord x 1
	Characteristics		nading capacity, with maximum wic mum height of 1920 pixels.
	CO: 1/10.	 Support 2-primary 2-standby Ethernet port redundant mechanism. 	
		 Support dual-Wi-Fi, and features Wi-Fi AP and Wi-Fi Sta functions. 	
z och Co		Support Gigabit wired network.Support stereo audio output.	
Ctall		Support stereo audio outSupport HDMI Loop.	ıpuı.
Naze		Support HDMI input mod	de.
7		Support HDMI input full-	screen self-adaptive display.

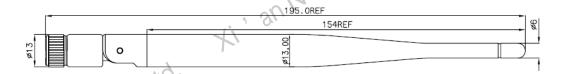
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TB6 Specifications

- Support manual and timing switching between synchronous and asynchronous modes.
- 2-Way USB Host interface supports USB drive importing display.
- Onboard brightness sensor interface supports automatic and timing smart brightness adjustment.

Antenna



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Audio and Video Decoder Specification Audio and Video Decoder Specification "Tech Co., Ltd.

7.1 Image

7.1.1 Decoder

Туре	Codec		Supported Image Size	Container	Remarks				
JPEG	JFIF file format 1.02		·		Not Support Non-interleaved Scan				
					Software support SRGB JPEG				
					Software sup Adobe RGB				
BMP	ВМР		No Restriction	BMP	N/A				
GIF	GIF	1	No Restriction	GIF	N/A				
PNG	PNG		No Restriction	PNG to	N/A				
WEBP	WEBP		No Restriction	WEBP	N/A				
7.1.2 Encoder									
Type	Codec	Supp	orted Image Size Ma	ximum Data	File Format	Remarks			

7.1.2 Encoder

	Туре	Codec	Supported Image Size	Maximum Data Rate	File Format	Remarks	
	JPEG JPEG Baseline		96x32pixels~8176x8176pixles	90Mpixels/Second	JFIF file format 1.02	N/A	
Novast	iar Tec	Co., L					
Mon							

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7.2 Audio

7.2.1 Decoder

	Taurus Series Multimedia Players TB6 Specifications 7 Audio and Video Decoder Specifications										
	TB6 Specifications 7 Audio and Video Decoder Specifications 7.2 Audio 7.2.1 Decoder										
	Туре	Codec	Channel	Bit rate	Sampling rate	File Format	Remarks				
	MPEG	MPEG1/2/2.5 Audio Layer1/2/3	2	8kbps~320Kb ps, CBR and VBR	8KHZ~48 KHz	MP1, MP2, MP3	N/A				
	Windows Media Audio	WMA Version 4, 4.1, 7, 8, 9, wmapro	2	8kbps~320Kb ps	8KHZ~48 KHz	WMA	Non-support WMA Pro, lossless and MBR				
	WAV	MS-ADPCM, IMA-ADPCM, PCM	2) 11	N/A	8KHZ~48 KHz	WAV	Support 4bit MS-ADPCM, IMA-ADPCM				
	ogg	Q1~Q10	2	N/A	8KHZ~48 KHz	OGG, OGA	N/A				
1	FLAC	Compress Level 0~8	2	N/A	8KHZ~48 KHz	FLAC	N/A				
Lid.	AAC	ADIF, ATDS Header AAC-LC and AAC-HE, AAC-ELD	5.1	N/A	8KHZ~48 KHz	AAC, M4A	N/A	rTech			
	AMR	AMR-NB, AMR-WB	1017	AMR-NB 4.75~12.2kbp s@8kHz AMR-WB 6.60~23.85kb ps@16kHz	8KHZ, 16KHz	3GP	N/A				
	MIDI	MIDI Type 0 and 1, DLS version 1 and 2, XMF and Mobile XMF, RTTTL/RTX, OTA, iMelody	2 20 NO	N/A VaStar Tech	N/A	XMF, MXMF, RTTTL, RTX, OTA, IMY	N/A				

7.2.2 Encoder

Novasi	Туре	Codec	Channel	Bit rate	Sampling rate	Container	Remarks
	AMR	AMR-NB, AMR-WB	2	4.75kbps~12.2Kbps , CBR	8KHZ, 16KHZ	3GPP	N/A
	AAC	AAC-ADTS-LC	1	4.75kbps~60Kbps, CBR	8KHZ~44.1KH Z	AAC, 3GPP, Mpeg2TS	N/A
	www.r	iar Tech	CO. 16				

7.3 Video

7.3.1 Decoder

7	.3.1 [Decod	ler			- 0	Specifications
-	Туре	Codec	Supported Image Size	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	File Format	Remarks
	MPEG -1/2	MPEG -1/2	48x48pixels~192 0x1088pixels	30fps	80Mbps	DAT, MPG, VOB, TS	Support Field Coding
	MPEG -4	MPEG 4	48x48pixels~192 0x1088pixels	30fps (i	38.4Mbps	AVI, MKV, MP4, MOV, 3GP	Not support MS MPEG4 v1/v2/v3 Not support GMC
,	H.264/ AVC	H.264	48x48pixels~ 4096x2304pixels	T1&T2&TB1& TB2: 1080P@60fps Other models: 4K@25fps,10 80P@60fps	T1&T2&TB1& TB2: 57.2Mbps Other models: 100Mbps	AVI, MKV, MP4, MOV, 3GP, TS, FLV	Support Field Coding Support MBAFF
ı	MVC	H.264 MVC	48x48pixels~192 0x1088pixels	60fps	38.4Mbps	MKV, TS	Support Stereo High Profile only
	H.265/ HEVC	H.265/ HEVC	64x64pixels~409 6x2304pixels	T1&T2&TB1& TB2: 1080P@60fps Other models: 4K@60fps,10 80P@60fps	T1&T2&TB1& TB2: 57.2Mbps Other models: 100Mbps	MKV, MP4, MOV, TS	Support Main Profile Support Tile & Slice
(GOO GLE VP8	VP8	48x48pixels~192 0x1088pixels	30fps	38.4 Mbps	WEBM, MKV	N/A
ı	H.263	H.263	SQCIF(128x96), QCIF(176x144), CIF(352x288), 4CIF(704x576)	30fps Stall	38.4Mbps	3GP, MOV, MP4	Not support H.263+
١	VC-1	VC-1	48x48pixels~192 0x1088pixels	30fps	45Mbps	WMV, ASF, TS, MKV, AVI	N/A
(MOTI ON JPEG	MJPE .	48x48pixels~192 0x1088pixels	30fps	38.4Mbps	AVI	N/A

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7.3.2 Encoder

TB6 Specificat	tions			7 Audio and Video Decoder Specifications			
7.3.2 Enco	oder					Xi.	, 30,12
Туре	Codec	Supported Image Size	Maximum Frame Rate	Maximum Bit Rate (Ideal Case)	File Format	Remarks	
H.264/AVC	H.264	144x96pixels~19 20x1088pixels	30fps	20Mbps	MOV, 3GP	Not support MBAFF	
Google VP8	VP8	96x96pixels~192 0x1088pixels	30fps	10Mbps	WEBM	N/A	

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