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# Taurus Series Multimedia Players



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## **Change History**

Document Version	Release Date	Description
V1.6.7	2022-09-05	<ul> <li>Updated the specifications of synchronous playback.</li> </ul>
		Updated some pictures.
V1.6.6	2022-07-08	<ul> <li>Added the specifications of synchronous playback.</li> </ul>
		<ul> <li>Added GPS time synchronization.</li> </ul>
		Updated existing content.



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## 1 Overview

### 1.1 About this Document

The Taurus series multimedia players support synchronous playback across multiple displays in asynchronous mode. This document is intended to instruct on-site workers and technicians to complete configurations related to the synchronous playback function.

## 1.2 Requirements of Synchronous Playback

The following are required by synchronous playback:

• The player supports the synchronous playback function.

The Taurus series multimedia player, launched by NovaStar, perfectly supports the synchronous playback function, and uses advanced synchronous playback technology and scheduling technology to perform automatic calibration and synchronization during the playback of each media based on time.

• The synchronous playback function is enabled.

The Taurus can work with various software, and the user could enable the synchronous playback function through ViPlex Express, ViPlex Handy or VNNOX.

• Time of the Taurus is synchronized.

Playback scheduling is based on time, and therefore time synchronization must be ensured for synchronous playback. Taurus support NTP, RF and GPS time synchronization methods. Users can select a method as required

• The same playback plan without random transition or media must be sent to all the Taurus.

Playing plans sent to multiple Taurus must be the same without random transition or media.

## 1.3 Specifications of Synchronous Playback

Playback	Media Specifications			
Scenarios	T1-4G/TB1-4G/TB2-4G	Т3/Т6	T4H	T30/T50/T60
	TCC70/TCB300	TB3/TB4A/TB4/TB6/TB8		TB30/TB40/
				TB50/TB60
Multiple solution pages	1x 480p	1x 1080p	1x 1080p	1x 1080p

Table 1-1 Specifications of synchronous playback

## Notes

The product models in the same column employ the same platform. Do not use models of different platforms.



Requirements for media:

- Each solution page contains one media only.
- The media must be an image or video.
- Media properties must be the same.
- Media width and height cannot exceed their limits. (480p: 720×480; 1080p: 1920×1080)

## 1.4 Required Configuration Tools

Table 1-2 Required configuration tools

Name	Description	Access Address
ViPlex Handy	Screen management software for Android phones and iPhones.	https://www.vnnox.com/download?l=er
ViPlex Express	LAN-based screen management software for Windows.	0.
VNNOX	Content publishing platform, which is a web application.	https://www.vnnox.com/?l=en



## **2** How to Implement NTP Synchronization

### 2.1 NTP Time Synchronization on the LAN (Recommended)

#### 2.1.1 NTP Server Configuration

Configure the NTP server on the LAN and record the domain name or IP address.

The Personal Computer (PC) can be set as a NTP server by default. Refer to http://note.youdao.com/share/?id=2efee9a613935113fa0f9a874b89047f&type=note#/ for details.

#### 2.1.2 Taurus Configuration

Taurus can be configured by using ViPlex Handy or ViPlex Express on the LAN.

#### 2.1.2.1 Using ViPlex Handy for Configuration

#### **Prerequisites**

The phone and the Taurus are connected to the same LAN.

#### **Operating Procedure**

- Step 1 Open ViPlex Handy and access the Local Control page.
- Step 2 On the Local Devices page, tap Connect next to the start device.

The default password is "123456".

- Step 3 Upon successful connection, tap the device name to access the Device Management page.
- Step 4 Select Advanced Settings to access the Advanced Settings page.
- Step 5 Select Advanced Functions and set the Synchronous Playback switch as C status.
- Step 6 Return to the Advanced Settings page.
- Step 7 Configure NTP time synchronization.
  - 1. Select Time Synchronization.
  - 2. Tap Synchronization Mode, select NTP and click OK.
  - 3. Tap NTP server.
  - 4. Tap , and enter the name and address of the NTP Server. The information must be consistent with those configured in 2.1.1 NTP Server Configuration.
  - 5. Tap **OK**.
- Step 8 Return to the Advanced Settings page. Tap 💷 at the top right.
- Step 9 Repeat Step 5 to Step 8 to configure other Taurus requiring synchronous playback.
- 2.1.2.2 Using ViPlex Express for Configuration

#### **Prerequisites**

The PC and the Taurus are connected to the same LAN.



#### **Operating Procedure**

- Step 1 Open ViPlex Express and access the **Terminal Control** page in the async mode.
- Step 2 Log in to the Taurus used for synchronous playback in order.
  - 1. Place the mouse over the terminal information and click **Connect** on the right.
  - 2. In the **Connect** dialog box, enter the password and click **OK**.

The default password is "123456". After successful login, 💛 turns 🤍.

Figure 2-1 Successful connection

ViPlex Express Async Mode	Terminals Solutions Advanced S	Image: Second state of the second
	Online + Not Log +	Offline 3 Terminal Name Q Refresh
Screen Name 🗢	Screen IP 🜲	Screen Size
🛑 Taurus-40002453 😲	172.18.12.100	1024*720
VPlayer_B3_1B9C.	172.18.12.173	400*400
VPlayer_W9A15TF2	172.18.12.61	512*512
Taurus-30005257	172.18.179.37	256*256

#### Step 3 Select Terminal Control.

- Step 4 Enable the synchronous playback function in batch.
  - 1. Select Playback Management.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Check Enable behind Synchronous Playback.
  - 4. In the pop-up dialog box, click **OK**.
- Step 5 Configure NTP time synchronization in batch.
  - 1. Select Time synchronization management.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Check Auto sync time with NTP server.
  - Click defined, and configure NTP server. The configuration information must be consistent with that configured in 2.1.1 NTP Server Configuration.
  - 5. Click Apply.



## 2.2 NTP Time Synchronization on the Public Network

On the public network, VNNOX is used to configure NTP time synchronization.

#### **Prerequisites**

The Taurus has been bound to VNNOX.

#### **Operating Procedure for VNNOX Standard**

- Step 1 Visit https://www.vnnox.com/?l=en and log in to VNNOX Standard.
- Step 2 Choose Player Control.
- Step 3 Enable the synchronous playback function in batch.
  - 1. Choose Synchronous Playback.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Set the **Synchronous Playback** switch as **C** status.
  - 4. Click Apply.
- Step 4 Configure NTP time synchronization in batch.
  - 1. Choose Time Synchronization.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.

3. Select NTP as the time synchronization mode and choose an NTP server from the drop-down list.

If an NTP server needs to be added, you can click of to configure it.

::: Play	yer Control	NOX   Standard / Time Synchronization	Workspace Play	rs Solutions Content	Media Approval	Player Control	Logs	🕸 System Management	S 4	🤮 renpan 🤟	
Provide State	yer Centrel	I Teel Spekhousakko     Inter sands keywold     Co     Paper Hane 2     Brane 4002033     Brane 4002033     Brane 4002033     Monai and Eff one spekhousakko     Vitager, 20433572     Manual and Eff one spekhousakko	betropped to reac betropped to reac betropped in a reaction of the second to reaction of the second to reaction of the sec	▼Hite by Group           Type           Appendencing player           Synchronous player           Synchronous player           Appendencing player           Synchronous player           Appendencing player           Synchronous player           Appendencing player	Tran Specie	n Richer Dohne Treez Zowe meinen Product Treez Zowe Mocher Noche	EXT-0000/444.59kmplut 2022-01-01 13:033 [JTC-0000/446.59kmplut Moral RND S G OS Rear Resolution is lated as the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the fact of the county united Rear Resolution is lated as the fact of the f	ed there zone, NTP time spectroscatation is based on the values or proferorization is based on the OS satisfies.	ed server and time	z 2010, RF time	Commet Ur O
					Copyri	ght @ 2007-2022 Xi'an Nov	visitar Tech Co., Ltd. All rights reserved.				

4. Click Apply.

#### **Operating Procedure for VNNOX AD**

- Step 1 Visit https://www.vnnox.com/?I=en and log in to VNNOX AD.
- Step 2 Enable the synchronous playback function in batch.
  - 1. Choose B > Players Management > Players.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Choose Real-time control > Synchronous playback > On.



Step 3 Configure NTP time synchronization in batch.

- 1. Choose 🔠 > Players Management > Time synchronization.
- 2. If you want to customize an NTP server, choose the **NTP server configuration** tab, click **Add**, and configure the NTP server. Otherwise, skip this step.

ilter <	New Attribute Delete				
Remember filter criteria Workgroup	Name	Q			10 Items/Page << 1
Time Synchronization Mode	Sequence Name 🛊	Workgroups	Time Synchronization Mode 💠	Players	Last Modified 🖕
	🔲 1 duishi	Workgroups : System workgroup	RF	The time base equipment: The number of players: 0	2022-06-24 18:06:52
	1 record(s) in total Page 1/1				10 Items/Page << 1

- 3. On the Time Synchronization tab page, click New.
- Enter a time synchronization task name, select NTP as the time synchronization mode, and then click Next.
- 5. Select an NTP server and click OK.
- 6. Click Add in the Players tab of the time synchronization task attribute page.
- 7. Select all the Taurus used for synchronous playback from the terminal list and click OK.
- 8. Click Save or Save&Close.

## **3** How to Implement RF Synchronization

RF time synchronization requires users to set one Taurus in RF network as the master device and others as slave devices. The master device is used as the time reference only and do not load a screen. The slave devices are used to load screens. The time of the slave devices is synchronized with the time of the master device.

## 3.1 RF Module Installation

The RF modules of E32-433T30D-NW model should be purchased before the project implementation.

Figure 3-1 RF mdule



One RF module is installed with one Taurus. The T60 is used as an example and the installation position of the RF module is shown in Figure 3-2.

Figure 3-2 Installation position of RF module



The antenna connection of RF module is shown in Figure 3-3 and Figure 3-4. Either of the connections can be chosen.



#### Figure 3-3 Antenna connection 1



Figure 3-4 Antenna connection 2



### 3.2 Taurus Configuration

On the LAN, ViPlex Handy or ViPlex Express can be used to configure RF time synchronization.

On the public network, VNNOX can be used to configure RF time synchronization.

3.2.1 Using ViPlex Handy for Configuration

#### **Prerequisites**

The phone and the Taurus are connected to the same LAN.

#### **Operating Procedure**

- Step 1 Open ViPlex Handy, and access the Local Control page.
- Step 2 In the Local Devices list, tap Connect correspond to the starting device. Enter the password and click OK. The default password is "123456".
- Step 3 After successful connection, tap the device name to enter the **Device Management** page.
- Step 4 Choose Advanced Settings to enter the Advanced Settings page.
- Step 5 Choose Advanced Functions, and set the Synchronous Playback switch as C status.

The synchronous playback function of the master device do not need to be enabled.

- Step 6 Return to the Advanced Settings page.
- Step 7 Configure RF time synchronization.
  - 1. Select Time Synchronization.
  - 2. Tap Synchronization Mode, select RF, and tap OK.
  - 3. Set time synchronization parameters.
    - Group ID: Use the same group ID for the Taurus requiring enabling the time synchronization function to assign the Taurus products to the same RF network.



- Device Type: Set the current Taurus as the master device or slave device. A group contains only one master device. The time of the slave devices is synchronized with the time of the master device through RF network.
- Auto Time Synchronization: To synchronize the time of the master device with the time NTP server, enable automatic time synchronization and set the NTP server.
- 4. Tap **Done** after the configuration.
- Step 8 Return to the Advanced Settings page, and tap in the top right. Select other device in the list, and tap OK.
- Step 9 Repeat the Step 5 to Step 8 to configure other Taurus requiring synchronous playback till all Taurus have been configured.
- 3.2.2 Using ViPlex Express for Configuration

#### **Prerequisites**

The PC and the Taurus are connected to the same LAN.

#### **Operating Procedure**

- Step 1 Open ViPlex Express and access the Terminal Control page in async mode.
- Step 2 Log in to the Taurus used for synchronous playback in order.
  - 1. Place the mouse over the terminal information, and click **Connect** on the right.
  - 2. In the **Connect** dialog box, enter the password, and click **OK**.

The default password is "123456". After successful login, 🧶 turns 🤍

	V	ViPlex Express Async Mode	inals Solutions Advanced Sci	Reedback (SAPP) & = □ × ⇒ Solutions Terminal Control Vnnox
		Total = Online	+ - Not Log +	Offline 3 Terminal Name Q Refresh
		Screen Name 🜲	Screen IP 🜲	Screen Size
		Taurus-40002453 🈲	172.18.12.100	1024*720
N		VPlayer_B3_1B9C.	172.18.12.173	400*400
	•	VPlayer_W9A15TF2	172.18.12.61	512*512
		Taurus-30005257	172.18.179.37	256*256

#### Figure 3-5 Successful login

#### Step 3 Select Terminal Control.



- Step 4 Enable the synchronous playback function in batch.
  - 1. Select Playback Management.
  - 2. Select all the slave devices from the terminal list.

The synchronous playback function of the master device do not need to be enabled.

- 3. Check Enable behind Synchronous Playback.
- 4. In the pop-up dialog box, click OK.
- Step 5 Configure RF time synchronization.
  - 1. Select RF Management.
  - 2. Select all the slave devices from the terminal list.
  - 3. Set the **RF Synchronous** switch as **C** status.
  - 4. Select the Master device, set the group ID, and select Time synchronization.

The time of the slave devices is synchronized with the time of the master device through RF network.

- 5. Click Apply.
- 6. Select all the slave devices from the terminal list.
- 7. Set the Synchronous Playback switch as 🚺 status.
- 8. Set the group ID, and select Time synchronization.

Use the same organization ID for the Taurus requiring enabling the time synchronization function to assign the Taurus products to the same RF network.

9. Click Apply.

#### 3.2.3 Using VNNOX for Configuration

#### **Prerequisites**

The Taurus has been bound to VNNOX

#### **Operating Procedure for VNNOX Standard**

- Step 1 Visit https://www.vnnox.com/?l=en and log in to VNNOX Standard.
- Step 2 Choose Player Control.
- Step 3 Enable the synchronous playback function in batch.
  - 1. Choose Synchronous Playback.
  - 2. Select all the slave devices from the terminal list.

The synchronous playback function of the master device do not need to be enabled.

- 3. Set the **Synchronous Playback** switch as **Set** status.
- 4. Click Apply.
- Step 4 Configure RF time synchronization.
  - 1. Choose Time Synchronization.
  - 2. Select the master device from the terminal list.
  - 3. Select **RF** as the time synchronization mode.



	<b>⊽</b> Filter by Group	Current Player Status Refresh	
Player Name 🖕	Туре	Time Zone	UTC - 08.000Asia/Shareghai
Taurus-40002453	Asynchronous player	Time	2022-07-18 16:28:58
Taurus-60004953     Manual and RF time synchronization are not supported	Synchronous player	Time Synchronization Readback	
VPlayer_GY441106     Manual and RF time synchronization are not supported	Synchronous pløyer	Time Zone	(UTC + 08:00)Acau-Shanghai
VPlayer_W9A15TF2     Manual and RF time synchronization are not supported	Synchronous player	WOSE	Manual line spectromization is based on the time of the currently selected time zone, NTP time synchronization is based on the selected server and time zone, NTP time synchronization is based on the time benchmark equipment, and GPS time synchronization is based on the time benchmark equipment, and GPS time synchronization is based on the time benchmark equipment, and GPS time synchronization is based on the time benchmark equipment, and GPS time synchronization is based on the GPS satellite.
4 record(s)	in total < 1 > 207 page V		Group ID Rease enter an integer which can combain up to 10 digits.
			Set as reference device

4. Set the Group ID, and select Set as reference device. Set the NTP server as required.

When NTP server is enabled, the time of the master device will be synchronized with the time of the NTP server. When NTP is disabled, the time of the master device will be synchronized with the time of the selected time zone.

- 5. Click Apply.
- 6. Select all the slave devices from the terminal list.
- 7. Select RF of the time synchronization mode, and set the Group ID.

Use the same group ID for the Taurus requiring enabling the time synchronization function to assign the Taurus products to the same RF network.

8. Click Apply.

#### Operating procedures for VNNOX AD

- Step 1 Visit https://www.vnnox.com/?l=en and log in to VNNOX AD.
- Step 2 Enable the synchronous playback function in batch.
  - 1. Choose B > Players Management > Players.
  - 2. Select all the slave devices from the terminal list.

The synchronous playback function of the master device do not need to be enabled.

#### 3. Choose Real-time control > Synchronous playback > On.

- Step 3 Configure RF time synchronization.
  - 1. Choose 🔠 > Players Management > Time Synchronization.
  - 2. Click New on the page of time synchronization tasks.
  - Enter the time synchronization task name, select RF as the type of the time synchronization task, and then click Next.
  - 4. Select a standard device for time synchronization, and then click **OK**.
  - 5. Click Add in the Players tab of the time synchronization task attribute page.
  - 6. Select all the slave devices from the terminal list and click OK.
  - 7. When NTP server time synchronization is required, select the **Configure** tab, set **NTP** to **Yes**, and select the NTP server. Otherwise, ignore this step.



8. Click Save or Save&Close.

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## 4 How to Implement GPS Synchronization

### 4.1 4G module and SIM Card Installation

The 4G module and the SIM card should be purchased before the project implementation. The model of 4G module is EC20 and the appearance is shown in Figure 4-1.

#### Figure 4-1 4G module



One 4G module and one SIM card is installed with one Taurus. Take the Taurus of model T60 as an example. The installation positions of 4G module and the SIM card slot are shown in Figure 4-2 and Figure 4-3, respectively. The installation methods of 4G modules and SIM cards vary according to product models. For details, see *Taurus Series Multimedia Players 4G & 5G Module Installing and using guide*.

Figure 4-2 Installation position of 4G module



Figure 4-3 SIM card slot



## 4.2 Taurus Configuration

On the LAN, ViPlex Express is used to configure GPS time synchronization. On the public network, VNNOX Standard is used to configure GPS time synchronization.

#### 4.2.1 Using ViPlex Express for Configuration

#### **Prerequisites**

The PC and the Taurus are connected to the same LAN.

#### **Operating Procedure**

- Step 1 Open ViPlex Express and access the Terminal Control page in the async mode.
- Step 2 Log in to the Taurus used for synchronous playback in order.
  - 1. Place the mouse over the terminal information, and click **Connect** on the right.
  - 2. In the **Connect** dialog box, enter the password, and click **OK**.

The default password is "123456". After successful login, 🧶 turns 🤍



#### Figure 4-4 Successful login

	ViPlex Express		R Feedback (응 APP) 段 ←	×
2	Async Mode	minals Solutions Advanced Solu	tions Terminal Control	Vnnox
Ē	Total = Online	+ 🗾 Not Log +	Offline 3 Terminal Name Q	Refresh •
	Screen Name 🜩	Screen IP 🜲	Screen Size	
•	Taurus-40002453 リ	172.18.12.100	1024*720	
	VPlayer_B3_1B9C.	172.18.12.173	400*400	
•	VPlayer_W9A15TF2	172.18.12.61	512*512	
	Taurus-30005257	172.18.179.37	256*256	
				5

#### Step 3 Select Terminal Control.

- Step 4 Enable the synchronous playback function in batch.
  - 1. Select Playback Management.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Check Enable behind Synchronous Playing.
  - 4. In the pop-up dialog box, click OK.
- Step 5 Configure GPS time synchronization in batch.
  - 1. Select Time synchronization management.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Check Auto sync time, and select GPS time synchronization.
  - 4. Click Apply.
- 4.2.2 Using VNNOX for Configuration

#### **Prerequisites**

The Taurus has been bound to VNNOX Standard.

#### **Operating Procedure**

- Step 1 Visit https://www.vnnox.com/?l=en and log in to VNNOX Standard.
- Step 2 Choose Player Control.
- Step 3 Enable the synchronous playback function in batch.
  - 1. Choose Synchronous Playback.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.



- 3. Set the **Synchronous Playback** switch as **C** status.
- 4. Click Apply.
- Step 4 Configure GPS time synchronization.
  - 1. Choose Time Synchronization.
  - 2. Select all the Taurus used for synchronous playback from the terminal list.
  - 3. Select **GPS** as the time synchronization mode.

ontrol	/ Time Synchronization			
	enter search keywords Q	₹ Filter by Group	Current Player Status Refresh	ATT - MANNair Barachai
	Player Name 🖕	Туре	Time	(0.1.4-0000/jeau/sharghar)     2022-07-10 14:10.04
2	Taurus-40002453	Asynchronous player		
	Teurus-60004953     Manual and RF time synchronization are not supported	Synchronous player	Time Synchronization Readback	
	<ul> <li>VPlayer_GY441106 Manual and RF time synchronization are not supported</li> </ul>	Synchronous player	Time Zone	r (UTC+0803/Asia/Sharghai
	VPlayer_W9A15TF2     Manual and RF time synchronization are not supported	Synchronous player	Mode	Manual NTP of 6 0.675     Manual Time synchronization is based on the time of the currently selected time zone, NTP time synchronization is based on the sencentary selected time zone, NTP time synchronization is based on the senchmark explorment, and GPS time synchronization is based on the UPS satellite.
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CI	lick <b>Apply.</b>			
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