

ViPlex Handy

LAN-Based Screen Management Software

V1.4.0 NS120100764



User Manual

Change History

Android

Version	Release Date	Description
V1.4.0	2019-08-12	Added 4 functions: <ul style="list-style-type: none"> • Mechanism for preventing brute-force login attacks • Weak password verification • Screen and AP password rules • Support for terminal functions
V1.3.6	2019-05-24	Added 1 function: Effects of scrolling text from left and top Fixed 1 problem: After you change terminal password and log into the terminal successfully in ViPlex Express, the prompt for incorrect passwords is displayed in English when you log in to the terminal with ViPlex Handy and the system language of ViPlex Handy is not English.
V1.3.4	2019-01-16	Added 1 function: Support for Spanish Fixed 1 problem: Publishing of a large solution fails occasionally.
V1.3.3	2018-12-06	Added 2 functions: <ul style="list-style-type: none"> • Support for TB4 • Settings of playback effect for images Improved 1 function: UI languages Fixed 1 problem: Incorrect contents are displayed and the application quits unexpectedly when the UI language is English or Japanese.
V1.3.2	2018-11-09	<ul style="list-style-type: none"> • Brightness values are compatible with terminals of different versions. Only integers and decimals with a scale of 1 can be displayed. • Ambient brightness values in the auto brightness adjustment parameter cannot be the same. • In auto brightness adjustment and scheduled brightness adjustment, the validity range can be

Version	Release Date	Description
		<p>set and the Never, Every month and Every year repeat options are available.</p> <ul style="list-style-type: none"> • The Screen Information page is compatible with terminals of different versions.
V1.3.1	2018-10-12	<ul style="list-style-type: none"> • Screen Configuration supports 4 Ethernet ports and the range of the resolution width and height supported by receiving card is 16 pixels to 2047 pixels. • Supports editing of Screen Name and Screen Address in Screen Information. • NovaiCare supports display of the connection status of the terminal and server. • System Settings supports mode switching (between user mode and screen configuration mode). • Allows users to rename screen names on the screen list. • The multi-screen mosaic function was moved from the main menu to the top right of the Screen List page. (Only available in screen configuration mode) • Under Screens, Screen Configuration, the submenu of Screen Settings, was changed to a menu of the same level as Screen Settings. (Only available in screen configuration mode)
V1.2.8	2018-08-17	Fixed the problem that the parameters sent to Taurus are wrong while setting RF time synchronization.
V1.2.7	2018-07-31	Multi-screen mosaic can be quickly configured.
V1.2.6	2018-07-12	None
V1.2.5	2018-06-29	Fixed the problem that the software exits abnormally when the media library loads a large number of images.
V1.2.4	2018-06-19	Images can be cropped while you add them.
V1.2.3	2018-05-23	<ul style="list-style-type: none"> • Problems were fixed. • Some functions were improved.
V1.2.2	2018-05-04	Fixed the problem that the software exits abnormally while publishing solutions.
V1.2.1	2018-04-28	<ul style="list-style-type: none"> • The display of screen on/off status was improved. • The maximum number of media on the display window was changed to 30.
V1.2.0	2018-01-22	<ul style="list-style-type: none"> • The UI was optimized. • The quick subsection function of the brightness

Version	Release Date	Description
		parameters was modified. <ul style="list-style-type: none"> • Verification rules for the Taurus password were modified. • The solution editing function was modified.
V1.1.0	2018-01-03	<ul style="list-style-type: none"> • Screen Information was added in Screen Management. • In Playback Management, vnox was modified to Cloud Solution and program was modified to LAN Solution. • In Remote Management, Player binding was modified to VNNOX and Remote Monitor was modified to NovaiCare. • In Monitoring > System Parameter, CPU temperature was removed. • Under Screen Management, the Screen Configuration function was removed.
V1.0.0	2017-07-20	First release

iOS

Version	Release Date	Description
V1.4.0	2019-08-12	Added 4 functions: <ul style="list-style-type: none"> • Mechanism for preventing brute-force login attacks • Weak password verification • Screen and AP password rules • Support for terminal functions
V1.3.6	2019-05-24	Added 1 function: Effects of scrolling text from left and top
V1.3.5	2019-01-29	Fixed 1 problem: Readback of the solution list in playback management failed occasionally.
V1.3.4	2019-01-16	Added 1 function: Support for Spanish Fixed 1 problem: Publishing of a large solution fails occasionally.
V1.3.3	2018-12-06	Added 2 functions: <ul style="list-style-type: none"> • Support for TB4 • Settings of playback effect for images Improved 1 function: UI languages Fixed 1 problem:

Version	Release Date	Description
		When the application works with terminals of V1.3.0 or earlier, manual brightness adjustment does not take effect.
V1.3.2	2018-11-09	<ul style="list-style-type: none"> Brightness values are compatible with terminals of different versions. Only integers and decimals with a scale of 1 can be displayed. Ambient brightness values in the auto brightness adjustment parameter cannot be the same. In auto brightness adjustment and scheduled brightness adjustment, the validity range can be set and the Never, Every month and Every year repeat options are available. The Screen Information page is compatible with terminals of different versions.
V1.3.1	2018-10-12	<ul style="list-style-type: none"> Screen Configuration supports 4 Ethernet ports and the range of the resolution width and height supported by receiving card is 16 pixels to 2047 pixels. Supports editing of Screen Name and Screen Address in Screen Information. NovaiCare supports display of the connection status of the terminal and server. System Settings supports mode switching (between user mode and screen configuration mode). Allows users to rename screen names on the screen list. A camera setting reminder was added during solution editing. The multi-screen mosaic function was moved from the main menu to the top right of the Screen List page. (Only available in screen configuration mode) Under Screens, Screen Configuration, the submenu of Screen Settings, was changed to a menu of the same level as Screen Settings. (Only available in screen configuration mode)
V1.2.8	2018-08-17	Fixed the problem that the parameters sent to Taurus are wrong while setting RF time synchronization.
V1.2.7	2018-07-31	Multi-screen mosaic can be quickly configured.
V1.2.6	2018-07-12	Supports iPad.
V1.2.5	2018-06-29	Fixed the problem that the software exits abnormally when the media library loads a large number of images.
V1.2.4	2018-06-19	Images can be cropped while you add them.

Version	Release Date	Description
V1.2.3	2018-05-23	<ul style="list-style-type: none"> • Problems were fixed. • Some functions were improved.
V1.2.2	2018-05-04	Fixed the problem that the software exits abnormally while publishing solutions.
V1.2.1	2018-04-28	<ul style="list-style-type: none"> • The display of screen on/off status was improved. • The maximum number of media on the display window was changed to 30.
V1.2.0	2018-01-22	<ul style="list-style-type: none"> • The UI was optimized. • The quick subsection function of the brightness parameters was modified. • Verification rules for the Taurus password were modified. • The solution editing function was modified.
V1.1.0	2018-01-03	<ul style="list-style-type: none"> • Text, Analog Clock and Digital Clock were added in Solution List. • In Playback Management, vnox was modified to Cloud Solution and program was modified to LAN Solution. • In Remote Management, Player Binding was modified to VNNOX and Remote Monitor was modified to NovaiCare. • In Monitoring > System Parameter, CPU Temperature was removed. • In Screen Management, the Screen configuration function was removed. • In Settings, Message was removed.
V1.0.0	2017-07-20	First release

Contents

Change History	i
Contents	vi
1 Introduction	1
2 Installation	2
3 Terminal Login	3
4 Function Description	5
4.1 Screen Management	5
4.2 Multi-Screen Mosaic	9
4.3 Solution List	11
4.4 Settings	12
4.5 Media	12
5 FAQ	13
5.1 Viewing the Version of ViPlex Handy	13
5.2 Viewing the Version of the Taurus.....	13
5.3 Upgrading the Version of the Taurus.....	13

1 Introduction

ViPlex Handy is a software for managing screens via LAN. The software can be used for the management of the Taurus series players. ViPlex Handy supports Android and iOS.

Advantages of ViPlex Handy:

- Friendly user interface. UI design takes full account of the habits of users.
- Easy to use. The terminal can be wirelessly connected and easily accessed.
- Synchronous playback, which is capable of playing the same content on different screens synchronously.
- Smart brightness adjustment, which is capable of setting automatic and timed brightness adjustment.
- Dual WiFi functionality, which is capable of setting WiFi AP mode and WiFi Sta mode.
- 4G connection, which is capable of setting mobile data network of the terminal with 4G module.
- Dual-mode (synchronous and asynchronous), which is capable of setting video output mode.
- Adaptive display, which is capable of displaying pictures automatically according to screen size.
- Terminal binding: Allows multiple terminals to be bound to VNNOX for unified management.

2 Installation

Downloading Installation Package



Installing Software

Installation of ViPlex Handy is the same as other applications.

3 Terminal Login

Before You Begin



- Obtain the SSID and password of Wi-Fi AP of the Taurus.
The default SSID is "AP+*Last 8 digits of SN*" and the default password is "12345678".
- Obtain the password of the "admin" user for logging in to the Taurus.
The default password of the "admin" user is "123456".

Operating Procedure

Step 1 Connect to the Wi-Fi AP of the Taurus series product.


Step 2 Open ViPlex Handy.

ViPlex Handy automatically detects the Taurus and refresh the screen list. Users can also swipe down to refresh the screen list.

- : Denotes that the Taurus is online and users can log in to it. Go to [Step 3](#).
- : Denotes that the Taurus is offline and users cannot log in to it.

Step 3 Tap **Connect** next to the screen name.


Step 4 Enter the user name and password and tap **Log In**.

After successful login,  is displayed. ViPlex Handy automatically saves the account information.

Related Operation

After successful login, if the password is verified as a weak password, a prompt will be displayed, reminding you to change the password. You can perform the following operations:

- Tap **Ignore Once** if you do not want to change the password.
- Tap **Change Password** to change the screen password and AP password.

After the system saves the user name and password, you can tap  to perform the following operations while logging in to the terminal.

- **Connect**: Tap to log in to the terminal.
- **Forget Password**: Delete the user name and password of current screen.
- **Delete**: Delete current screen from the screen list.

After logging in to the terminal, you can tap  to perform the following operations.

- **Disconnect:** Log out of Taurus.
- **Rename:** Set screen name.

XI'AN NOVASTAR TECH CO.,LTD

4 Function Description



4.1 Screen Management

Menu	Sub-Menu	Description
Quick Control	Sync Time	Setting UTC time.
	Adjust Volume	Setting volume.
	Color Temperature	Setting color temperature.
Screen Configuration (available in screen configuration mode)	-	<p>Setting the information of receiving cards used to load the screen.</p> <p>Parameter meanings:</p> <ul style="list-style-type: none"> • Ethernet Port Quantity: Number of Ethernet ports used to load the screen • RV Card Size: Resolution of a single receiving card • RV Card Quantity: Number of receiving cards used to load the screen • Offset coordinate: Image offset • Cabinet Connection: Connection order of receiving cards
Screen Settings	Screen control status	<p>Setting the rules for manual and timed screen on or off.</p> <ul style="list-style-type: none"> • Manual: Switching on or off a screen manually. • Timed: Switching on or off a screen automatically as required.
	Brightness Control	<p>Adjusting brightness manually and setting the rules for automatic and timed brightness adjustment.</p> <ul style="list-style-type: none"> • Manual: Adjusting brightness manually. • Smart: Setting the rules for automatic and scheduled brightness adjustment. <p>In smart brightness adjustment mode, if Auto Brightness Adjustment is selected, you need to set Auto Brightness Adjustment Parameters, that is, screen brightness will be adjusted according to the auto brightness</p>

Menu	Sub-Menu	Description
		<p>adjustment parameters during the scheduled enabling time.</p> <p>Select Timed Brightness Adjustment and set the brightness to a fixed value. Screen brightness will be set to the fixed value during the scheduled opening time.</p> <p>Auto Brightness Adjustment Parameters: Divide the environment brightness range from the maximum value to the minimum value into several equal intervals and set the relevant screen brightness of each interval. Select Auto Brightness Adjustment and the screen brightness will be adjusted automatically according to current ambient brightness.</p>
	RV Card Configuration (Android only)	<p>Sending receiving card configuration file with the extension .rcfgx to the Taurus.</p> <p>Save configuration file to mobile phone before sending the file. ViPlex Handy can automatically identify the configuration file and display it on RV Card Configuration page.</p>
	Timed Restart	Setting the rules for timed screen reboot.
Advanced Settings	Change Password	<p>Changing the login password of the Taurus.</p> <p>The default user name is "admin" and the default password is "123456". We recommend you change the default password after first login.</p>
	Upgrade (Android only)	<p>Upgrading software of the Taurus, including terminal software and terminal system. The terminal software includes terminal application software and FPGA program.</p> <p>Save software upgrade package to mobile phone before upgrading the software. ViPlex Handy can automatically identify the software upgrade package and display it on the Upgrade page.</p>
	Time Synchronization	<p>Setting the rules for time synchronization.</p> <p>To enable synchronous playing on different Taurus units, keeping the time in sync is one of the basic conditions.</p> <p>Users can choose following ways to sync time according to actual situation:</p> <ul style="list-style-type: none"> • NTP: After accessing Taurus to the Internet, sync time according to the NTP server. • RF: Sync the time of Taurus via synchronization module. Set the current Taurus as the master device and enable Auto Time Synchronization to sync the time of the master device with the NTP

Menu	Sub-Menu	Description
		<p>server. If the current Taurus is set as the slave device, the time of the slave device will be synchronized with the master device via RF network.</p> <p>Time parameters of RF:</p> <ul style="list-style-type: none"> • Group ID: It is required to enter the same group ID for the Taurus units requiring time synchronization, namely, assign these Taurus units to the same group. • Device type: Set current Taurus unit as master or slave device. Sync the time of slave device with master device via RF network. • Auto Time Synchronization: To sync the time of master device via NTP server, it is required to enable Auto Time Synchronization and set a NTP server. • NTP server: The time of master device will be synchronized based on NTP server.
	Advanced Function	<ul style="list-style-type: none"> • Synchronous Playing: Turning on or off the Synchronous Playing function. When the function is turned on, synchronous displays of different screens can be enabled as long as such screens have the synchronous time and are playing the same contents. • Resolution: Setting the resolution of Taurus. • Restart: Rebooting Taurus. • Clear All Media: Clearing all the media stored in the Taurus. • Restore Factory Settings: Resetting the Taurus to factory settings.
Network Settings	Wireless Network Settings	Turning on or off WiFi Sta mode of the Taurus. When the Taurus is connected via external router, please turn on WiFi Sta mode, tap the Wi-Fi name of the external router and then enter the password of the Wi-Fi.
	Wired Network Settings	Turning on or off DHCP. When the Taurus is connected via Ethernet cable, please turn off DHCP and set the static IP address and other relevant information.
	Mobile Data Settings	Turning on or off mobile data network. If the Taurus has 4G module, please turn on mobile network when the Taurus is connected via mobile data. Then information of the carrier is displayed on the page.
Monitoring	Ambient Brightness	Displaying ambient brightness. This is available only when the light sensor is connected to the Taurus series products.

Menu	Sub-Menu	Description
	Temperature	Displaying receiving card temperature.
	Playback Screenshot	Capturing current screen.
	System Parameter	Displaying CPU usage, available storage and external storage.
	Time Parameter	Displaying the time zone and time of the Taurus.
Video Control	-	<p>Controlling video input mode, video source, zoom and offset position. (Only the T6/TB4/TB6/TB8 Taurus models are supported.)</p> <p>Meanings of the values of Mode:</p> <ul style="list-style-type: none"> • Manual: Switch instantly between the synchronous mode and asynchronous mode. • Timed: Switch between the synchronous mode and asynchronous mode as scheduled. • HDMI preferred: HDMI is preferred for playing videos in synchronous mode. <p>Full screen is available for external HDMI input signal.</p> <p>Meanings of the values of Full screen:</p> <ul style="list-style-type: none"> • On: Images are scaled and displayed to fit the screen size automatically. • Off: Pictures are displayed according to the original size. <p>Prompt: Offset range cannot be greater than the screen width.</p>
Playback Management	-	<p>Reading back the solution played on the Taurus, playing or stopping, and deleting the solution.</p> <ul style="list-style-type: none"> • Solutions under Cloud Solution are sent to the Taurus from VNNOX. • Solutions under LAN Solution are sent to the Taurus from ViPlex Handy (iOS), ViPlex Handy (Android) and ViPlex Express.
Remote Management	VNNOX	<p>Binding asynchronous players in VNNOX to terminals. After they are bound, ViPlex Handy can download solutions from VNNOX to terminals.</p> <p>The values of Server address, Authentication user name and Authentication password must be the same as the values in VNNOX.</p> <p>Query methods:</p>

Menu	Sub-Menu	Description
		<p>1. Visit www.vnnox.com and log in to VNNOX Standard or VNNOX AD.</p> <p>2. Enter player authentication information page to view the server address, authentication user name and password.</p> <p>VNNOX Standard: Choose  > Personal Settings.</p> <p>VNNOX AD: Choose “ > Organization Management > System Management and click the Player Authentication tab.</p> <p>An asynchronous player can be bound to only one terminal. Users can create players or unbind players. For detailed operation, see VNNOX product documentation.</p>
	NovaiCare	<p>Registering screens to VNNOX.</p> <p>Parameter meanings:</p> <ul style="list-style-type: none"> • Server: Displays the server of cloud monitoring service. • Owner: Displays the account name for logging into VNNOX. • Status: Displays the status of connection with cloud monitoring service.
Screen Information	-	Setting the screen name and registration address, and displaying the software version and subprogram version information.

4.2 Multi-Screen Mosaic

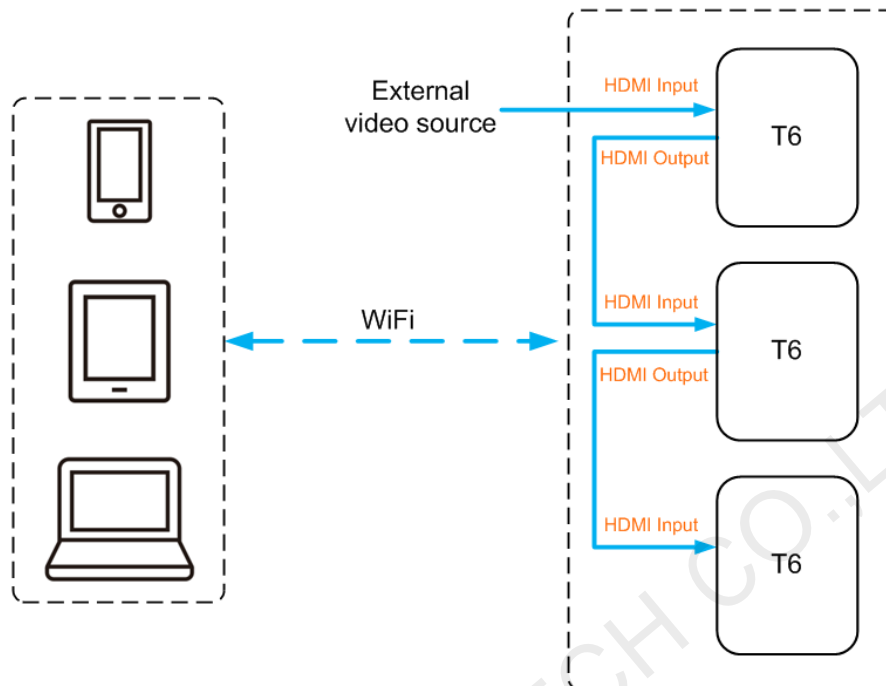
Used for image mosaic by splicing multiple screens with the same specifications. Screens can only be spliced horizontally from the left to right.

This function is available in screen configuration mode.

Before You Begin

- Connect hardware devices. For example, as shown in [Figure 4-1](#), three T6 units are used for mosaic and the external video source is used.
- Log in to the corresponding terminals.

Figure 4-1 Terminal connection example




Setting Mosaic

Step 1 Choose **Screens**.

Step 2 Tap  at the top right.

Step 3 Enter a resolution and tap **Query** to search for screens.

The online terminals and offline terminals with mosaic order that match your query will be displayed.

Step 4 (Optional) Tap  to sort the terminals with mosaic order by ascending mosaic order.

Step 5 Tap **Mosaic**.

Step 6 Set the number of screens used for mosaic.

The number of screens cannot be greater than the ceiling integer of the value of "video source width / loading capacity width of the terminal".

The loading capacity width of the terminal is up to 4096 pixels.

Step 7 Set mosaic orders.


The system sets the horizontal offset of image automatically according to the mosaic order and the loading capacity width of the terminal.

Offset = (*Mosaic order* - 1) × Loading capacity width of the terminal

For example, if the loading capacity width of the terminal is 500 px, set the offset of the second screen to 500 px and the third screen to 1000 px.

Step 8 Set the video source of the first screen.

Canceling Mosaic

Tap  to delete the mosaic orders of screens. The system will set the value of **X** to "0".

4.3 Solution List

Used for editing and publishing solutions and managing custom solution templates.

Note:

To edit, publish and play solutions normally, the following settings on iOS 11.0 or later are required to be done in advance.

- Photo setting: **Settings > Photos > Download and Keep Originals**
- Camera setting: **Settings > Camera > Formats > Most Compatible**

ViPlex Handy supports media types in [Table 4-1](#).

Table 4-1 Media types

Menu name	Format
Image	<p>Adding pictures, and setting the display effects, play duration and transition of the images. When you add images, you can crop them.</p> <p>There are two types of effects: entrance effect and playback effect. Currently, only one of them can be set.</p> <p>Images can be added through the following two methods:</p> <ul style="list-style-type: none"> • Add pictures from the local media library. • Add pictures through the camera. (Android only) <p>Supported formats: JPEG, BMP, GIF, PNG, WEBP.</p>
Video	<p>Adding videos, and setting the display effects of the videos.</p> <p>Supported formats: MPEG-1/2, MPEG-4, H.264/AVC, MVC, H.265/HEVC, Google VP8, H.263, VC-1, Motion JPEG</p> <p>For Android version, also supports adding images of GIF format.</p> <p>For Android, GIF images also can be added.</p>
GIF (iOS only)	Adding images of GIF format.
Text	Adding single-line or multi-line texts, and setting the text properties, play duration and transition of the texts.
Analog clock	Adding analog clocks, and setting the styles, texts and play duration of the analog clocks.
Weather (Android only)	Adding weather widgets, and setting the display content, temperature unit and animation effects, etc.
Digital clock	Adding digital clocks, and setting the styles and play duration of the digital clocks.

4.4 Settings

Menu	Description
Help	Displaying software version, copyright information, email address and providing the link of User Manual.
Language	Setting software language.
Mode	Setting the mode of the software which defaults to user mode. <ul style="list-style-type: none">• User Mode: Mainly designed for common users.• Screen Configuration Mode: Mainly designed for technical support engineers. Compared to user mode, the Screen Configuration and Mosaic functions are added in screen configuration mode which requires professional knowledge and experience.

4.5 Media

Used for displaying local media on a mobile phone. When you edit a solution, files in the media library can be added to the solution.

For iOS 11.0 or later, you have to set the camera to **Most Compatible**, otherwise media cannot be played normally after solutions are published.

5 FAQ

5.1 Viewing the Version of ViPlex Handy

Question

How to view the version of the ViPlex Handy?

Answer

- Step 1 Choose **Settings** > **Help**.
- Step 2 View the version of the ViPlex Handy.

5.2 Viewing the Version of the Taurus

Question

How to view the version of the Taurus?

Answer

- Step 1 Log in to the Taurus.
- Step 2 Tap the screen name and enter the **Screens** page.
- Step 3 Select **Screen Information**.
- Step 4 View the version information and sub-software version information of the Taurus.

5.3 Upgrading the Version of the Taurus

Question

How to upgrade the version of the Taurus?

Answer

Only Android supports software version upgrade.

- Step 1 Log in to the Taurus.
- Step 2 Tap the screen name and enter the **Screens** page.

Step 3 Choose **Advanced Settings > Upgrade**.

Step 4 Tap **Upgrade** next to the target version.

XI'AN NOVASTAR TECH CO.,LTD

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

NOVASTAR is a trademark of 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.

Official website
www.novastar.tech

Technical support
support@novastar.tech