ViewPlus TigerBox
User Manual
Revision: 20190628
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I. Introduction

A. Preface

Welcome to ViewPlus TigerBox, an AirPrint compatible wireless print server for current VP embosser models, including VP EmBraille, VP Cub, VP Max, VP SpotDot, VP Columbia, VP Delta, VP Premier, and VP Elite.

Connect your embosser to TigerBox to send text from mobile devices for text to Braille translation and embossing. It will work with mobile devices through CUPS (Common Unix Printing System) utilizing Airprint protocol. Devices running iOS are using CUPS by default. For Android devices, installation of CUPS client app might be required previous to using TigerBox, depending on Android operating system version. It is recommended to use Android version 6 or higher when printing through TigerBox.

TigerBox will produce Braille on the fly from mobile devices according to user preference settings for language, Braille type, and page layout. Only true text information will be translated to Braille. TigerBox will also enable to emboss tactile graphics.

Wi-Fi Direct mode

Wi-Fi Direct provides a direct wireless connection to your ViewPlus supported embossers that allows you to print without joining a local network or connecting to the Internet. When you activate Wi-Fi Direct on your embosser, you can securely print documents from most Wi-Fi-capable computers and mobile devices. The technology is similar to Bluetooth, but uses Wi-Fi to work at greater distances and faster speeds.

Wi-Fi Network mode

Tiger Box can also be configured to work in Wi-Fi Network mode where it can be configured as a client to another accessible wireless network. The advantage of Network mode is, that you can print content directly from the internet if the host network allows internet access. And, the embosser connected to Tiger Box will immediately be accessible for Braille printing from any PC or other device connected to the same host network.

Keep up to date by checking the ViewPlus Technologies, Inc. web site at:
www.ViewPlus.com
B. Specifications

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II. VP TigerBox Setup

A. Hardware Setup

The hardware for your TigerBox is easily setup with these simple steps:

1. Connect the micro USB of provided power cable to TigerBox, and plug in the power plug to a power wall outlet (or extended wall outlet).
2. If you are planning to setup TigerBox in Network Client mode to an existing local area network, connect it to the corresponding router using ethernet cable.
3. Connect your ViewPlus embosser to TigerBox using a standard USB device cable. Please note that only one of the four accessible USB ports will be active, but it is your choice which one you occupy.

TigerBox will boot upon power connection. The red LED light should turn on steady. The green light should be blinking, indicating proper Wi-Fi function.

Multiple TigerBoxes in the same area?

If you are planning to run multiple TigerBoxes within the same local area, please make sure to power on any next TigerBox only after changing network configuration of the previous one to identify itself with a unique SSID when leaving in Wi-Fi Direct mode, or a unique hostname when running in Network Client mode. Please see section II.C. below for further information.

B. Software Setup

iOS Mobile Devices

No specific software setup is needed on iOS mobile devices to be able to print wireless to your ViewPlus embosser @ tigerbox.

Depending on your network configurations, a network discovery app (e.g. "Fing") might be convenient though to find TigerBox IP address when configured in Network Client mode. This user manual will point out situations where this could be useful.
Android Mobile Devices

Please make sure that your mobile device is running CUPS printing service. Depending on your Android operating system version, it might be necessary to install Android CUPS printing app before printing from your device will be possible. You will find this app for free from Google Play Store. Search for "cups print" to find it and click to install.

![Screenshots of installing CUPS](image)

Depending on your network configurations, a network discovery app (e.g. "Fing") might be convenient to find TigerBox IP address when configured in Network Client mode. This user manual will point out situations where this could be useful.

Please also note, that the capability to print through TigerBox from your mobile device depends on printing capabilities of the application from where you are sending data to be embossed.

C. Configurations for Wireless Printing

As mentioned within preface of this document, there are two operating modes for TigerBox: Wi-Fi Direct mode, and Wi-Fi Network Client mode. Wi-Fi Direct mode is running by default after initial hardware setup of TigerBox.
Connecting to TigerBox in Wi-Fi Direct mode and accessing user interface

TigerBox is hosting direct Wi-Fi named "TigerBox" by factory default. As long as TigerBox is configured to Wi-Fi Direct mode, you will need to connect your mobile device, or PC, to this Wi-Fi in order to access user settings and configurations for wireless printing, and to print to the connected embosser.

User screens of different devices may vary from screen shots below, but in general these are the steps to be followed to connect to TigerBox Wi-Fi, and to access network configuration settings.

1. Open settings on your mobile device and select Wi-Fi. A list of known networks should appear.

2. Select "TigerBox" network and connect.

3. Your device will notice that TigerBox has no internet access and might try to disconnect and connect to a different Wi-Fi network instead, because the known network with internet access is preferred by your device. You may need to acknowledge that you want to stay connected, and possibly also need to select "forget other networks" and turn off mobile data.

4. When successfully connected to "TigerBox" Wi-Fi network, open your preferred web browser application and enter "http://10.10.0.1" for TigerBox dedicated IP address, or URL "http://tigerbox" within the address line. A page as shown in following pictures will open.
5. This is the "Home" page of the TigerBox user interface application within your web browser.

Depending on the ViewPlus embosser model that you have currently connected to your TigerBox, printer specific information will be displayed. With no embosser connected to TigerBox, printer specific information will show to not be available.

You can switch between sections "Home", "Formatter Settings", "Legacy Settings", and "System" by selecting the center left menu items.

Go to "System" for Wi-Fi Direct, or Wi-Fi Network Client configuration settings.
This is the section of the System page, where wireless configuration can be changed between Wi-Fi Direct and Wi-Fi Network operating mode.

This section is used for wired LAN configuration when connecting to your router via Ethernet cable.

At the bottom you find a "Refresh" button to refresh display of values after any change, as well as a button to check for updates on TigerBox. Please note, that internet connection is required when performing "Check for Update".
6. In Wireless LAN Configurations, TigerBox will initially provide Wi-Fi direct network with SSID "TigerBox" and no password. If you like, you can secure TigerBox direct Wi-Fi by entering a "Passphrase".

7. You may also change SSID, for example to differentiate between multiple TigerBox devices in Wi-Fi Direct mode.

8. Press "Apply" to save any changes made within main settings.

9. Make sure to remember SSID and passphrase to be able to connect to TigerBox again at any later time.

**Switching between Wi-Fi Direct mode and Wi-Fi Network Client mode**

You may switch configurations to run TigerBox in Network Client mode. The advantage in this case is to have access to whatever data the connection through this other network will provide (internet) at the same time as wireless printing through TigerBox will be possible.

Follow the steps below to connect TigerBox in client mode to another network.

1. Select radio button "Connect to another Network" within Main Settings of System home page.
2. A selection box will appear to choose one of the available networks to serve as host for TigerBox in Network Client mode. Select your preferred local network from the list that opens.

3. SSID of the selected network will show in edit fields below. Enter the passphrase (password) for access of selected network if your device does not remember it.

4. You may also change hostname of your TigerBox, for example to differentiate between multiple TigerBox devices connected as clients to the same network.

5. When pressing "Apply" TigerBox will switch to Wi-Fi network client mode. Current webpage user interface will not respond anymore as soon as TigerBox is switched to network client using the "Apply" button.

6. Connection to new host network is required (see next section below). If this happens automatically, because the device remembers that network, still a restart of the browser window might be necessary, or even a power cycle on TigerBox.

Be aware that from now on you will need to connect to the chosen local network and know its passphrase to be able to print through TigerBox, or to access TigerBox user interface.

If you are planning any changes to the host network of TigerBox (SSID, passphrase), or are planning to move TigerBox out of reach of current host network, please reset TigerBox to Wi-Fi Direct mode first and afterwards re-configure to Network Client mode with new properties. Otherwise TigerBox will not be able to connect to the network anymore, and consequently it will not be accessible anymore for printing.

If for whatever reason, access to TigerBox is not possible anymore through any device connected to the same network, a hardware reset will be required as described in section II.D below.
Connecting to TigerBox in Wi-Fi Network Client mode and accessing user interface

After TigerBox was switched to Network Client mode by choosing to connect to another Network in Main Settings under System section of TigerBox user interface, you will need to connect to the specified network to gain access to TigerBox again.

1. Open settings on your mobile device and select Wi-Fi. A list of known networks should appear.

2. Select the network that you specified to connect TigerBox to.

3. To access TigerBox user interface through web browser home page, you need to know the TigerBox hostname, or its IP address.

   The hostname is "tigerbox" by default, but you might have changed it as described in point 4 of section above. Enter "http://<hostname>" ("http://tigerbox" by default) in your web browser address line to access TigerBox user interface.

   Depending on router capabilities it might not work to accomplish connection trying to call through hostname. In this case you will need to enter the IP address of TigerBox in your web browser address line, like "http://<ipadress>" (for example "http://172.20.21.128").

   When using iOS, the IP address can easily be found by going to the print option of some app and looking up the list of available printers. Along with the name of the TigerBox printer, the IP address will be given.

   ![iOS available TigerBox printers with IP address information](image)

   When using Android, or iOS, a free network discovery app (e.g. "Fing") can also be used to find current IP client address of TigerBox. This app will find all devices connected to the network that your mobile device is connected to currently. Find tigerbox, or whatever the given hostname for TigerBox is, in the list of Devices and see corresponding IP address paired with this name.

4. If you are getting a warning message when accessing TigerBox user interface through IP address for the first time, please select to trust the host.
5. The web browser interface is still the same as in Wi-Fi Direct mode. It will show the "Home" page first with printer specific information for the ViewPlus embosser that is currently connected to this TigerBox, if any.

You can switch between sections "Home", "Formatter Settings", "Legacy Settings", and "System" by selecting the center left menu items.
The embosser picture also serves as link to "Home" section.
Please find description of all items that are relevant in conjunction with printing through TigerBox explained in chapter III. below.
If for whatever reason, access to TigerBox is not possible anymore from any device connected to the same network, a hardware reset will be required as described in section II.D below.

**D. Hardware Reset to Wi-Fi Direct Mode**

You might run into situations where TigerBox is configured to Wi-Fi Network Client mode, but connection to the previous host network is not possible anymore. Without the connection to the host network, it will not be possible to access TigerBox user interface to change any configuration settings.

In this case follow these easy steps to perform a hardware reset of your TigerBox which will result in Wi-Fi Direct operation and thus provide direct access to TigerBox Wi-Fi again.

1. Make sure to power TigerBox OFF.
2. Plug in the USB dongle which was delivered with your TigerBox.
3. Power TigerBox ON.
4. Wait a minute.
5. Power TigerBox OFF again.
6. Take out USB dongle.
7. Power TigerBox ON again and check if it is running in Wi-Fi Direct mode again by trying to connect to it via mobile device.
8. If TigerBox is not available for Wi-Fi Direct connection, repeat steps 1 through 7 and wait a little longer in step 4.
9. When connecting successfully to TigerBox direct Wi-Fi, browse to the user interface home page to change to desired configurations again as explained in document sections above.

**III. Printing to ViewPlus embosser @TigerBox**

**A. Settings for printing Text documents**

If you want to print text that still needs to be translated to Braille when printing through TigerBox, settings from "Formatter Settings" and "Embosser Settings" sections of TigerBox user interface will be taken into account. Please find all items from these user interface sections explained below.
Formatter Settings

TigerBox 10.2.16

TigerBox Braille Formatter
Language: English

ViewPlus Delta

Serial Number CDT0001009
Firmware 11.11.25
Libouis Version 3.3.0
Formatter Version 1.2.19

Formatter Settings

TigerBox License: 7586870815522795
for Hardware ID: 06:ec:51:ec:2c:28

Braille Language: [ ] English (US)

Braille Table and Screen Font

○ Pass Text through (No formatting)
○ Convert Text to Braille Ready Format (BRF) according to settings below

Braille Grade: [ ] Grade 1

Paper Size: [ ] Letter

Chars Per Line: [ ] 32 of max. 33 - Margins

Lines Per Page: [ ] 25 of max. 26

Interpoint: [ ] Never  [ ] Let App decide  [ ] Always

Page Numbering: [ ] Insert braille page numbers

Apply

TigerBox user interface Formatter Settings
**TigerBox License:** First on the formatter settings section you will find the TigerBox license number and hardware ID. The license number will have been entered from manufacturers site already.

**Braille Language:** The Braille table of the language defined in this field will be applied to translate text to braille with embosser output.

**Link "Braille Table and Screen Font":** This Link will bring up controls to install Braille table of selected Braille Language to the connected embosser, or download and install corresponding screen fonts to your device.

If you are planning to send Word files for printing that have been translated through Tiger Software Suite previously, the installation of corresponding screen font is necessary to receive correct Braille dot placement on output. These files would be send for printing through Tiger instance of VP embosser (see section III.D).

Besides providing these controls, the Braille table of currently selected Braille Language is also being displayed on screen.

**Radio control**
- **Pass Text through (No formatting):** In this case text characters are converted to corresponding Braille code of their ASCII value, applying the Braille table chosen with "Braille Language" setting. No further formatting of the document will occur, but Embosser Settings will apply for actual Braille output.
  OR
- **Convert Text to Braille Ready Format (BRF) according to settings below:** In this case the whole document will be formatted according to settings below, also applying the Braille table chosen with "Braille Language" setting for text to Braille translation.

**Braille Grade:** Depending on availability for language selected in "Braille Language" above, a grade of contraction for the resulting Braille code can be chosen here.

**Paper Size:** The paper size of print media, which is currently loaded to the embosser should be defined. Selecting the name of current paper size setting here will bring you directly to paper size selection under Embosser Settings.

**Chars per Line:** Depending on paper size, and left and right margin settings from Embosser Settings page, the maximum possible number of Braille characters per line will be given to the right. When choosing any number less than the maximum, extra blank space will be created at right margin of embosser output. Link "Margins" to the right will bring you directly to margin settings under Embosser Settings.

**Lines per Page:** Depending on paper size, and top and bottom margin settings from Embosser Settings page, the maximum possible lines per page will be given to the right. If choosing any number less than the maximum, extra blank space will be created at bottom margin of embosser output.

**Interpoint:** You have the choice to
- **Never** emboss a document double sided
  OR
- **Let App decide** and emboss whatever is send from the App, double or single sided document
  OR
- **Always** emboss double sided
Page Numbering: You have the choice of
- None, which will not include any page numbering in embossed document
OR
- Insert braille page numbers, which will include Braille page numbers at the bottom right of each page of the embossed document
OR
- Insert braille and print page numbers, which will add printed numbers to Braille page numbering depending on VP printer model capabilities.

Apply: Use this button to confirm any change in the settings above. This is essential for changed settings to be applied to any next Braille output.

Embossor Settings

![Embossor Settings Interface](image-url)
Embossed settings are passed on to the embossers and saved to the device to be applied to any following output of embossed Braille on paper.

**Paper Size, or Paper Width and Length**: You can choose either a predefined paper format from the drop down list, or enter specific paper width and paper length for custom paper size. Please note, that the setting here should conform with physical size of paper loaded to the embossers.

**Top Margin, Left and Right Margin**: You can enter customized margin settings in inch dimension.

**Extra Line Space**: The spacing defined here in inches, is being added in between lines, additionally to whatever line spacing the source data will include.

The maximum number of "Chars per Line" and "Lines per Page" in Formatter Settings is given in dependence to the dimensional page formatting constraints set by these Embosser Settings above.

**Graphics Mode**: You have the choice of
- **Text**, which will ensure Braille text output with specified line spacing
  OR
- **Graphics**, which will yield to line spacing being eliminated between lines of Braille code, producing tactile Braille graphics

**Text Wrapping**: Turn text wrapping
- **On**, which will make any Braille character exceeding the constraints of printable line width move to the next line
  OR
- **Off**, which will have any Braille character discarded when exceeding the printable line width.

**Braille Quality**: Depending on availability on connected embosser, the Braille quality can be set to **Draft**, **Standard**, or **Best**. Please refer to the embosser user manual for more information about these Braille quality modes.

**Braille Dot Height**: Select **Low**, **Normal**, or **High** to control how tall Braille dots will emboss.

**Media Type**: Depending on availability for the connected embosser, there will be a choice of media types to choose from. Choose the media type by name that would best match the characteristics of paper material currently loaded to the embossor.

**Dots Per Character**: Select 6 or 8 dot Braille to be produced.

**Braille Spacing**: Depending on availability for the connected embosser, you will have a choice of different Braille dot spacings to select by internationally known names.

**Apply**: Use this button to confirm any change in the settings above. The embossor should confirm saving of these settings with one beep.
B. Settings for printing Graphics documents

If you want to print graphical content, or files that have previously been translated to Braille using Tiger Software Suite, the following settings will be taken into account.

**Tiger™ Properties**

![Tiger™ Properties](image)

The actual selection of settings and options in Tiger Properties depends on the availability for the currently connected ViewPlus embosser.

**Paper Source**: Possible options are *Tractor*, *Manual*, or *ASF*. Tractor is the feeder for continuous paper, manual means feeding one sheet after the other during printing through single sheet feeder input tray, and ASF stands for "Automatic Sheet Feeder" like VP Emprint SpotDot, or VP Delta provide.

**Duplex mode**: Possible options are *Open to Left*, *Open to Top*, or *None*. Depending on capability of the connected embosser you can choose an option here for double sided embossing. Please note, that tactile graphics will not emboss double sided due to dot density.

**Output Face**: Select *Up*, or *Down* here. For embossers models that are capably of double sided embosser, this will specify the direction in which dots will protrude from paper on odd pages when exiting the embosser.
Page Size: All available paper sizes for the connected embosser will show. The paper size you choose should match the size of paper physically loaded to the embosser.

Inverse Landscape: Select Yes, or No. Inverted Landscape will enable banner printing in one piece on endless tractor feed paper.

Media Type: Depending on availability for the connected embosser, there will be a choice of media types to choose from. Choose the media type by name that would best match the characteristics of print media currently loaded to the embosser.

Braille Force: Select Heavy, Normal, or Light for the strength of embossed Braille text dots.

Print Mode: Possible options are Ink and Emboss, Emboss Only, Ink Only, and 2 in 1. Options for VP SpotDot, or InkConnect. Please refer to the device user manual for further explanation about these print modes.

Emboss Standard Texts: Select Yes, or No. If chosen yes, this option will cause standard text, that is not translated to Braille, to emboss like a tactile image of the characters.

Braille Quality: This setting effects quality of embossed Braille dots. Since dot quality is influenced by speed and direction of print head movement, a higher Braille Quality setting will cause the print out to take more time. You have the choice between Standard, Normal, and Best Braille quality.

Graphics Quality: This setting effects quality of and density of tactile graphics output. Choose between Draft, Standard, Best, Tiger17, and Tiger20 Graphics quality setting. It might be best to try different settings for certain graphic prints to gain some experience which setting is best for which purpose. As with Braille quality setting, this Graphics quality setting will also influence printing speed.

Thin Line Intensity: Choose between 1 and 6. With higher setting, lines with be more enhanced on tactile output.

Ink Quality: Possible options are Draft, Normal, or Best. An adjustment for quality of ink output on VP InkConnect, or VP Emprint SpotDot.

Dry Time: Lists numbers which will refer to drying time in seconds on VP Emprint SpotDot.

C. Adding VP embosser @ tigerbox to system devices

Printing functionality and procedures in generally work the same from Android, or iOS mobile devices and even from a Windows PC connected to the same network as TigerBox in Network Client mode. The procedure to add the VP embosser @ tigerbox to the system, to be able to call the device for printing, is different between these three operating systems. Find instructions below.
Adding VP embosser @ tigerbox on Android Mobile Devices

If your device did not already provide CUPS printing service and you had to installed this to your mobile device as explained in section II.B of this document, you will also have to switch this "On" under your system settings. In this case, follow the steps below to activate print service through CUPS on your mobile device.

1. Go to device settings and if you don’t find an item for printing services within the given list of settings, type "printing" within search on this screen.

![Looking for CUPS printing service within device settings](image)

2. Click on the result for Printing and Android CUPS Print should show in the list of available print services. Make sure it is turned On. If it shows to be turned Off, select Android CUPS Print.

![CUPS printing service showing to be turned off](image)
3. In the next screen select the switch to turn it **On**. If you get a message to confirm that you want to use CUPS, please do so and confirm with **OK**.

![Turning CUPS Print On](image)

4. Next your device will be searching for available printers on your network, and should show two instances of your ViewPlus embosser @ tigerbox in the resulting list. The purpose of Braille instance and Tiger instance of the same printer is explained within description of actual printing below.

![Showing available VP embossers @ tigerbox under Android CUPS Print](image)

**Adding VP embosser @ tigerbox on iOS Mobile Devices**

On iOS devices, no further action is required to make the ViewPlus embosser @ tigerbox available for printing from any app. The purpose of Braille instance and Tiger instance of your VP embosser is explained within description of actual printing below.
Adding VP embosser @ tigerbox on Windows PC

You can not only print to VP embosser @ tigerbox from mobile devices, but also from Windows PCs connected to the same network as TigerBox in client mode.

Accessing TigerBox settings and printing preferences will work the same way as on your mobile device, through web browser application.

TigerBox provides two instances of the ViewPlus embosser connected to it, a Braille instance and a Tiger instance. In general the Braille instance of the printer is used to print text documents, and the Tiger instance of the printer is used to print tactile graphics documents. See further information about this within description of actual printing in next section below. However, the two instances of the VP embosser @ tigerbox have to be added separately under system devices on a Windows PC.

To add the VP embosser (Braille) on a Windows PC follow these steps:

1. Go to system control panel for printers and devices and choose to add a printer.

2. In the first dialog that comes up select "The printer that I want isn't listed" immediately (no need to wait for the search).

3. In the next dialog choose "Select a shared printer by name" and enter the name in this format "http://<ipaddress>:631/printers/braille", replacing place holder for IP address with actual IP address of the TigerBox as seen in screen shot below. Please note that the IP address is different when you are connected to the same network as TigerBox through cable, than it is when connecting to the wireless network that hosts TigerBox client.
4. In the next step make sure to select "Generic" under Manufacturer and "Generic / Text Only" under Printers list.

![Adding Braille instance of TigerBox embosser to Windows PC](image)

5. After completing the installation process by confirming the next dialogs with OK, or Next button, a printer with name "braille on http://<IPaddress>:631" will have been added to your list of available printers under Windows system. It will appear in the list of available printers when you go the Print option from any Windows program.

![TigerBox Braille printer added successfully to Windows PC](image)
To add the VP embosser (Tiger) on a Windows PC you need to have the ViewPlus printer driver of the corresponding printer model installed on your PC first. If the printer driver is installed, please follow these steps:

1. Go to system control panel for printers and devices and choose to add a printer.
2. In the first dialog that comes up select "The printer that I want isn't listed" immediately (no need to wait for the search).
3. In the next dialog choose "Add a printer using a TCP/IP address or hostname" and click Next.

![Adding Tiger instance of TigerBox embosser to Windows PC]

4. In the next step enter the IP address of TigerBox within the network that you are connected to.

Please note that the IP address is different when you are connected to the same network as TigerBox through cable, than it is when connecting to the wireless network that hosts TigerBox client.
5. Within next dialog select "ViewPlus Technologies" under Manufacturer, and the name of the ViewPlus printer model that you have attached to TigerBox under Printers list.

6. The installation will proceed in standard procedure. Before it finishes, you are given the opportunity to change the printer name that will be displayed in the list of available printers when you go to the Print option from any Windows program.
It might be a good idea to add "(Tiger)" to the default name of the ViewPlus printer model, which would be the same naming convention as Tiger instance of ViewPlus embosser @ tigerbox on your mobile device.

Adding Tiger instance of TigerBox embosser to Windows PC

Please see description below to know which instance of VP embosser @ tigerbox (Braille, or Tiger) should be used for which kind of documents. This applies in the the same way for all operating systems, Android, iOS, or Windows.

**D. Printing through TigerBox**

When you are going to select a printer that is connected through TigerBox, you will always see two instances of the ViewPlus embosser model that is attached. The printer name will specify "Braille" or "Tiger".

**When to choose VP embosser (Braille)?**

In general you want to choose the Braille printer for printing text that need to be converted to Braille output. Send standard text documents like TXT, DOCX, or PDF format. On-the-fly-translation will only happen when using the Braille instance of VP embosser @ tigerbox, not the Tiger instance. Formatter and Embosser settings will apply in this case for Braille document creation, and any graphics within the text of such documents will be eliminated, resulting in plain Braille text output.
When to choose VP embosser (Tiger)?

In general you want to choose the Tiger printer for embossing graphics from any application that provides the print option. When printing to the Tiger instance of the embosser, it will behave like ViewPlus printers through Windows printer driver on your PC. Graphics will be embossed following the principle "What you see is what you get", converting coloring of images to variable dot heights. Standard text will be eliminated from the document output in this case. Only text that has previously been converted, or formatted to Braille29 font in size 29 will be embossed in Braille on printer output. E.g. this is the case if text has been translated with Tiger Software Suite previously.

Printing from App (example "Pages") on iOS device:

1. Choose the print option from submenu provided to share, or export data.

2. Select printer which you want to use for this print.
3. Print preview will be shown along with printer options available at this point.

4. Hit the Print button at the top right corner to start embossing on VP embosser @ tigerbox.
Printing from App (example "Chrome") on Android device:

1. Choose the print option from submenu provided to share, or export data.

   ![Selecting print option from application on Android device](image)

2. You might get warning messages as in pictures below. Please select to trust the connection and trust the host.

   ![Warning messages when attempting to print using TigerBox printer](image)
3. A list of available printers will appear. Choose the printer you would like to use for print output.

![List of available printer through Androids CUPS](image)

4. A print preview will show. This is a feature of CUPS service. Note, that the text has not yet been translated to braille in this preview. The top section on this preview will show which printer is currently selected along with a few settings that can be changed here, like number of copies to print, or page range. Expand or collapse the settings section.
5. Tap the printer icon, which should start embossing on VP embosser @ tigerbox.

**Printing option from TigerBox user interface Home screen**

When wanting to print a Braille, or tactile graphics document that was previously created, or downloaded in Braille Ready Format (*.BRF, *.BRL), or Tiger Format (*.PRN), you can send it directly through TigerBox user interface and not have to choose which instance of the embosser you are printing it to. Follow these steps to accomplish the task:

1. Make sure to have saved a local copy of this file first.

2. Go to the TigerBox user interface in your web browser and call page "Home" if this is not showing already.

3. Within the bottom section of the Home screen you find button "Choose File" to open browser options from your device and select a file that you wish to send for printing.

4. Then select button "Emboss", showing the ViewPlus logo, to start embosser output.
This feature can be extended to an external file repository if you insert a USB flash drive into an open USB port of TigerBox. **Please note**, that the USB delivered with your TigerBox is not compatible to serve for this purpose. Also, before a USB flash drive will be accepted by TigerBox, it needs to be renamed to "Tiger", or "ViewPlus". Please see "Printing from USB flash drive file repository" section below.

**Printing from USB flash drive file repository**

Additional to the possibility to send files for printing from local device storage, you can create a file repository stored to a separate USB flash drive. **Please note**, that the USB delivered with your TigerBox is not compatible to serve for this purpose. Also, before a USB flash drive will be accepted by TigerBox, this will need to be renamed to "TIGER", or "ViewPlus". This can be done when inserting the USB flash drive into a PC first. The USB drive name is case sensitive, so either "TIGER" with all capital letters, or "ViewPlus" in one word with capital "V" and "P" and other letters lower case.

After inserting the USB flash drive into TigerBox and refreshing the user interface screen on your device, you will find a request within "Home" to "Mount as EmbossMe™ device". Please follow by selecting this text link.

Next the "Home" screen will tell you to rename the USB Storage volume label to "TIGER". Only do this if you haven't renamed the USB flash drive to "TIGER", or "ViewPlus" before. Otherwise ignore this request.
Request to rename USB drive

With the required naming of the USB flash drive, and after refreshing the TigerBox user interface within web browser of your device, "Home" will change to show information about USB flash drive content. A fresh USB drive with empty file repository will be displayed with following items.

**Keep recent print jobs**: When this check box is checked, all printed documents will be saved in *.PRN file format to folder "Recent Print Jobs".

**Recent Print Jobs**: This button will access content of the folder that holds all recently printed documents in *.PRN file format. Choosing any of the files within this folder will call "EmbossMe™" interface for PRN file type as described below.

Folder "Recent Print Jobs" is only available if option "Keep recent print jobs" is checked.
Files can be uploaded to the USB flash drive file repository by using button "Choose File" to open a file browser on your device. Choose a file of compatible type from your device storage. Compatible document file types are *.PRN, *.BRL, *.BRF, *.EBF, *.DOCX, *.ODT, *.PDF, *.TXT, *.ASC, or *.RTF. Compatible image file types are *.PNG, *.JPG, or *.BMP.

After choosing the desired file for upload, use the upload button to the right of the file browser button. The file will be saved to file repository of USB flash drive in a folder named according to the file extension.

After uploading at least one file of each type, the "Home" screen will look like in following picture, where a folder for each compatible file type is included.

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TigerBox user interface Home screen with file repository
To print a file from the repository, go to the desired folder and choose a file from the list of available files. As an example, the next picture shows 8 available files in folder "BRF" after selecting this folder.

> Content of folder "BRF" on USB flash drive

Depending on the file type, when selecting a file from any of the folders, TigerBox will offer different "EmbossMe™" actions for further processing. Independent on file type, this will always include:

**Download:** the file will be downloaded from USB flash drive file repository to local storage of your device AND

**Remove:** removal and discard of the file from USB flash drive

When choosing a PRN file from folder "PRN", or from folder "Recent Print Jobs", additionally to the above, you will be given the option to

**Queue for embossing:** PRN files are already translated to machine language and hold information dot by dot that will be send for embosser output without any further processing or translation of the data.
For other document or image file types, possible actions to choose from, additionally to Download, and Remove, are

**Translate through Formatter:** This is to translated text within the document to Braille according to Formatter and Embosser settings and then embossing the Braille text document.

AND / OR

**Print through Tiger:** This is to emboss as is, converting images to tactile graphics. Only text that has previously been translated and formatted to Tiger Braille font within the document will emboss in Braille with this option.

Different "EmbossMe™" action screens
IV. ViewPlus Help and Support

Please note, that online options from TigerBox user interface as described below do require internet access at the same time, which means that these options will not work if running TigerBox in Wi-Fi Direct configuration.

On the top right of the TigerBox user interface in your web browser, below the ViewPlus logo, you will find links to ViewPlus online FAQ section, the online TigerBox user manual, and the main ViewPlus webpage.

Also, at the bottom of the "System" page within TigerBox user interface, you will find a button called "Check for Update". Use this button to retrieve updates from ViewPlus online, which might include new Braille tables for text to Braille translation in certain languages, or new features to the device.
Additional training and support is available for purchase through your authorized ViewPlus distributor or from ViewPlus Technologies.

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