VP EmBraille User Manual
Revision: 20200803

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I. Introduction

A. Preface

**ViewPlus EmBraille
User's Manual**

Congratulations on owning a ViewPlus EmBraille Embosser, the world's only lightweight and compact desktop embosser. This manual will introduce you to basic information regarding your new equipment. The ViewPlus web site is another resource for information on your EmBraille Embosser including examples, tutorials and other useful downloads.

Your EmBraille is Powered by Tiger. This means you receive:

> **Windows Printer Driver:** Connects ViewPlus printers and embossers to the power of Windows, embossing and networking just like a mainstream printer.

> **Tiger Software Suite:** Powerful addition to Windows adds braille and tactile graphic functionality to MS Office.

ViewPlus embossers use the standard Windows printer driver to mix text and graphics in mainstream Windows software like Word and Excel. Use the computer to adjust settings and preferences. Print documents exactly how they appear on the screen.

Use the Tiger Software Suite to take braille translation and tactile graphics to a new level. Tiger add-in to Microsoft Office gives you advanced tools for translation and embossing. Tiger Designer enables basic editing of documents for quick drawing and braille needs. Translator serves as a basic translation tool for almost any Windows software- including PowerPoint and Corel Draw.

Keep up to date by checking the ViewPlus Technologies, Inc. webpage at:
http://www.ViewPlus.com

**VP EmBraille Model Number:
VPTT1702-00 (120V)
VPTT1702-01 (240V)**

B. Compliance Statements

FCC Compliance Statement (USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note the following:

- The use of a non-shielded interface cable with the referenced device is prohibited.
- The length of the power cord must be 3 meters (10 feet) or less.

This unit is also intended for connection to IT distribution systems.

Compliance Statement (Canada)

This digital apparatus is in conformity with standard ICES-003 of Canada.
Cet appareil numérique est conforme à la norme NMB-003 du Canada.

Compliance Statement (Germany)

Bescheinigung des Herstellers/Importeurs: Hiermit wird bescheinigt, dass der Drucker der Maschinenlärminformationsverordnung 3. GSGV, 18.01.1991 entspricht: Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN27779-1991.

Compliance Statement (Europe)

Warning: This product meets the interference requirements of EN 55032. In a domestic environment, this product may cause radio interference in which case, the user may be required to take adequate measures.

Compliance Statement (Korea)

This apparatus complies with CISPR32 requirements.

International Compliance

EN55022:2006 (Amended by A1:2007) Class A	Emissions series
EN55024:1998 (Amended by A1:2001 and A2:2003)	Immunity characteristics
EN61000-3-2:2006 (Amended by A1:2009 and A2:2009)	Power line harmonics
EN61000-3-3:2008	Power line flicker
EN61000-4-2:2008	Electrostatic discharge
EN61000-4-3:2010	Radiated susceptibility
EN61000-4-4:2004 (Amended by A1:2010)	Electrical fast transient/burst
EN61000-4-5:2005	Surge
EN61000-4-6:2008	Conducted immunity
EN61000-4-8:2009	Magnetic Field Immunity
EN61000-4-11:2004	Input voltage interruptions/DIPS

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Waste Electrical and Electronic Equipment (WEEE) Compliance

ViewPlus GmbH complies with EU Directive 2002/96 regarding WEEE recycling; upon the conclusion of the product lifecycle, please contact ViewPlus GmbH concerning proper disposal.

C. Safety Instructions

Read all of these safety instructions before using the EmBraille Desktop Embosser. In addition, follow all warnings and instructions marked on the EmBraille itself.

Keep this Operator's Manual in a place which is easily accessible at all times.

- Ensure that there is adequate ventilation around the unit.
- Do not place unit near a radiator or heat source.
- Keep unit out of direct sunlight.
- Make sure that the embosser and computer are switched off before connecting the data cable.
- The print head will become very hot during printing; avoid contact with the print head after printing has finished.
- Do not block or cover slots and openings in the unit's case; do not insert objects through slots.
- Use only the type of power source indicated on the unit's labels. There are different models of EmBraille for 120V type power source and 240V type power source.
- Connect all equipment to properly grounded electrical outlets.
- Do not use frayed or damaged power cords. After connecting power cords, ensure that they are not twisted, knotted or pinched before using the unit.
- Do not use an extension cord with the unit.
- If using a surge protector, ensure that the total current rating of all connected equipment does not exceed the maximum rating of the surge protector or wall outlet.
- Unplug the unit before cleaning it; always clean it with a piece of damp cloth only.
- Do not spill liquid into the unit.
- Detach the unit from power source and refer to qualified service personnel under the following conditions:
  - If the power cord or plug is damaged.
  - If liquid has entered the unit.
  - If the unit has been dropped or tipped over or if the case is damaged.
  - If the unit does not operate properly or exhibits a distinct change in performance.
  - If the unit becomes extremely hot, or if smoke, unusual smells or abnormal noises are emitted from the printer.
- Except as specifically explained in the user's manual, do not attempt to service the unit.
- Only adjust those controls that are covered in the user's manual.
- Keep hair, jewelry and clothing clear of moving parts in the printer and embosser.
- When clearing paper jams or performing routine cleaning of parts as directed in this manual, use caution to prevent touching the printer's fuser unit or the embosser's motors, as these parts can be hot and contact may cause injury.

II. General Information

A. Specifications

	VP EmBraille
Print speed	Up to 25 CPS
Printing mode	Single sided
Tactile resolution	17 DPI
Tactile Graphics Dot Heights	Variable for color representation
Braille Dot Heights	Adjustable in 3 heights
Paper Width	3 – 8.5 inch (77 – 216 mm), Form size letter, or A4
Paper	Continuous, Single Sheet Feeder
Paper Weight	30 – 108 lb (50 – 175 gsm)
Connection	USB 2.0 (B type connector)
Compatibility	Windows 7, 8, 8.1, 10
Height Width Depth Weight	6.25 inch (159 mm) 14.13 inch (359 mm) 11.20 inch (285 mm) 11 lbs (5 kg)
Operating Temperature	41 to 95 °F (5 to 35 °C)
Storage Temperature	°F (-20 to 55 °C)
Humidity	20 to 80% RH (non condensing)
Energy Supply	• AC Input: 110-120V~, 50/60Hz, 2A. DC Output: 5VDC/1A, 38VDC/2A • AC Input: 200-240V~, 50/60Hz, 2A. DC Output: 38VDC/2A
Standby	< 4 W
Heavy embossing	< 85 W
Lifetime	10,000 pages

B. System Compatibility

The Windows driver for EmBraille is compatible with operating systems from Windows 7 to current Windows versions, both 32- and 64-bit systems.

A Mac OS 10.9 printer driver is also available for the ViewPlus EmBraille embosser.

III. Printer Setup

A. Unpacking

o Place your packaged embosser on a solid base.
o Make sure the box is placed with the correct side up.
o Open the box, lift the embosser out of the cardboard box and remove the remaining packaging material and tapes.
o Open the embosser top covers and remove the cardboard shipping locks surrounding the print head.
  - There are two cover pieces. Remove the side to side narrow piece at center top first. Putting some pressure on the piece towards the right, at the same time pull the piece upward at right end. It should snap off.

  - The second piece comes of easier when trying to lift on both sides simultaneously where the half-round, extruded edges are.

- Check the embosser for any visible transport damage and missing items. If you find any transport damage or if any accessories are missing, please contact your dealer.
- When unpacking a new unit the following items should be included:
  - Embosser
  - Paper feed knob
  - Paper feed tray
  - Power cord
  - USB cable
  - USB flash drive
  - Installation Guide
- Install the paper feed knob at the right side of the machine if not already installed.

NOTE: SAVE THE PACKING MATERIAL AND BOX!

If any damage occurred during shipping, most shipping companies require the box and the packing material in order to settle the insurance claim. The packing material must also be used to ship the ViewPlus embosser for warranty maintenance service, or repair. If not existent anymore, new packaging material has to be purchased before return of the embosser is authorized.

B. Hardware setup

Embosser components

Paper Guides: Adjusts positioning of single sheet paper.

Top Covers: Protect print head and other components inside, and reduce noise.

Operator Panel: Shows embosser status, and is used to control internal functions.

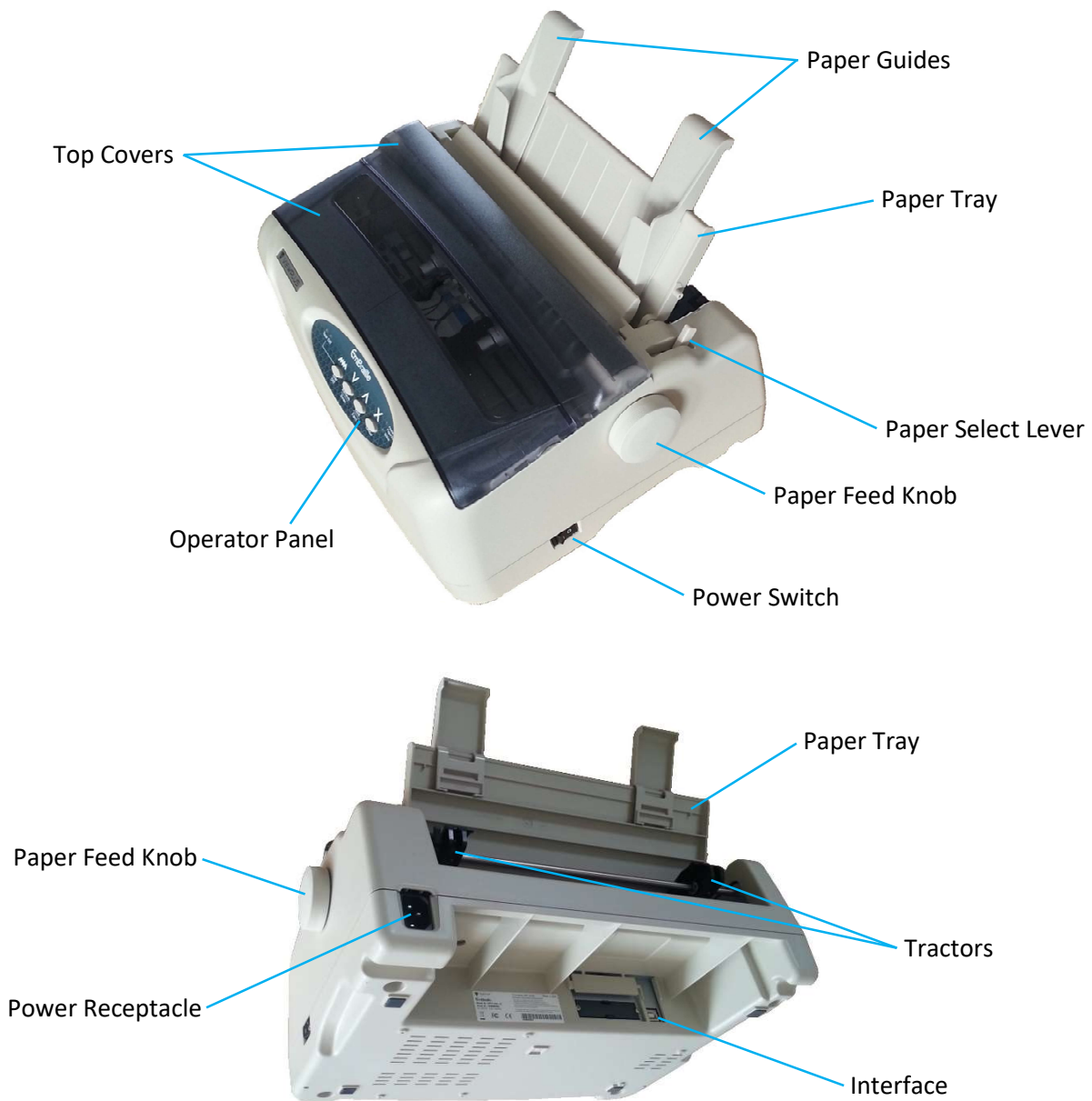**Paper Select Lever:** Toggles between continuous tractor feed and single sheet paper feed.

Paper Feed Knob: Is used to manually drive the roller for vertical positioning of paper.

Power Switch: Powers embosser ON or OFF.

Tractors: Position and feed continuous tractor paper.

Power Receptacle: Input plug for the power cord to the embosser.

Interface: Provides connector for USB cable from the host computer to the embosser.

Paper Guides

Top Covers

Paper Tray

Paper Select Lever

Paper Feed Knob

Operator Panel

Power Switch

Paper Tray

Paper Feed Knob

Tractors

Power Receptacle

Interface

Pictures above showing EmBraille hardware

Single Sheet feeder and cable attachment

- Make sure the paper feed knob is installed as already mentioned in section 'Unpacking' above.
- Install the single sheet feeder above the tractors. Address it from top down to round plastic pins extruding from either inwards. If it doesn't slight down over the pins easy, push a little until it snaps and holds itself without falling back.

- Check the embosser voltage: The EmBraille does not incorporate a universal power supply so please confirm that the specified voltage of the embosser matches your country's power supply voltage. To do this, check the label at the back of the embosser. Contact your dealer if the setting is incorrect. Never switch on the embosser if the voltage setting is incorrect; this may result in electrical damage to the embosser.
- Make sure that the power switch located to the right side of the embosser, is in the "O" (off) position.
- Connect the power cord to the power inlet of the embosser. Connect the power cord plug to a wall outlet socket. Make sure to connect EmBraille model VPTT1702-00 to 120V power outlet only, and EmBraille model VPT1702-01 to 240V power outlet only.
- Before connecting the embosser to a computer it is recommended to power on once and see if it initializes okay. If yes, load paper, turn back off, and then turn on again while holding down the 'Cancel' button until the print head moves. Now the embosser will print a test page, which serves as a basic function test. This will assure basic functionality of the embosser before sending data from a different source.
- Make sure the printer driver is installed before connecting the embosser to the computer via USB cable.
- Former version of EmBraille was also providing parallel and serial interface, but these interfaces are no longer available with 2020 model of the embosser.
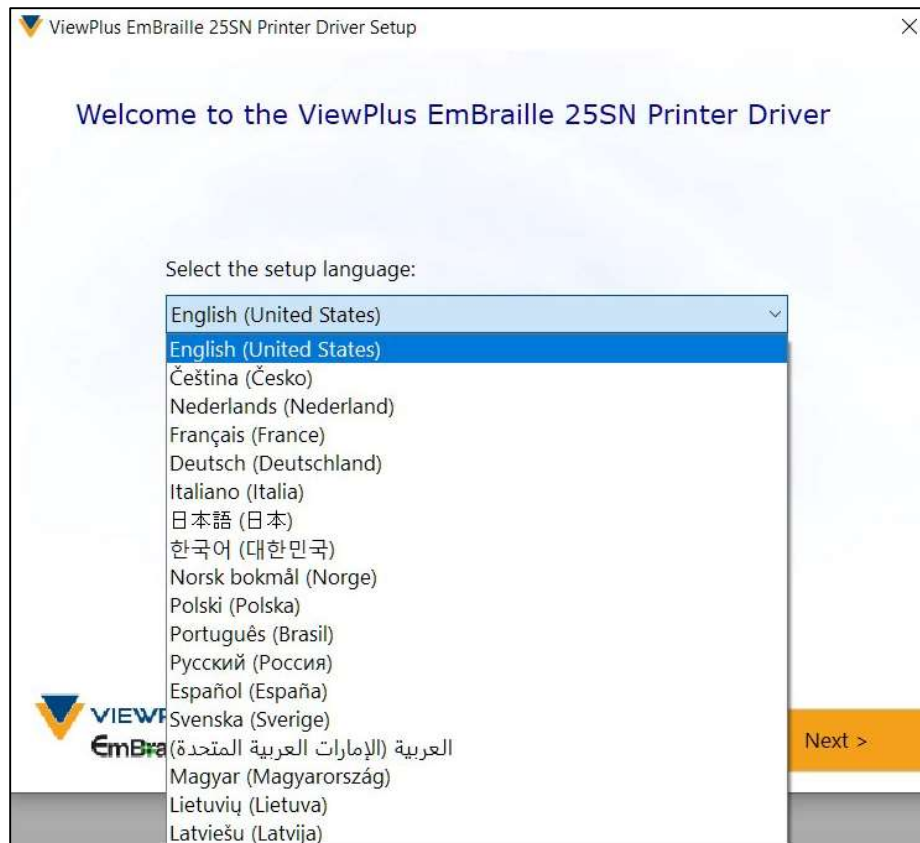
C. Driver Installation

A Windows printer driver is included with your EmBraille on USB flash drive, as well as the Tiger Software Suite (TSS). Run 'Home.html' from USB if not starting automatically. Choose EmBraille embosser model on first page to continue to corresponding setup instructions.

Do not connect your VP EmBraille to the computer during installation of the Windows printer driver, or turn it off during this process. Run the driver setup from the USB, or download current EmBraille driver from ViewPlus website, www.viewplus.com.

When running the printer driver executable, at first you will be asked to allow changes to your computer. Please confirm with 'Yes'.

The first EmBraille driver installation dialog will allow you to choose the desired language for user interfaces.

Shows Driver installation dialog

Choose your language and click 'Next'. Then follow further instructions from the installation program to finish EmBraille driver installation.

After installation of the driver, connect the EmBraille to the computer and turn it on. The system should automatically detect the printer and add it to Windows system settings panel under 'Devices' - 'Printers & scanners'.

It is possible that it does not detect correctly at first try. In this case, please try again to connect to the same or another USB port of your computer.

For installation of the Tiger Software Suite please also follow the instructions from the setup program. For use of the Tiger Software Suite (TSS) please refer to the TSS manual.

After your VP EmBraille printer driver installed successfully, you may also install the ViewPlus Tiger Software Suite. For installation, please follow the instructions from the setup program. For use of the Tiger Software Suite (TSS) please refer to the TSS user manual.

C.1 Windows Printer Driver and Device Removal

If you wish to remove the VP EmBraille printer driver application from your computer, you can either run the printer driver setup program again, which will give you the option to remove the driver, or use Windows uninstall option under system settings 'Apps & features'. A search for "EmBraille" will lead to driver uninstall option.

Be aware that deleting the EmBraille device appearance under Windows system devices control panel will not remove the printer driver installation from your computer, but just the instance of the device assigned to a specific port.

Sometimes, Windows will automatically add instances of the same device under system settings 'Devices' -> 'Printers & scanners', or control panel 'Devices and Printers' respectively, and all of the sudden, you have Copy 1 or further available from your EmBraille printer. If this is not desired, and you have trouble assigning your print jobs to the correct printer device name, please go ahead, unplug EmBraille and remove all EmBraille printer devices under Windows system settings 'Devices' -> 'Printers & scanners', or control panel 'Devices and Printers' respectively. Now plug EmBraille back into USB, and Windows should automatically add one instance of the printer again, which will then be assigned to the correct port, too.

IV. Printer Properties

A. Introduction

The ViewPlus printer driver uses a standard Windows printer driver interface to provide user access to settings and options of ViewPlus embosser from a local or networked computer. Printer properties are accessible through Windows system settings 'Devices' -> 'Printers & scanners', or control panel 'Devices and Printers' respectively. Select ViewPlus EmBraille in the list of printers and get to printer properties through the context menu. Select 'Manage' and find printer properties on next page when accessing through Windows system settings 'Devices' -> 'Printers & scanners', or use right mouse click context menu when accessing through control panel 'Devices and printers'.
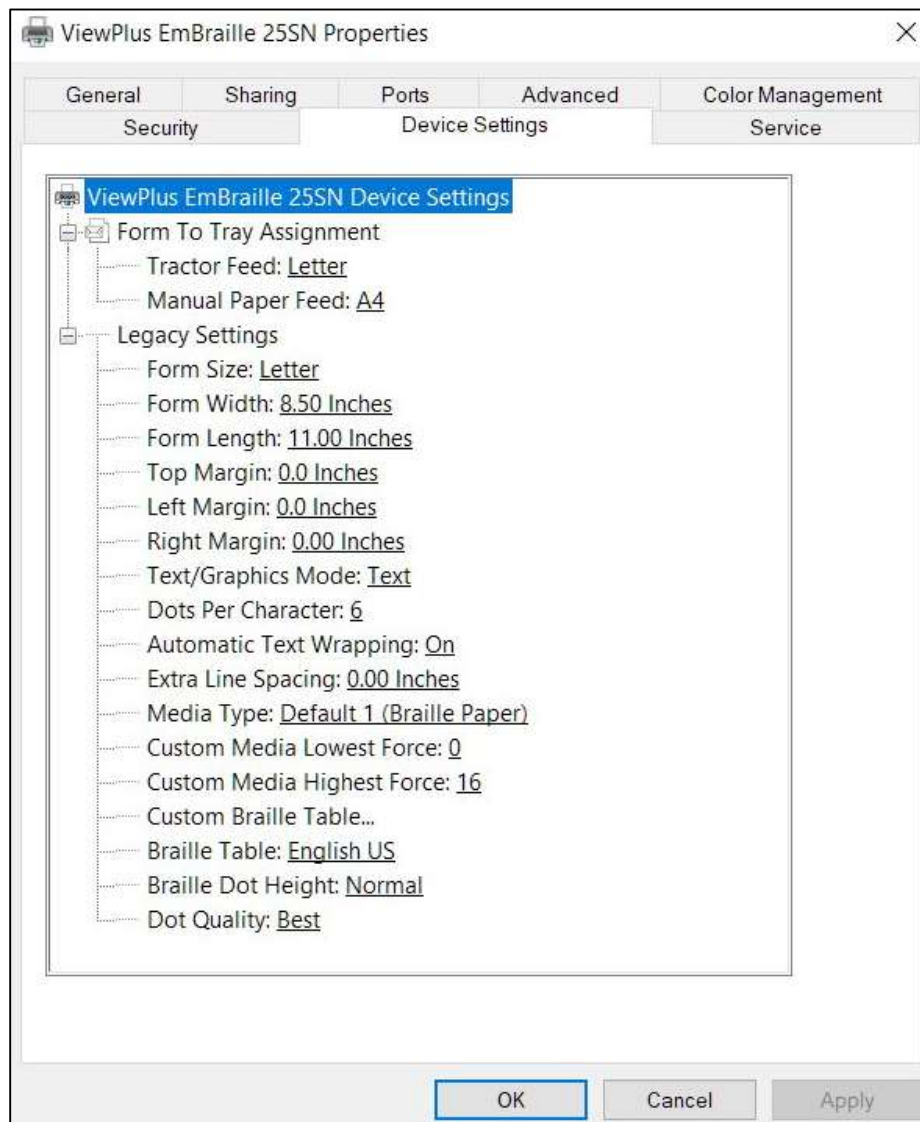
Printer properties contain general device settings such as for connectivity, sharing, and security, but also ViewPlus specific settings for legacy mode operation and service procedures. Note, that these options are only activated when your EmBraille device is locally connected through USB and switched on.

Always click the 'Apply' button to activate changes.

B. Printer Properties

B.1 Device settings tab

The device settings are properties that are stored within the internal memory of the printer. Therefore the printer needs to be locally connected through USB and turned on. To activate any changes, always click 'Apply' button when done with settings. The printer will beep once to confirm the receiving of the changed settings.

Shows Windows printer properties dialog - Device Setting

- **Form to Tray Assignment**

The first section of the Device Settings tab controls 'Tray Assignment', allowing to assign a specific paper form size to tractor, and manual paper feed path. This shows due to standard dialog from Windows, but for ViewPlus EmBraille, this form to tray assignment is not being applied in any way. Please just ignore this first section of device settings list.

- **Legacy Settings**

The second section of device settings list controls the embosser's legacy settings. These settings are used when you print to EmBraille from programs that do not use Windows printer driver, which is usually the case when printing from braille note takers. But even on a Windows computer there might be Braille programs that do not pass data through Windows printer driver, but stream directly to the printer, for example Duxbury DBT. In this case settings below will apply to resulting Braille output document.

Form Size – Select a standard page size, or select Custom to set the page size manually.

Form Width – This field shows the page width. For standard page sizes, this field is informational only. If the Form Size is set to Custom, this field is editable.

Form Length – This field shows the page length. For standard page sizes, this field is informational only. If the Form Size is set to Custom, this field is editable.

Top Margin – This top margin will be applied in addition to any margin information that might be send with print job data. Braille programs often send top margin information in number of Braille lines. You might want to try this top margin value set to 0.0 first, and increase as needed.

Left Margin – This left margin will be applied in addition to any margin information that might be send with print job data. Braille programs often send left margin information in number of Braille characters. You might want to try this left margin value set to 0.0 first, and increase as needed.

Right Margin – This right margin setting will be applied in addition to any margin information that might be send with print job data. Right margin information from Braille programs is often defined indirectly by number of Braille characters per line. This right margin setting might interfere with desired Braille line. If seeing any problem, you might want to try this right margin value set to 0.0 first, and increase as needed.

Text/Graphics Mode – Select Text mode if your legacy document contains text. If the document is a graphic, select Graphics mode to remove the space between Braille lines so that dots may be printed in an even grid.

Dots Per Character – Select 6 or 8 dots.

Automatic Text Wrapping – Select 'On' if lines in the document exceed printable width on paper, and you do not wish the lines to be truncated. If the document is formatted correctly for the page size and margins you are using, or if you do not wish to have long lines wrapped to the next line, select 'Off'.
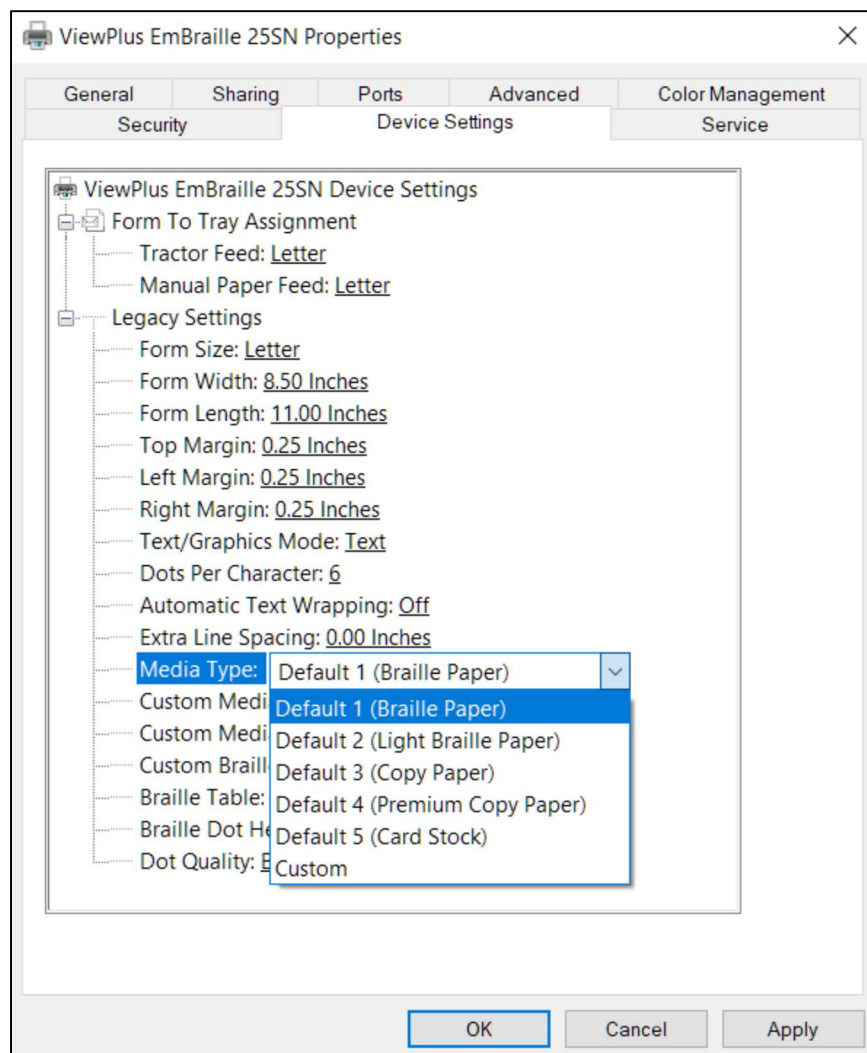
Extra Line Spacing – Set the amount of extra space desired between braille lines. Please note, that this extra line spacing is added to any line spacing given by print data information from Braille program.

Media Type – Media Type setting defines embosser punch force being applied to form tactile dots into the paper (print media). The stronger the media, the higher the punch force needs to be to form readable dots. A list of presets for certain media types is available, but a 'Custom' setting is also possible if the presets will not yield satisfactory embossing results.

If custom media type is chosen from this item, than the next two list items will be applied for Custom Media Lowest Force, and Custom Media Highest Force, which will define the minimum and maximum punch force to be applied to lowest and highest tactile graphics dots. All other dot heights will be extrapolated from these two numbers.

To know which lowest and highest force value will give good embossing results using your media, you can go to Advanced options on Paper/Media tab of Windows Printing Preferences. See section C.2 below to learn how to print the test for adding custom media type.

NOTE: THE MEDIA TYPE THAT YOU CHOOSE HERE WILL BE SAVED TO THE EMBOSSER INTERNAL MEMORY, AND WILL REFER TO AS 'Printer Setting' WITHIN MEDIA TYPE SELECTION OF WINDOWS PRINTING PREFERENCES (section C. below).
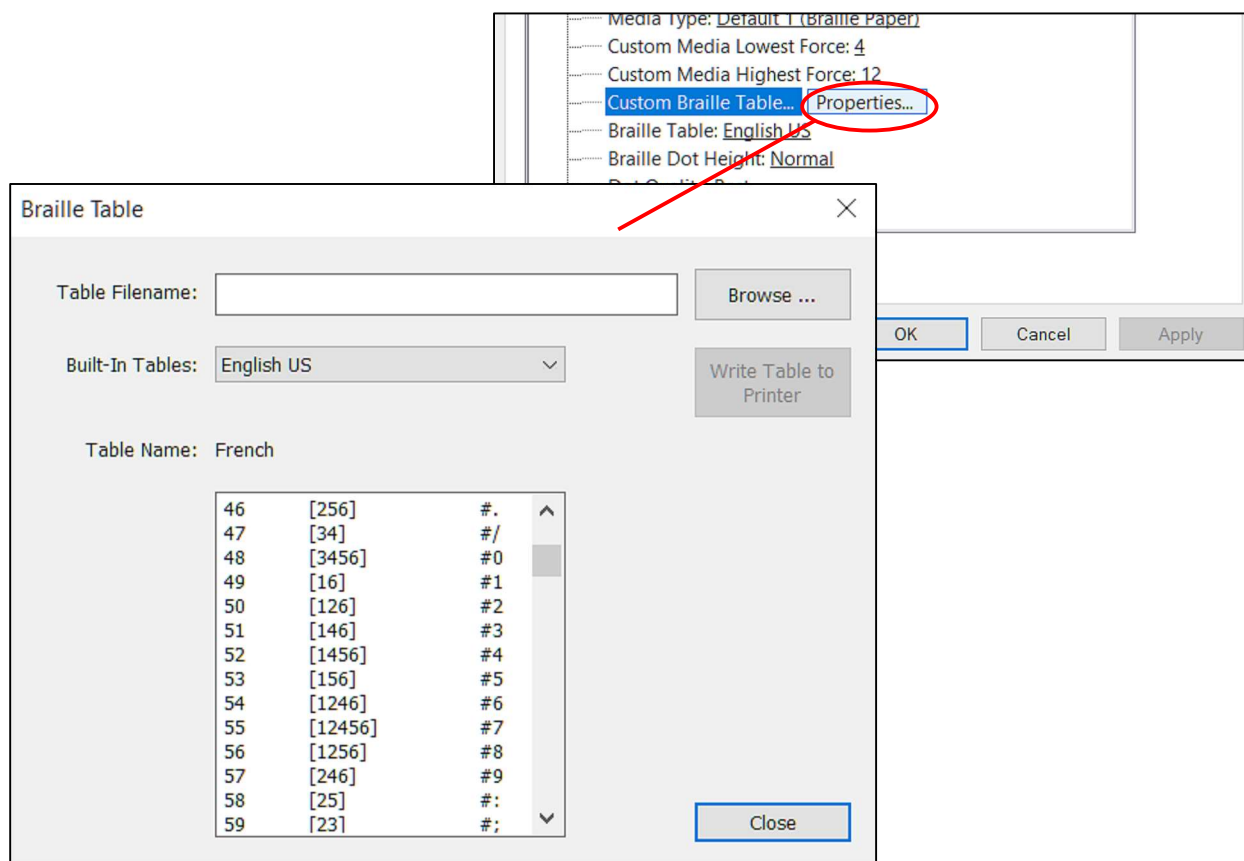

Shows Windows printer properties dialog - Device Setting

Custom Media Lowest Force – Enter the punch force value to be used for the lowest dots on custom media type. See also advanced option from Media tab of Windows Printing Preferences (see section C.2 below) for a test procedure to define best force values for your custom media.

Custom Media Highest Force – Enter the punch force value to be used for the highest dots on custom media type. See also advanced option from Media tab of Windows Printing Preferences (see section C.2 below) for a test procedure to define best force values for your custom media.

Custom Braille Table… – The ViewPlus EmBraille has some Braille tables stored on-board, plus a custom Braille table can be stored to the machine additionally. Click 'Properties' to open a dialog as shown in the picture below.
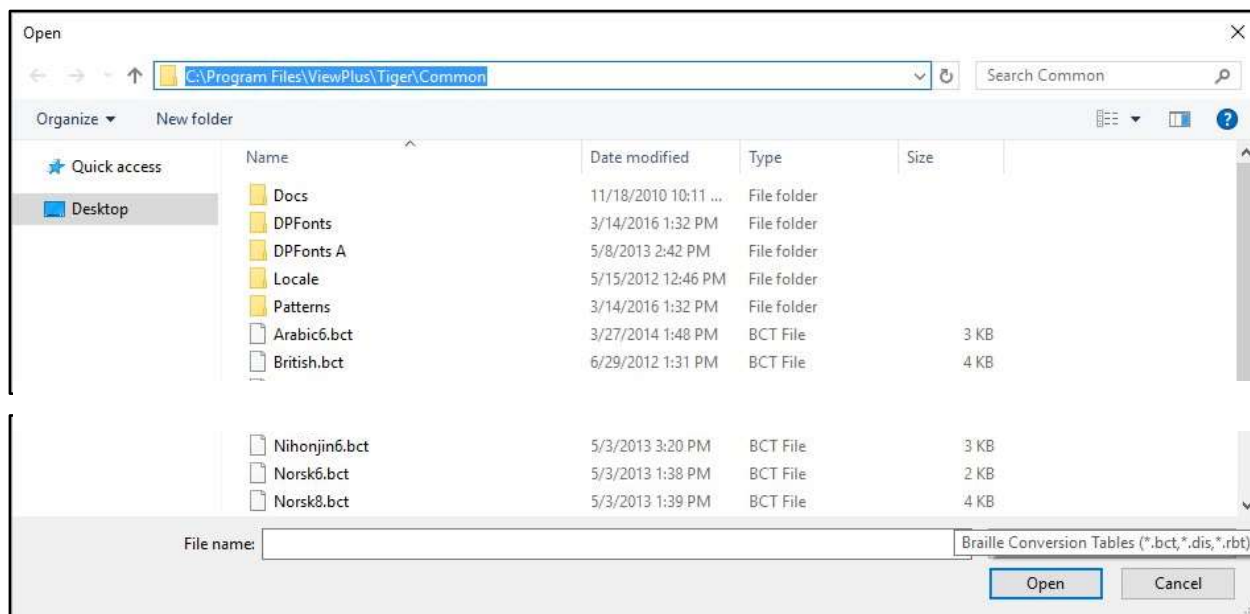

Shows Braille Table Properties in Device Settings

The dialog offers two basic functions. The lower section offers a display for built-in braille tables that the embosser provides, including the current custom table. Choose the Braille table name from the drop down list and you will get the table displayed like illustrated in the picture above.
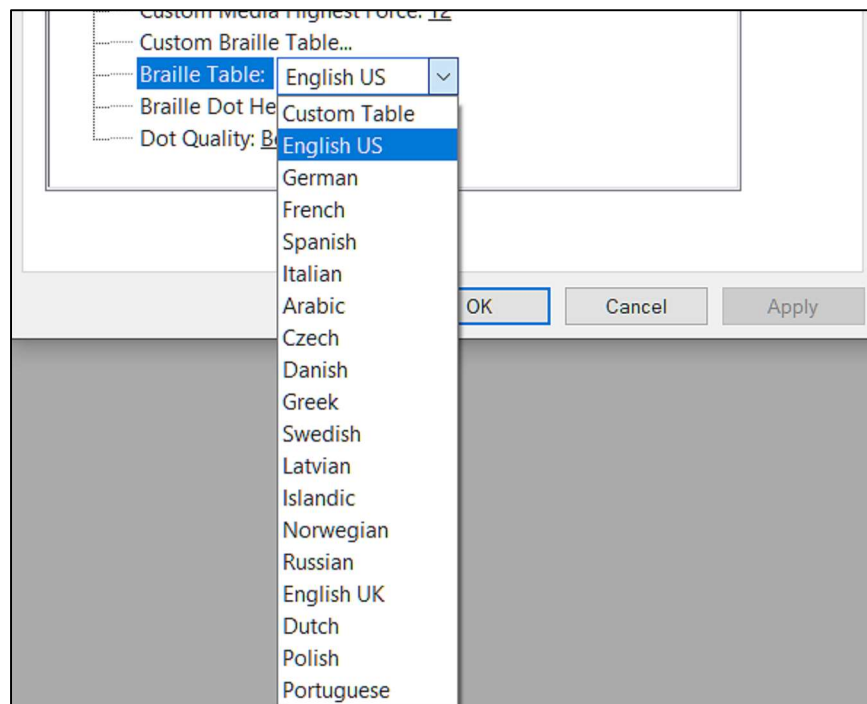
The second function of this dialog is provided through the button at the upper right. This will open a file browser dialog to choose a custom braille table that will be written to the printer. The braille table that was written to the printer last will be referred to as Custom table and stay on-board as custom table until another file is written to the printer, taking the place of Custom table.

The custom braille table can be chosen as file type *.bct, *.dis, or *.rbt. The file browser dialog will default to the location of the Braille tables being used within Tiger Software Suite. Choose one of those tables, or browse to the location of your own Braille table to be loaded to the embosser.

Shows Custom Braille Table file selection

Braille Table – From the drop down list, select which Braille table to use when printing. If the previously loaded custom table should be used for text to braille conversion, select 'Custom Table' here.

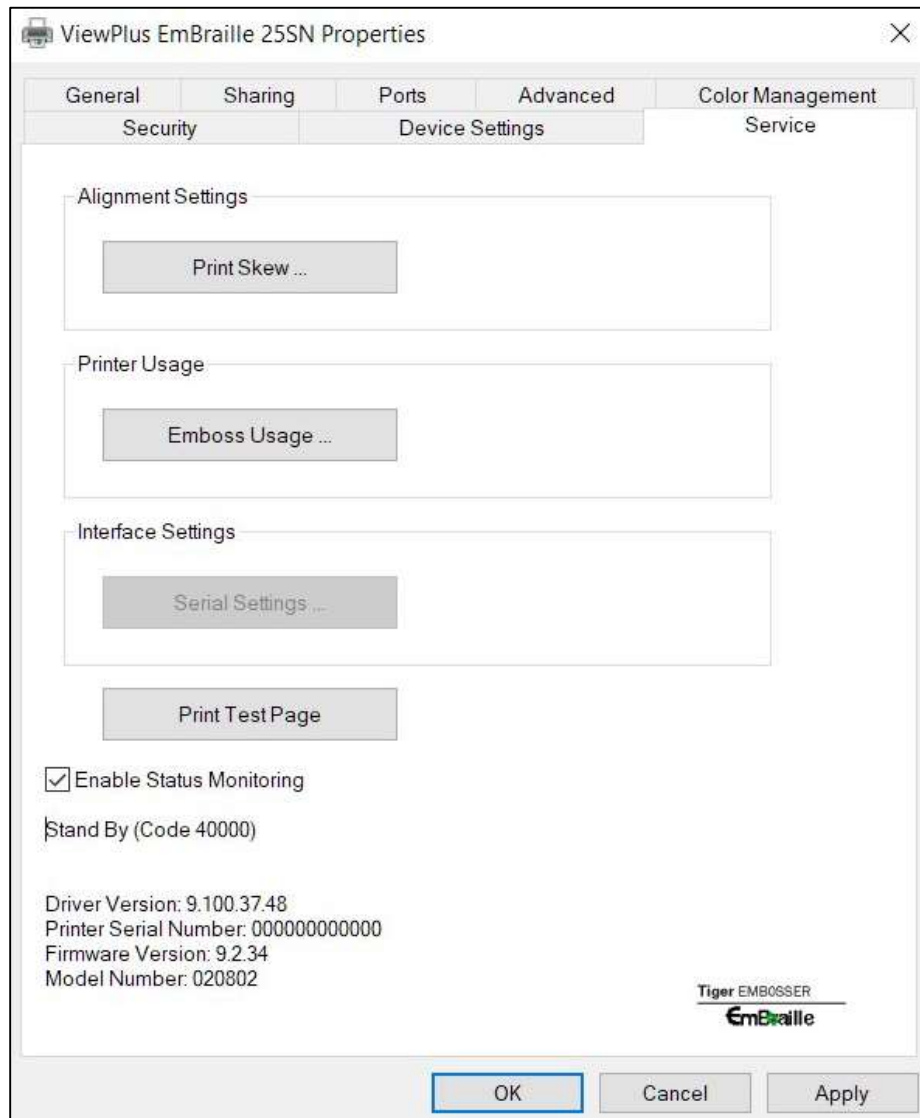*Shows selection of active Braille Table*

Braille Dot Height – Select 'Low', 'Normal', or 'High' to control how tall braille text dots will be embossed.

Dot Quality – Select between 'Standard', and 'Best' dot quality.

B.2 Service tab

The Service tab of the printer properties dialog window provides information about the connected ViewPlus EmBraille embosser at the bottom left. When contacting ViewPlus Support, please have the driver version, printer serial number, and firmware version available.
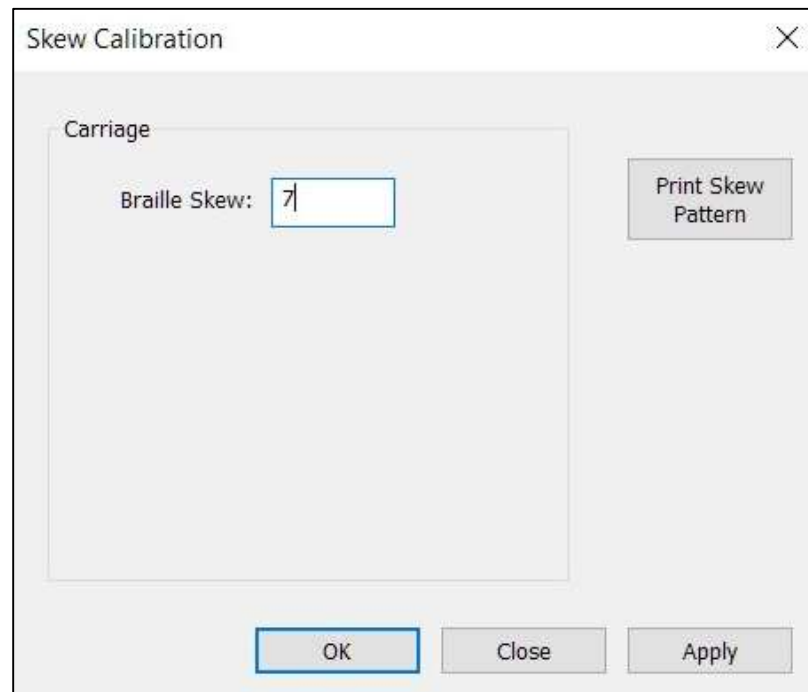Furthermore it provides several servicing functions for your VP EmBraille.

Shows Printer Properties Service Tab

- **Alignment Settings**

Print Skew – This button will open a dialog to perform calibration of the print skew. This setting ensures that dots are embossed in a straight line when placed vertically beneath each other, like dot 1,2, and 3 of a Braille cell. Print the test pattern and enter the number of the straightest vertical line, counted from left to right. This will be a number between 1 and 21.

Shows skew calibration dialog

- **Printer Usage**

Emboss Usage – This button will open a display window showing the percentage of remaining solenoid life, and the number of pages that have already been printed with the embosser.

- **Interface Settings**

This field is greyed out as the newer version of ViewPlus EmBraille embosser does not provide a serial connection port interface anymore.
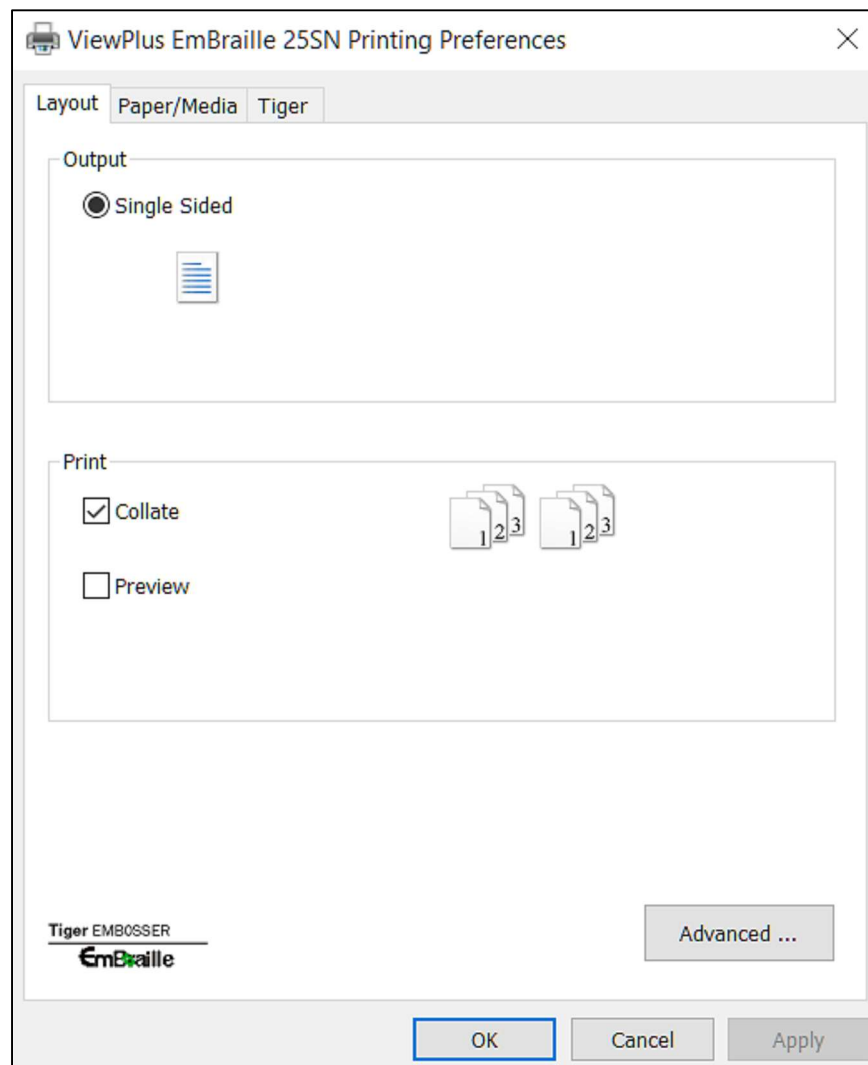
- **Print Test Page**

Prints a test page to exercise the EmBraille's embossing mechanism. Prior to using this button, make sure there is paper loaded in the embosser.

C. Printing Preferences

Printing Preferences contain settings for printing from Windows programs to your EmBraille, which will affect the output of individual print jobs. To open the printing preferences dialog, choose the 'Preferences...' button on the 'General' tab of the 'Printer Properties' dialog.

Another option to access printing preferences is to choose 'Printing Preferences...' from Window system control panel for 'Devices and Printers' from context menu of the ViewPlus EmBraille printer.

In addition, printing preferences are accessible next to printer selection from standard Windows print dialog when printing from most programs.

Shows Printing Preferences Dialog - Layout tab

The printing preferences dialog will show three tabs. See description of preference settings options from each tab in the following.

C.1 Layout tab

The Layout tab contains options pertaining to the page layout of the document to be printed.

- **Output**

Single Sided – You see only one option here, because EmBraille embosses single sided only.

- **Print**

Collate – When the collate box is checked and multiple copies of a document are printed, one complete document will be embossed at a time. If the collate box is left unchecked, all copies of each page will be embossed before embossing of the next page in the document begins.

Preview – If this option is checked, a screen preview of the embossed document will be shown in Tiger Viewer instead of sending the hard copy output directly. If you are satisfied with the preview, choose the print option again within Tiger Viewer to forward the print job to the embosser. Tiger Viewer also allows to save the output to a print file (PRN file), or to cancel the print action.

- **Advanced**

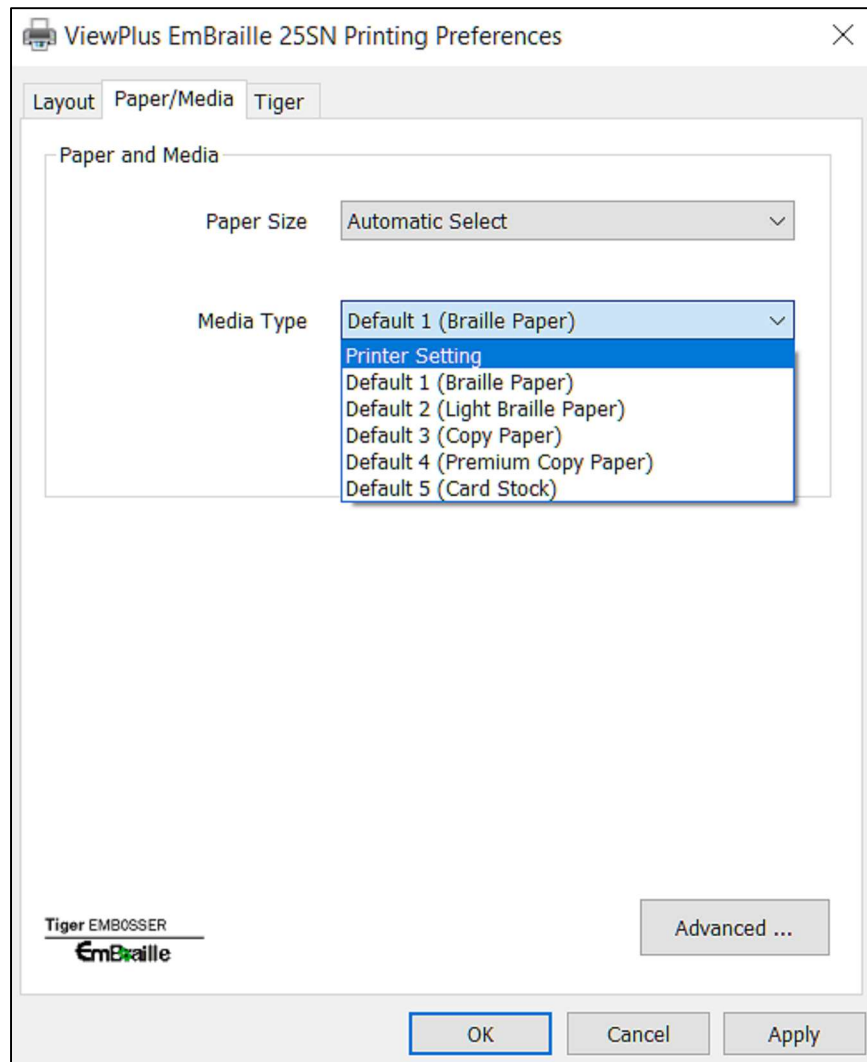This button brings up a dialog containing advanced user options. In this case it is only one option:

Orientation - Rotated Landscape: When checked, this option rotates pages in landscape orientation by 180 degrees. When using endless tractor paper, this option will help printing banner documents in correct order continuously across multiple pages.

C.2 Paper/Media tab

The Paper/Media tab contains options related to the type of paper or media being used for printing.

- **Paper and Media**

Paper size – If page layout from your application meets physical paper size of paper loaded to the embosser, setting 'Automatic Select' will be fine. 'Automatic Select' will allow the application you are printing from to set the correct paper size for you. If your physical paper size of material loaded to the embosser differs from applications page layout information, choose the setting here that matches your physical size of loaded print media (paper).
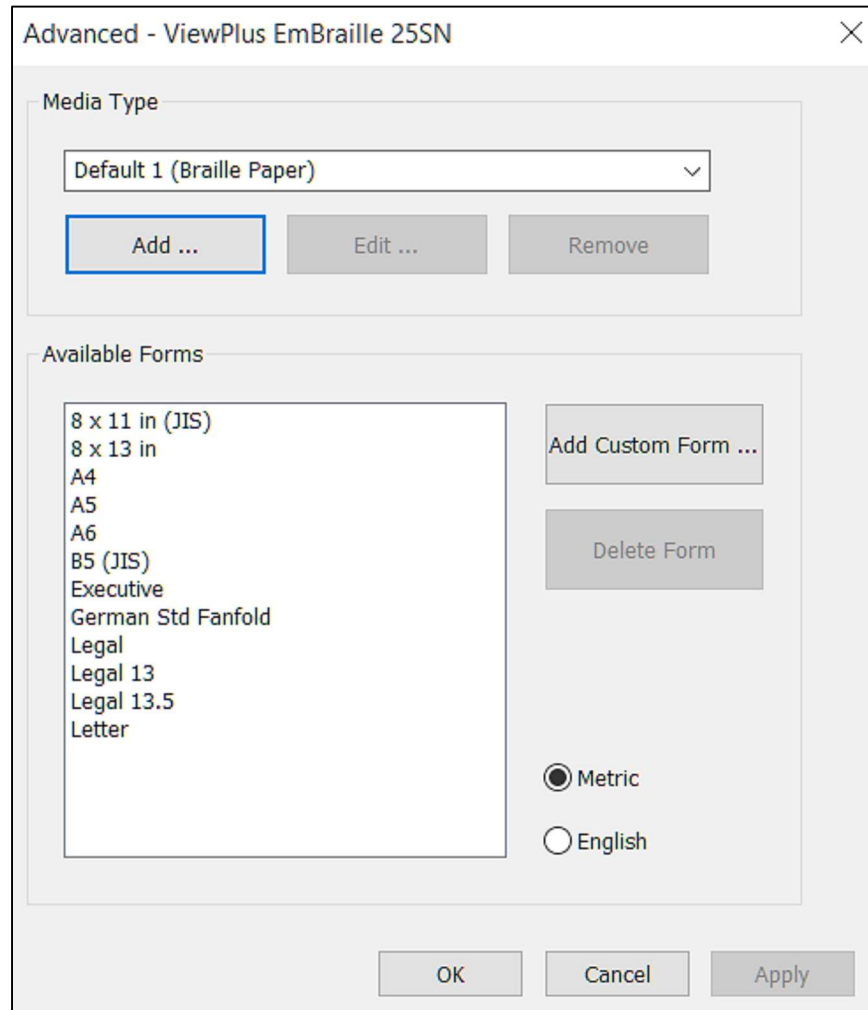
Shows Paper/Media tab

Media Type – Media Type setting defines embosser punch force being applied to form tactile dots into the paper (print media). The stronger the media, the higher the punch force needs to be to form readable dots. A list of presets for certain media types is available. Select the name of paper type that would describe your print media best. If you don't get satisfactory embossing results, adding a custom media type might be necessary.

See description of 'Advanced…' option below to learn about adding custom media types.

NOTE: WHEN CHOOSING MEDIA TYPE 'Printer Setting' HERE, THIS WILL REFER TO MEDIA TYPE SETTING FROM PRINTER PROPERTIES DEVICE SETTINGS TAB AS EXPLAINED EARLIER IN THIS DOCUMENT (section B.1 above).

- **Advanced …**

This button brings up a dialog containing advanced options to add custom paper sizes, or media type settings.

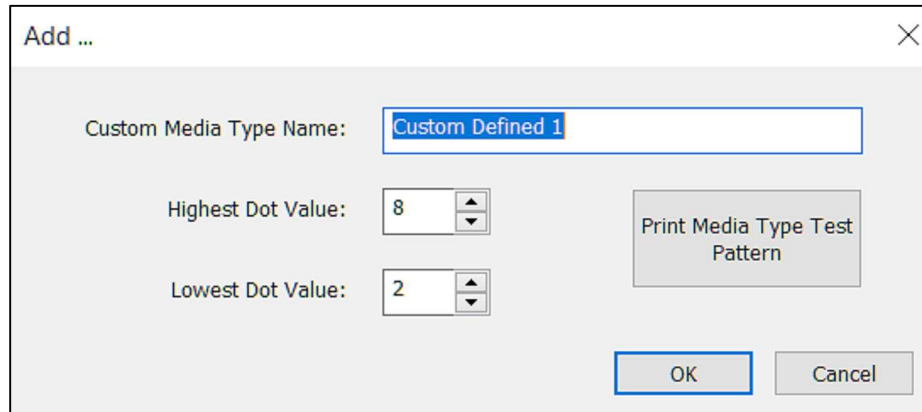*Shows Advanced options in Paper/Media settings*

- **Media Type**

Add – Use this button to start the process of adding custom media type. It will bring up yet another dialog. A default custom media type name will come up, but feel free to edit within name field.

Two values have to be specified, 'Highest Dot Value', and 'Lowest Dot Value'. These values will define the maximum, and minimum punch force to be applied to highest, and lowest tactile graphics dots. All other dot heights will be extrapolated from these two numbers.

To know which highest, and lowest force value will give good embossing results using your print media, use button 'Print Media Type Test Pattern' to initiate an embossing sample to be produced with your EmBraille. Make sure paper is loaded into the machine before initiating this test print.

The print will show a small section each for force values starting with 1 at the top, increasing as paper advances. You have two columns showing results of both hammering solenoids from the machines print head. Choose values for highest, and lowest dot height which would work for your media as seen from this test print. Enter these values in appropriate fields from the dialog and confirm with 'OK'.

Shows Add Media Type dialog

Edit – Selecting a media type from the drop-down list and choosing 'Edit...' will allow you to edit that media type. The same dialog will appear as from 'Add' option. Note: Default media types can not be edited.

Remove – Selecting a media type from the drop-down list and choosing 'Remove' will delete that media type from the list. Note: Default media types can not be removed.

- o **Available Forms**

Selecting a paper size from the list will show the paper dimensions in selected units of measure to the right.

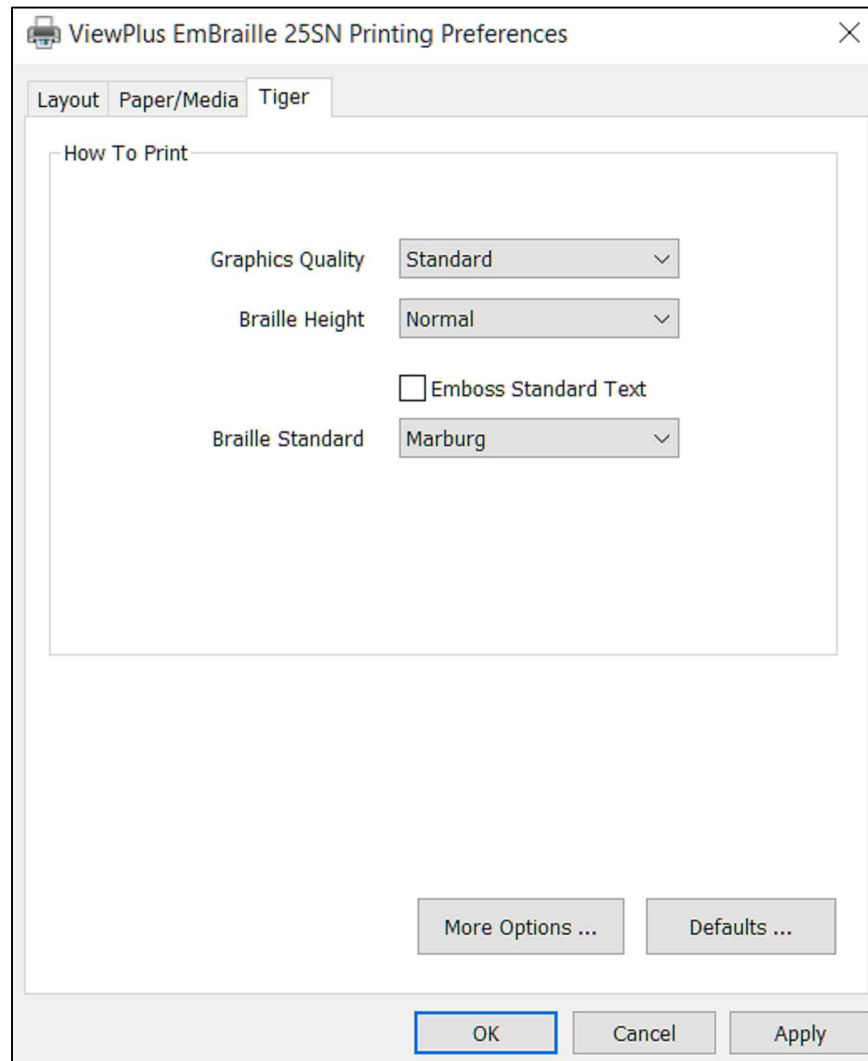**Add Custom Form… –** This button will allow you to define a new paper size. Note: Paper sizes wider than 9 inches may not be added.

Within the next dialog, specify the desired name for your new paper form, and dimensions in width and height given by numbers of selected units of measure, metric or English.

Delete Form – Custom forms can be deleted again using this button after selecting corresponding form name in the list.

C.3 Tiger tab

The Tiger tab contains controls for Braille and tactile graphics print output as follows.

Shows Tiger Tab

- **How to Print**

Graphics Quality – Select 'Draft', 'Standard' or 'Best'. Printing with draft graphics quality will place dots in a square grid versus best quality will place dots with 100 dpi resolution as close to each other as possible. Best quality will yield highest possible accuracy on embossed shapes and outlines, but will take most time to print.
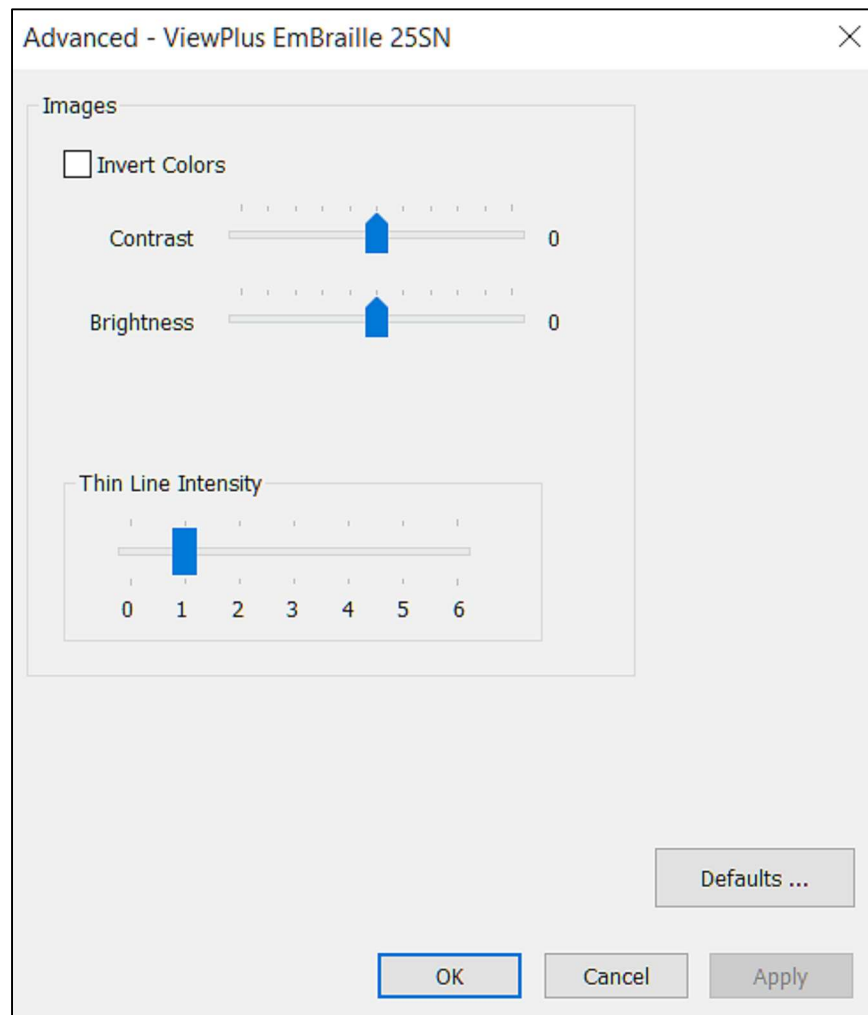
Braille Height – Select 'Low', 'Normal' or 'High' for Braille dot height. Normal dot height sets the Braille dot at same height like the highest graphics dots. Adjust the Braille dot height higher or lower to suit the reader.

Emboss Standard Text – When this is checked, standard text that is not translated to Braille will be embossed as image of the characters. This is helpful in combination with large font size to create raised letters that can be recognized on touch. When doing so, it is recommended to change the font color to grey instead of black since the paper might be getting torn embossing solid black.

Braille Standard – Choose from five different standards to define dot spacing for Braille text.

- **More Options …**

This button brings up a new dialog with following options.

Shows the More Options dialog window

o **Images**

Invert Colors – Check this option if you want colors to emboss inverted, meaning lighter colors will emboss in higher dots, and darker colors will emboss in lower dots.

Contrast – The default setting is 0. The range is from -100 to 100. Increasing the contrast increases the dot height difference in respect to the color difference that the dots refer to. So the dot height difference of two similar colors increases.

Brightness – The default setting is 0. The range is from -100 to 100. Increasing the brightness can be useful to increase the intensity of all the colors. This option is most often used with images in which lines are thin and light.

Thin Line Intensity – In general, line thickness should be at least 1 ½ pt on your source image. If lines in graphics are too thin to emboss correctly, try using a higher thin line intensity by sliding the indicator to the right.

- **Defaults …**

The 'Defaults…' button will restore all settings to their factory default values after confirmation in additional message pop-up that follows.

V. Operator Panel

A. Functions

(The buttons are described from left to right order.)
- **Tear Off –** This button only has an effect when using the tractor feeder. When a print job finished, this button can be used to move continuous paper forward to the correct position for tearing off the printed page(s) at the perforation between sheets. Pressing this button again will then move the paper back to the top of form position for the next print job.

- **Reverse/Down –** Only in online mode, pressing this button will move paper one Braille line at a time forward. When holding down this button in online mode, the embosser will continuously move the paper forward.

- **Load/Eject –** When paper is loaded, pressing this button will eject the paper from the paper path. In single sheet mode this means moving forward until the sheet is ejected. In tractor feeding mode this means retracting the paper out of the path, but where it is still contained by the tractor locks. When no paper is currently loaded in printing position, pressing this button will load paper from currently selected path to the starting print position.

- **Online/Cancel –** This button switches the embosser between the online and offline states. Pressing this button during printing will cancel the current print job. The embossing will stop and the paper will be advanced to end of page.

  The Online/Cancel button will also initialize the printing of an internal test page if the button is being held while turning power on for the embosser. Hold until the carriage moves. Make sure paper was loaded in print position before initiating the test page. No data connection to a computer is required to print the internal test page.

B. Status Lights and Alerts

There a four lights indicating status of the machine. In some cases the status is also indicated by some beeping sound generated by the embosser.

- **Tear Off (2 lights) –** Flashing of these lights indicates continuous paper is at tear-off position. If the left light is on, this indicates data is in the input buffer, but not printed yet. If the right light is on, this indicates paper is loaded at top of form to start the next print job.

- **Power/Paper Out –** This light is on when the embosser is powered on. This light is flashing to indicate the embosser is out of paper, when there is no paper loaded for printing. If this light is flashing, plus there is a beeping sound, a paper jam is indicated.

  The paper out status will be accompanied from some beeping sound, high-low.

  To resume printing: When using tractor feeder: Load paper and press button 'Load/Eject' to still start the print job. When using single sheet feeder: Load paper and wait. The printer will detect the paper within the single sheet feeder automatically and resume printing.

- **Online –** This light is on when the embosser is online and ready to receive data from the computer. When this light is off, the embosser is offline and will not receive any data from the computer. When this light is flashing the embosser is busy processing data, and cannot receive any additional data.

  Switching the embosser online/offline will be accompanied by some beeping sounds, high-low-low when switching offline, high-high-high when switching online.

VI. Paper Handling

A. Single Sheet and Tractor feed handling

The ViewPlus EmBraille provides two methods of paper feeding. Either one single sheet of paper can be inserted into the sheet feeder tray, which is also called friction feed, or continuous paper with tractor strips can be inserted into the tractor feeder towards the back of the machine.

The following picture shows the location of the Paper Select Lever on the embosser. This lever is used to switch between single sheet feeder mode and tractor feeding mode.
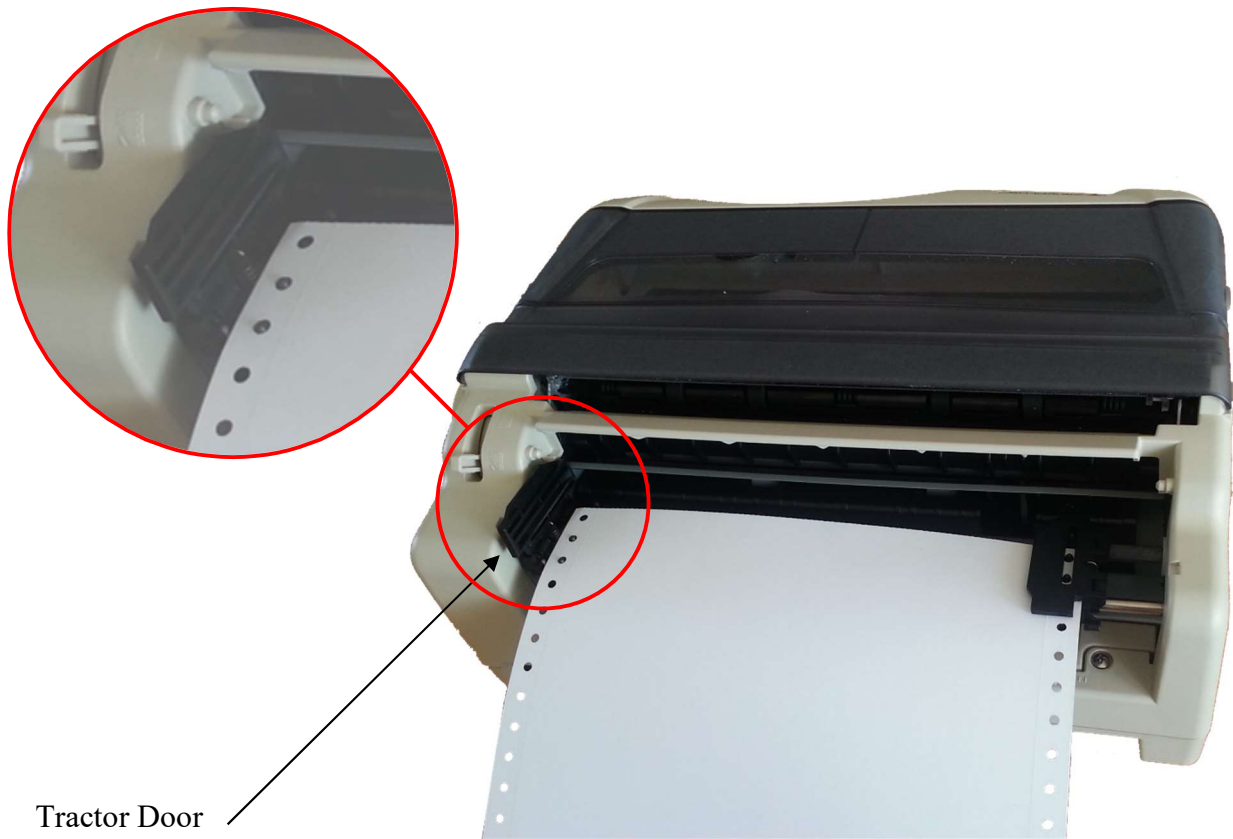

Paper Select Lever

Shows paper select lever

Single sheet feeding

Left Paper Guide

Single Sheet Feeder Tray in upright position

Right Paper Guide

- Move the Paper Select Lever on the right of the printer all the way forward towards the front of the embosser.
- Set the single sheet feeder tray upright. It should lock itself into its mounting. Align the left paper guide with the mark on the left of the single sheet feeder tray. Adjust the right paper guide to the width of the paper used.
- Insert a sheet of paper. Make sure that the bottom edge of the paper engages snugly with the platen to activate the paper sensor lever.
- The paper should advance automatically to the print position. The embosser is now ready to emboss in the online state.
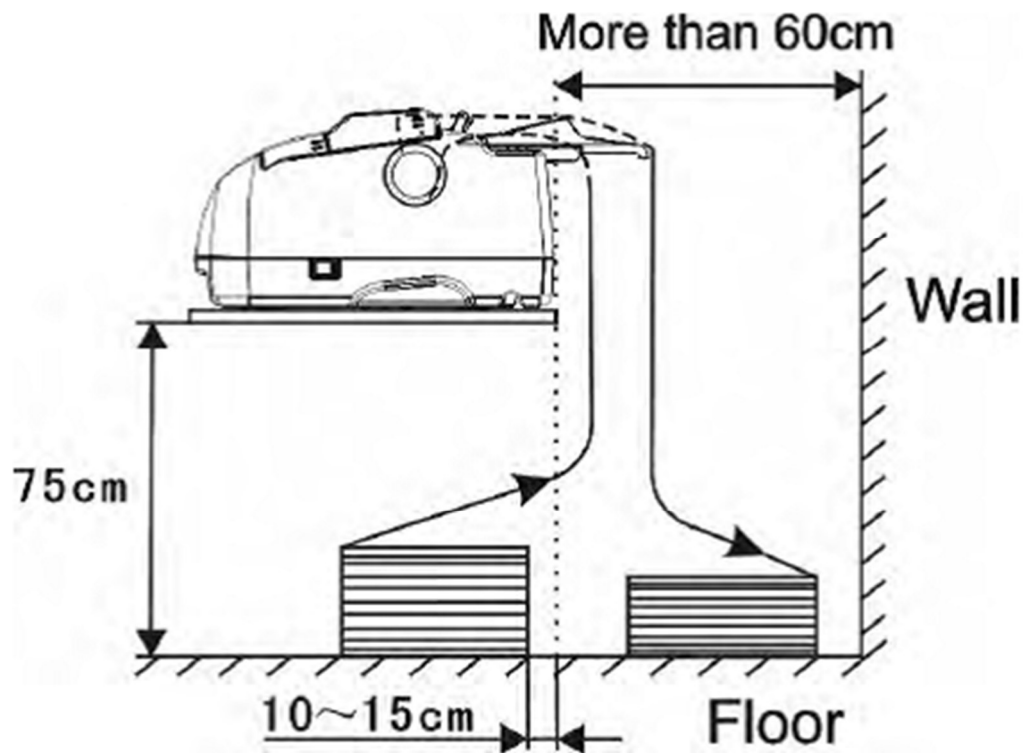
Tractor feed handling

Tractor Door

Shows VP EmBraille tractor feed mechanism

- Move the Paper Select Lever on the right of the printer all the way toward the back of the embosser for tractor paper feeding.
- Raise the tractor doors and fit the first 3 paper holes onto the left tractor pins. Close the left tractor door. In the same way, install the paper on the right tractor.
- With the left tractor adjusted to the left side of the embosser, adjust the right tractor to the width of the paper until the paper is flat. Do not stretch the paper too taut. Push the right lock lever down to secure the right tractor in place.
- Press the Load/Eject key to load the paper to the starting print position. The embosser is now ready to print in the online state.

B. Continuous Paper Placement

The ViewPlus EmBraille provides a tractor paper feeder in the back of the machine. Please follow the instruction below to ensure proper paper input and output.

Shows the continuous paper placement cycle

- Place the embosser on a solid base. The embosser should be at least 75cm above the paper supply.
- Left and right positioning: The direction of continuous paper should be parallel with the paper guide.
- Front and back positioning: The distance between the rear of embosser and the wall should be more than 60 cm. To avoid a paper jam, the distance between the continuous paper and the edge of desk should be at least 10cm.

C. Paper Jams

There are several possible reasons for paper jams in the main body of the embosser.

- The tractor strip of continuous feed paper is not locked in with the tractor locks correctly.
- Paper feeds in tilted, which is possible with both feeding methods.
- Or the paper is catching on some edge or some debris within the paper path.

To check and clear paper jams please follow the steps below.

- If you notice some paper jam, turn the machine off.
- Release paper from the tractor feeder if there is any.
- Try to pull paper out. To facilitate this action, turn the knob at the same time.
- Open the lid of the embosser and check if there is any paper left visible in the machine. Try to remove if there is still paper. Also turn the knob to see if the paper will be transported out by friction.
- If all paper is cleared, close the lid again.
- Make sure paper is inserted and secured by the tractor locks correctly for the next print job.
- Turn the embosser back on, and reprint the document.

VII. Braille, Translation and Printing

In general, the embossing technology will create a tactile representation of the screen image where darker colors will result in higher tactile dots and lighter colors in lower tactile dots.

Text will only print in Braille after it has been translated to Braille code and can be recognized as Braille text from the printer driver. In Windows applications, if the text is recognized as true text and not embedded as image, a non-contracted Braille output can be created by simply formatting the text to a Braille font as further described under B. below.

A. ViewPlus Tiger Software Suite

Within MS Office Word, and Excel the ViewPlus Tiger Software Suite (TSS) provides direct tools for text to Braille translation in numerous languages and contraction grades. TSS includes easy translation of charts and graphs in MS Excel and provides further tools to easily create and edit tactile graphics originating from other Windows applications.

Please visit https://viewplus.com/product/tiger-software-suite/ to find further information about the ViewPlus Tiger Software Suite solutions, including the TSS user manual.

B. Fonts

Braille and Tiger screen fonts are Braille fonts that install with the installation of the ViewPlus embosser driver. They can be chosen from any Windows program that includes Windows font selection. But text has to be handled like true text, and not show as embedded image, which is the case in some PDF Editor programs, for example.

Braille and Tiger screen fonts appear as standard text characters on screen, but emboss in Braille dot patterns. When applying these fonts, each print character is converted to one Braille character that corresponds to the ASCII code of that print character. There will be no contractions, or translation of symbols in the Braille output.

It is very important to use the correct font size for the correct dot spacing to be printed for Braille fonts. For 8 dot Braille fonts, like 'Computer' Braille, the point size needs to be set to 43. Other Braille fonts, indicated through a '29' in their font name, need to be set to point size 29.

Text characters, written in standard print screen fonts, like 'Times New Roman', or 'Arial', will not appear on embosser output, unless 'Emboss Standard Text' option is checked within Tiger tab of printing preferences. In this case, letters will emboss in shapes of print letters, but font size has to be at least something like 40 on Arial font before shape of print letters can be determined in tactile representation on embosser output.

C. Math and Braille

Create braille math documents using the Tiger Software Suite and MathType from Design Science. Insert text, graphics and math equations directly into a Microsoft Word document and translate to braille in one easy step. Equations will appear in both braille and ink allowing sighted readers to follow along. More information about braille math can be found on the ViewPlus website.

D. Printing

Once the printer driver is installed and printer properties are accessible, you are ready to emboss from any Windows program. For a general printing test out of MS Office Word follow these easy steps:

- o   Open the document to be printed in MS Word.
- o   Open the program's File menu and choose Print.
- o   On the Print interface, make sure the VP Delta is selected. The default printer properties settings should be fine, but feel free to select printer properties and check selections within printer properties dialog, like Tiger printing options. Click OK on printer properties dialog when you are finished.

- o Please note that any printing options showing within print interface of MS Office Word will have priority over printer properties dialog settings if they don't match.
- o Click OK, or Print to start the print job.
- o When the printer is finished, it will eject the paper.

In general, ViewPlus printers follow the principle "What you see is what you get". The screen image is converted to tactile resolution and colors are converted to different dot heights on embossed output, where darker colors are represented in higher dots (black = highest dot), and lighter colors are represented in lower dots (white = no dot).

A knowledge base, and tutorials on how to use ViewPlus embossers with various applications can be found under https://viewplus.com/viewplus-support/

VIII. Software Packages

For pricing, ordering, and additional information on any of the following products consult the ViewPlus website www.viewplus.com or your ViewPlus representative.

A. Software Packages

- **Tiger Software Suite (TSS)**

  The ViewPlus Tiger Software Suite (TSS) is the complete solution for producing Braille and tactile graphics by harnessing the full power of MS Word and Excel. The press of a button automatically converts and formats documents that were originally created for an ink printer.

  Additionally, the Tiger Software Suite offers tools to ease creation and editing of tactile graphics.

- **MathType by Design Science**

  MathType is an Add-in editor in MS Word for math equations. Equations can be entered using MathType editor and directly translated to LaTeX, Nemeth, or other Braille math using the ViewPlus Tiger Software Suite.

- **Audio Graphing Calculator (AGC)**

The ViewPlus Audio Graphing Calculator (AGC) is a self-voicing Windows application that provides access to scientific calculation and graphing for people who are blind or dyslexic. It includes a standard on-screen calculator and a powerful function evaluator as well as the capability of computing and viewing functions visually and as an audio plot. The audio tone plot gives AGC users access on a time scale comparable to access by people without print disabilities to visual plots on standard graphing calculators.

IX. Training, Warranty, Maintenance and Support

For additional information about any of the below, please don't hesitate to consult the ViewPlus website www.viewplus.com or contact your ViewPlus sales representative.

A. Training

ViewPlus provides two training methods

1) Video tutorials/documentation downloadable from our website, and
2) Live on-line training sessions with a ViewPlus Support Specialist.

B. Maintenance

It is important to follow the safety instructions as stated under I.C.

Dot quality should be monitored; poor alignment of the hammer tips to the receiving dyes can cause permanent damage to the ViewPlus embosser.

Updates can be downloaded from the ViewPlus Technologies website. Please check the website occasionally for our latest developments, too.

C. Support

In addition to support material on our website please do not hesitate to contact us for your technical support questions:

- o Contact your ViewPlus embosser sales representative if you did not purchase directly from ViewPlus Technologies

- o   E-mail to support@viewplus.com, or
- o   Call the ViewPlus support hotline at +1 (866) 836 2184, or the ViewPlus Technologies office at +1 541 754 4002 (Pacific Standard Time Zone).

D. Warranty

For information on your product warranty, please visit our website and select the warranty details link under category support. Direct link: https://viewplus.com/viewplus-support/warranty-details/

Extended Warranty

For extended warranty options please contact your ViewPlus representative, or the dealer the embosser was purchased from.