DaVinci Pro HD OCR

enhanced vision
A VISPERO™ BRAND

REVERSI

TIC TAC TOE

TMEMORY GAME

User Manual
Games Addendum

Games Addendum

Effective as of 11/30/18 DaVinci Pro has been updated with a new "Games" feature. This represents a substantial change to the organization of the DaVinci Pro Menu.

Units that have software version 01.01.274 should reference this addendum which will serve as a supplement to your existing User Manuals version X1-X8. Please review this addendum side-by-side with your previous User Manual for best results.

This software update represents one of our most ambitious feature rollouts and product improvements to date. We hope you enjoy this new addition to your DaVinci Pro!

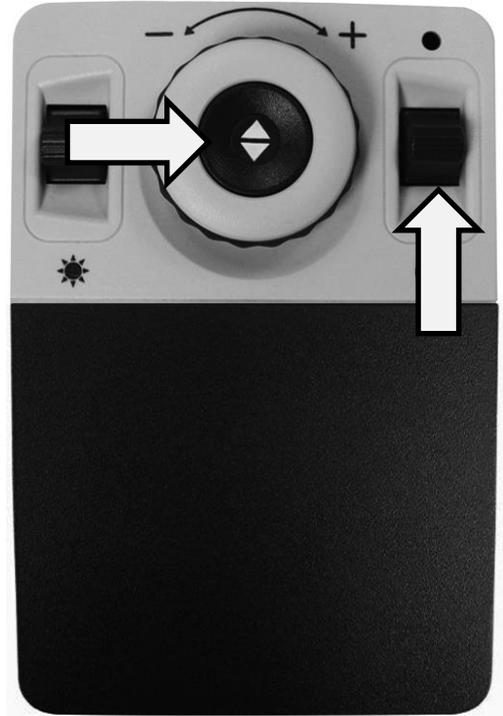**Product enhancements and revisions are an integral part of what we do here at Enhanced Vision. Please visit -**
http://www.enhancedvision.com/low-vision-product-line.html
and select your Enhanced Vision Product. You will find the most up-to-date version of the User Manual at the bottom of the page

What's new with DaVinci Pro?

New Menu Items & Consolidation (Pg38):

When you enter into the System Menu by pressing the "[Mode Up] and [Find/Enter]" on the Control Console you will be able to review the new changes. "Games" replaces the "User Settings" sub-menu and the User & Product Settings have been consolidated into the "Settings" sub-menu.

1. **Introduction**
2. **Games (Previously User Settings)**
3. **Settings (Previously Product Settings)**
4. **Factory Settings**
5. **Library**
6. **Help**
7. **Exit**

Introduction	Games	Settings
Help	Library	Factory Settings

EXIT

GAMES

The Games sub-menu contains all of the various games you can play. You will be presented with the "Games Carousel" which can be navigated by using the [Zoom Wheel] on your Control Console. A choice is confirmed by using the [Find/Enter] Key. All of the games require a normal USB Mouse connected to the rear port of your DaVinci Pro in order to play. *You will be prompted to connect one prior to starting any game if you have not done so.*

List of games:

- Sudoku- A popular logic based number puzzle.
- Solitaire- The classic card game.
- Free Cell- A Solitaire game with variant rules.
- Reversi- Strategy game played against a computer opponent on an 8x8 grid.
- Tic-Tac-Toe- Played against a computer opponent, be the first to put 3 x's or o's in a row to win.
- Simon Memory- Test your memory skills by remembering Colors and Tones in an ever expanding sequence.

Sudoku

Solitaire

Free Cell

Consolidating the Settings Menu

Settings (Pg 40)

We have combined the User and Product settings to create the simplified "Settings" Menu. This contains all of the configurable options to fine tune your user experience which is divided into 11 Sub-Menu options. Use [Find/Enter] Key & [Zoom Wheel] to navigate and select while in these menus.
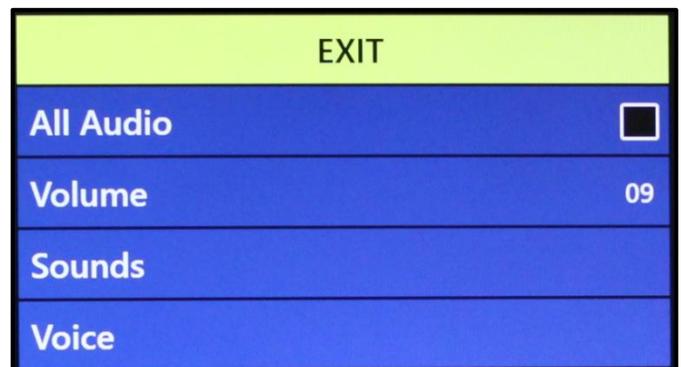
1. Audio
2. Display
3. Time & Date
4. OCR Text Recognition
5. Set System to 50/60hz
6. Extended Zoom Levels
7. Languages
8. Auto-Language
9. White Balance
10. Screen Saver
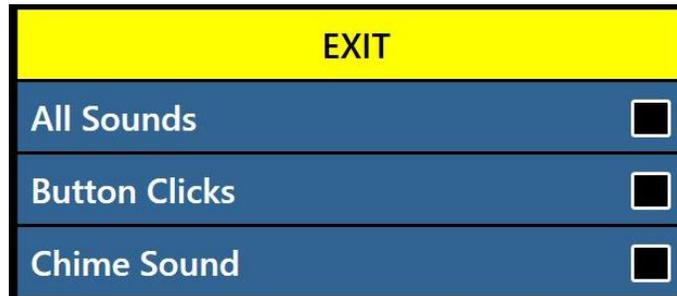11. Focus Locked

Adjusting Audio Settings

The Audio Submenu allows you to set your audible features and preferences. Audible features consist of Sounds and Voices. Sounds include hardware and mechanical sounds such as button clicks and chime sounds. The Audio menu has 4 options which are shown below:

1) All Audio (ON/OFF) –The user can enable or disable all audible sounds and voices quickly. When this is toggled on all the default voices and sounds will be available and when it is toggled off all sounds will be turned off and Audio Submenu options will be greyed out.

2) Volume (1-10) – sets the default volume level for all Audio (1 to 10). User will use volume wheel on the console to increase or decrease the volume to a suitable option. Audio feedback will be in the form Volume 1, Volume 2, etc. Pressing the center of the Volume wheel will reset to default volume.

3) Sounds – This Sub-Menu has 3 items where you can turn on or off the following:
   a. All Sounds (ON/OFF) – This Enables or Disables Button Clicks and Chime Sounds.
   b. Button Clicks (ON/OFF) – This Enables or Disables the Button Click Sound exclusively.
   c. Chime Sounds (ON/OFF) – This Enables or Disables the Chime Sound exclusively.

EXIT	
All Sounds	■
Button Clicks	■
Chime Sound	■

4) Voice – user has the option to turn all voice off, speed and other configurable options.
   a. All Voices (ON/OFF) – Enables or disables all of the voice prompts on the system.
   b. Menu Voice (ON/OFF) – Enables or disables all of the voice prompts in the system menus.
   c. Message Voice (ON/OFF) – Enables or disables voice prompts for all of the On-Screen messages that display.
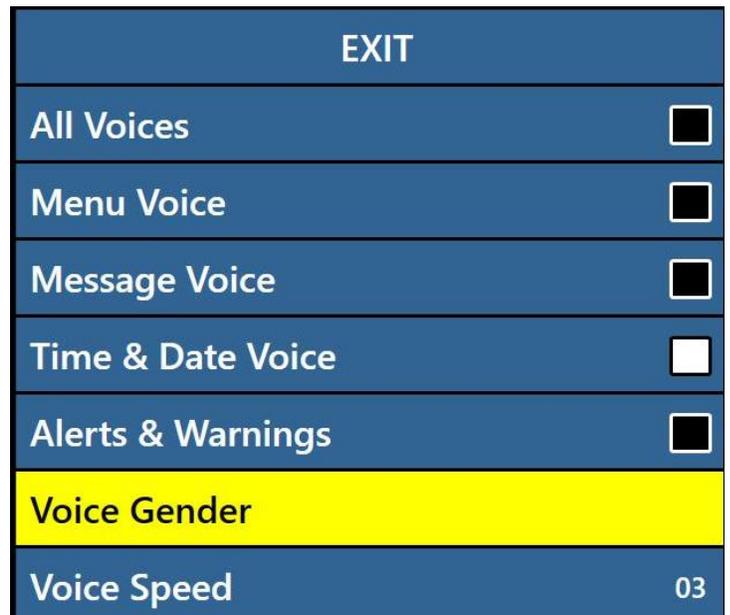   d. Time & Date Voice (ON/OFF) – With this option you can opt to have the system announce the current date and time when you enter into the menu.
   e. Alerts and Warnings include system TTS messages that warn user of certain system conditions such as "No files Found" or "Document Saved". It also

EXIT	
All Voices	■
Menu Voice	■
Message Voice	■
Time & Date Voice	☐
Alerts & Warnings	■
Voice Gender	
Voice Speed	03

   includes OCR messages such as , "Please align your document inside the frame".
   f. Voice Gender (Male/Female) – Allows user to select the gender of the annunciations voice if it is available in the selected language. If available you can toggle this choice, otherwise only one selection will be displayed.
   g. Voice Speed (Speed Level) – Allows user to select from various voice speeds. Pressing the center of the Speed wheel will reset to default value during OCR Readback Mode.

Display Features

The User can select their preferred display and visual settings using this menu. Display Settings control all graphical user interfaces, icons and visuals that can be viewed on DaVinci Pro and consists of the following options:

1) Screen Messages (ON/OFF) – these are all system and software notifications, warnings and alert messages that are displayed to inform the user of various conditions such as when lights are turned on "Lights ON" or when saving a file, "Saving…", Export Complete, Factory Settings Restored etc. The user can turn all such display messages ON or OFF.
2) Brightness (1-10) – user can select the preferred Brightness level for the LCD display and User Interface.
3) Icons & Visuals – Allows user to Enable or Disable the display of icons such as lights ON/OFF icons or panning icons when in Preview/live or Freeze mode.
4) Line & Window Markers – Enables or disables Vertical or Horizontal Window Markers. These can be used to better focus on segments of text while you are in CCTV Mode.
5) Preferred Color Modes – This option allows you to select the preferred color modes that are cycled through utilizing the [Mode] key on both the control console and device Front Panel. The device comes pre-loaded with several color defaults but these can be changed according to your preference.

Time & Date Settings

DaVinci Pro remembers the current time & date once it is set.
To set the current time/date:

1) Enter the Menu by pressing the [Mode Up] and [Find/Enter] buttons on Control Console.
2) Rotate the [Scroll Wheel] clockwise until 'User Settings >> Time & Date is highlighted.
3) Press [Find/Enter] to select 'Time & Date' sub menu.
4) Rotate the [Scroll Wheel] clockwise until 'Set Time & Date' is highlighted.
5) Press [Find/Enter] to select 'Set Time & Date.
6) Rotate the [Scroll Wheel] clockwise or counter-clockwise to change the setting and then Press [Find/Enter] to continue through Hours, Minutes & Date etc.
7) Repeat steps 5 & 6 until all of the time/date values are set correctly.

Please Note: You can skip setting the clock at any time by pressing [Mode Up] which will allow you to access the other clock features instantly.
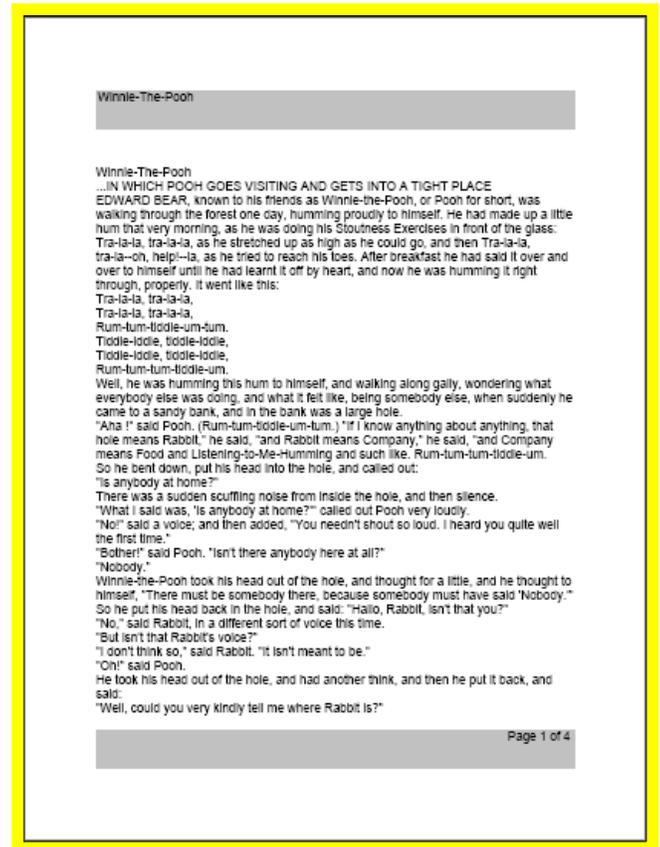
Rotate the [Scroll Wheel] to highlight the option and press the [Find/Enter] (toggles enable/disable).

With 'Exit' highlighted press [Find/Enter] to return to normal operation.

DaVinci Pro will announce the current time if it is enabled in the audio settings and will be available through the appropriate Screen Saver Option located in the Product Settings Menu.

OCR Text Recognition Settings

1) **Guide Frame** – This is the color of the boundary while in OCR Mode. It is used to help you position your text before an OCR Scan.

2) **Zone Identifier** – The scanned text in your document is broken up into blocks called "Zones" this determines if you want these zones identified with Rectangular boxes or Numbers.

3) **Zone Boundary Color** – This determines the color of the Zone Identifier features mentioned above.

4) **Reading Highlight** – This is the color of the box around the word currently being read in OCR readback Mode.

5) **OCR Tune** – This determines the processing sound that occurs after an OCR Scan. You have 3 options to choose from.

6) **OCR Attributes** – This tab allows you to optimize your OCR Processing. You are given two choices between Faster Processing Times or Higher OCR Accuracy depending on your preference.
   a. "High Performance" uses a processing method designed to provide a Good OCR Result relatively quickly.   If your target document is using Normal Fonts and is not very complex this method will suit your needs.
   b. "High Precision" is designed to achieve more accurate results but will do so more slowly when compared with High Performance Mode.   If you are concerned with overall accuracy of your OCR Scan results or have a complex document with smaller fonts it is recommended that you use High Precision.

7) **OCR Modes-**
   a. Full Page Picture Mode- This mode displays the actual picture of your OCR scan and organizes them into "Zones".   This is the classic DaVinci Pro Setting.
   b. Full Page Text Mode- This mode displays a digital text version of your OCR Scan with pictures taken out. It fully covers the screen in a column format.
   c. Single Line Text Mode- This mode displays a digital text version of your Ocr Scan with the pictures taken out. It covers a single line on the screen and features the largest text magnification level.

Set System to 50/60 Hz

This configures the light frequency for your locale and the environment in which you are using DaVinci Pro. If you notice any visible flicker in the live image you may need to adjust to 50 or 60.

Extended Zoom Levels

The user has the option to select extended magnification levels which adds the 77.0x magnification range. This becomes the new Maximum Magnification level on the device.

Languages & Setting the Primary Language (English-US by default)

This menu sets the primary language for *DaVinci Pro*. All the text and prompts will be displayed in the selected language. To change your Language Preference follow these steps.
1. While in the User Settings Sub-Menu Press "[Mode Up] and [Find/Enter]" located on DaVinci Pro Control Console to enter the Menu.
2. Turn the [Zoom Wheel] clockwise until "Languages" is highlighted.
3. Press the [Find/Enter] button to select the "Languages" sub menu. To select an option, turn the [Zoom Wheel] to highlight the desired language. Press the [Find/Enter] button to select that option. A black box next to that option indicates that the option is ON.

Auto Language

The Auto Language Detection feature will allow you to select options from a list for the purpose of allowing multiple languages to be automatically detected and read without having to reset the language frequently in the menu when utilizing our OCR Feature.

This feature works by identifying portions of a particular text in a document and then recognizing them with the appropriate language specific characters. Once processing is complete Text-To-Speech begins in the desired language from those that are enabled in the Auto-Language list.

The Auto-Language feature is recommended for those who read multi-lingual materials or swap between a variety of languages frequently. If you only tend to read in a single language it is recommended that you leave this feature disabled.

White Balance

This option configures the image temperature and affects the viewing characteristics of the CCTV Image.   There are 4 options:

- Auto – Automatically adjusted image for your environment.
- Normal – Vibrant True Color.
- Warm – Sets the image for Warmer tones, Deeper Red, Yellow, Etc.
- Cool – Sets the image for Cooler tones, Darker Blue, Purple, Etc.

Screen Saver

The screensaver sub-menu has 5 options you can configure. You can adjust the overall screensaver time or toggle on which type of Screen Saver you would like to view. The screen saver is activated after a certain time interval where the device is not in use.

- Set Screen Saver Time - This option configures how long the device must remain idle until it enters into Screensaver Mode.   The Options are 5, 10, 20 & 30 minutes.
- Off – This enables or disables image display on the screensaver.
- Company Logo – This enables or disables the Enhanced Vision animated Logo as a screensaver.
- Pictures – This enables or disables the system using your saved pictures and cycling through them as a screensaver
- Default – This enables or disables the system utilizing a pre-selected gallery of high quality images as a screensaver.
- Clock- This enables a time & date display just like a digital clock.

Focus Lock

DaVinci Pro is equipped with a Focus Lock feature. You may lock the focus at a specific distance for optimal viewing at a fixed location. This feature is turned on and off via the product settings menu or optionally by pressing in the right and left edge console wheels in a "Pinch" maneuver. Please note that once you turn on the Focus Lock the focal distance will remain locked so if you reposition the camera or some material in the FOV it may not be in optimal focus automatically. Also note that one Auto Focus operation is performed after zooming even when Focus Lock is engaged.

Control Console Shortcut for Auto Focus/Focus Lock:

Press and hold the [Marker Wheel] and tap the [Volume Wheel] simultaneously or Press and hold the [Volume Wheel] and tap the [Marker Wheel]

(Right EDGE of Console)   *(Left EDGE of Console)*