Smart Book Scanner

VisualTable

User Guide

The specifications and information herein are subject to change without notice.

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I_Introduction

1. Components

- Main Body

- Common components

| Power adapter | Power cable | USB cable | Installation CD |

Installation CD
(CD: Included full manual
CD cover: OCR license
serial number)

Quick Start Guide /
Installation Guide

2. A quick look at the hardware

1) Front

<Direction of the Book complying with the initial setting>

POWER: Power on & off
AUTO: Capture the both pages alternately and save the captured pages on your PC.
In the event of successive scanning of the book, use the software menu panel "Main menu panel".
(Refer to III. "5. Creating an eBook" for more detail.)
LEFT: Display the left side, RIGHT: Display the right side
CAPTURE: Capture the displayed image and save the captured image on your PC.

<The button panel>
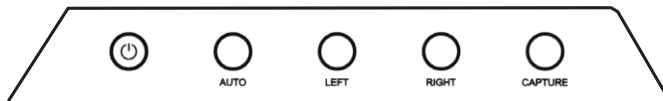
2) Rear

After installing the "VisualTable" software, connect the USB cable of the VisualTable book scanner to a USB port at the rear of your PC.

The VisualTable scanner works on a USB 2.0 port only. Please make sure your computer supports USB 2.0. If the VisualTable scanner is connected to a USB 3.0 port it may not work properly.

3. Key features and functions

Key Features	Λ-shape(Inverted V-shape) scanning glass	Allows to scan with no shadow, distortion or damage to the book binding.
	Real-time processing	Real-time correcting enables to improve the scanned image quality.
	OCR (Optical Character Reader)	Allows easy document conversion and Web search.
	eBook creation	Makes it fast and easy to create an eBook.
	Real-time annotation	Enables you to write or draw directly over the image.
	Hardware-Software interaction	Controls the hardware from the software.
Main Function	Real-time display	
	Capture image view	
	Image save a single side or left & light sides separately	
	eBook creation	
	Real-time Web search	
	Real-time annotation and creation of digital teaching materials	
	Easy access to Cloud services	

The information and specifications herein are subject to change without prior notice.
Software update: Click "http://blog.naver.com/smartbookscanner"

II_Installation

1. The installation process

Insert the VisualTable set-up CD, install and get verified necessary programs in order following to the instructions in this User Guide

The VisualTable is UVC (Universal Video Class) compatible which installs its driver automatically when connecting VisualTable to your PC's USB port. There is no need to install any additional drivers.

> 1. Install the "VisualTable" program

> 2. Install the OCR engine & Get the OCR license verified.

> 3. Run the "VisualTable" program & Setup its settings

Note: The software MagicZoom eBook and TTS are not provided.
The OCR engine software is separate software from the VisualTable software.
You can purchase as many user licenses as necessary without purchasing any additional hardware of the VisualTable.

- 1 unit of OCR user license key: Included in the installation CD

- Purchasing additional OCR user license key:

 Click "http://blog.naver.com/smartbookscanner"

2. Installing the software

Insert the VisualTable Set-up CD to your computer CD-ROM.

> If your computer does not meet the system specifications that VisualTable requires, there may be difficulties using VisualTable. Since OCR license can be registered only one time, you should check whether the projected image appears before registering the OCR license (Checking the projected image: Refer to III. 1. "1) Connect VisualTable and run VisualTable program".and "2) Custom Setting: Camera options"). In the event of your negligence of the above instruction, supplier has no responsibility for the related OCR issue.

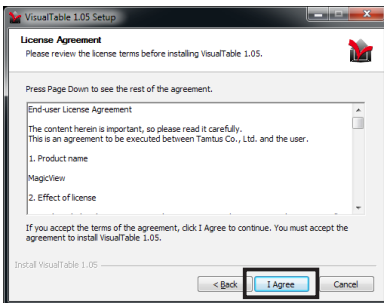1) Steps to installing VisualTable
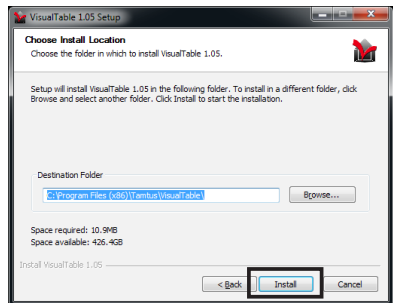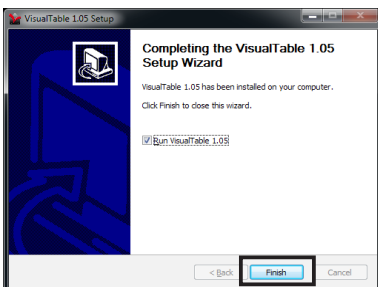
① Choose "VisualTable."
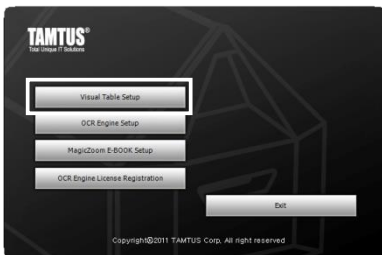
② Click "Next."
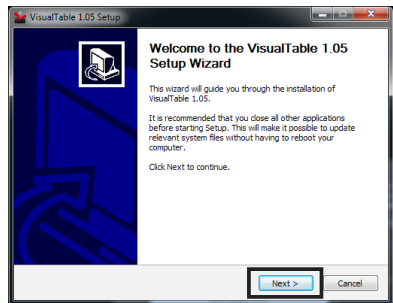
③ Click "I Agree."

④ Click "Install."
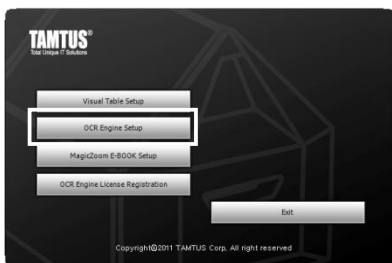

⑤ Click "Finish" to complete the installation.

2) Installing & Verifying OCR (Optical Character Reader)

Since OCR license can be registered only one time, you should check whether the projected image appears before registering the OCR license (Checking the projected image: Refer to III. 1. "1) Connect VisualTable and run VisualTable program".and "2) Custom Setting: Camera options"). In the event of your negligence of the above instruction, supplier has no responsibility for the related OCR issue.

Make sure that the Internet is connected before starting the installation. If the Internet is not connected, you will be unable to register the license.
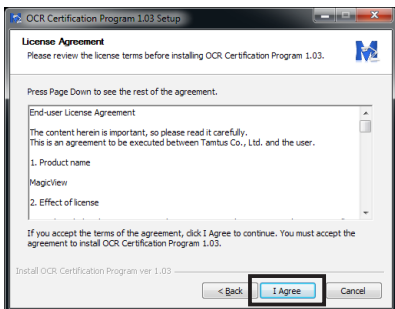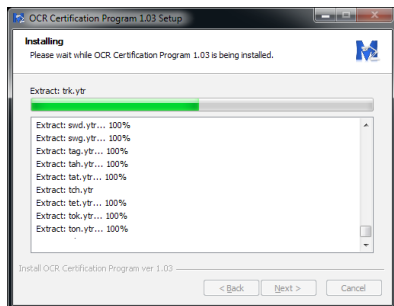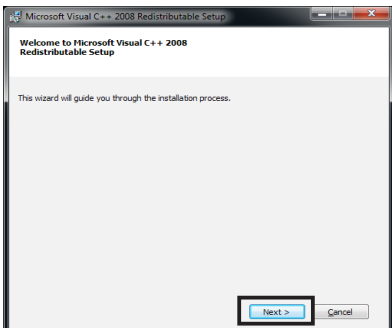
① Choose "OCR Engine Setup."

② Click "Next."
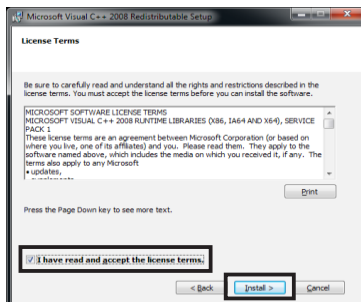

③ Click "I Agree."
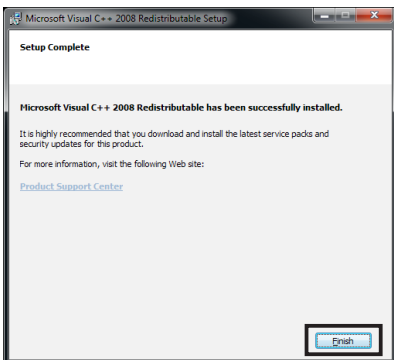

④ The installation starts.

⑤ Click "Next" to install Microsoft Visual C++.

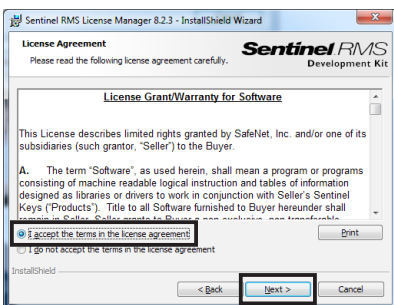⑥ Check "I have read and accept the license terms." and click "Install."

⑦ Click "Finish" to complete the Microsoft Visual C++ installation.
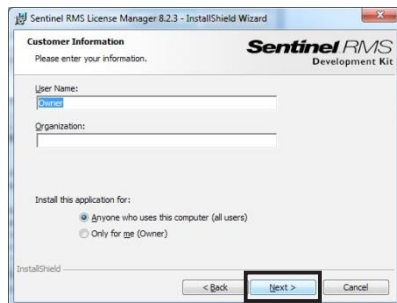

⑧ Click "Next" to install Sentinel License Manager.

⑨ Check "I accept the terms in this license agreement." and click "Next."
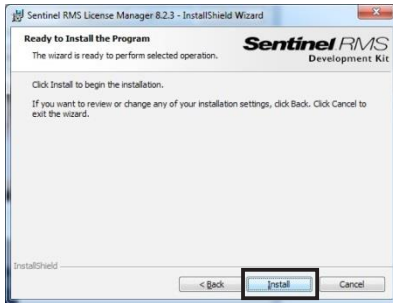

⑩ Click "Next."
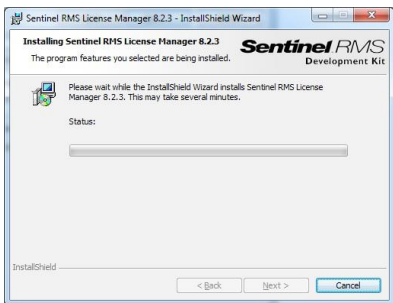

⑪ Click "Next."

⑫ Click "Next."

⑬ Click "Next."

⑭ Click "Install."

⑮ Please wait while the installation continues.

⑯ Click "Finish" to complete the Sentinel License Manager installation.
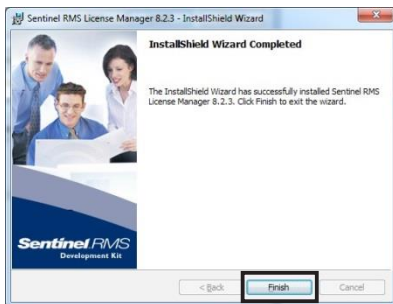
⑰ Click "Finish" to complete the OCR Certification Program.
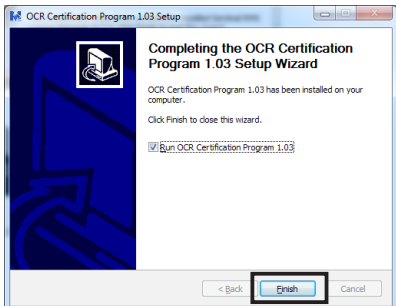
⑱ Enter the OCR serial number on the case cover of Set-up CD. Click "Register" and wait a few seconds until the registration is complete.

If the serial number has already been registered on the computer, click "Check," then the registered serial number will appear.

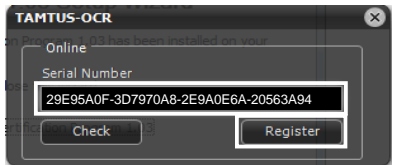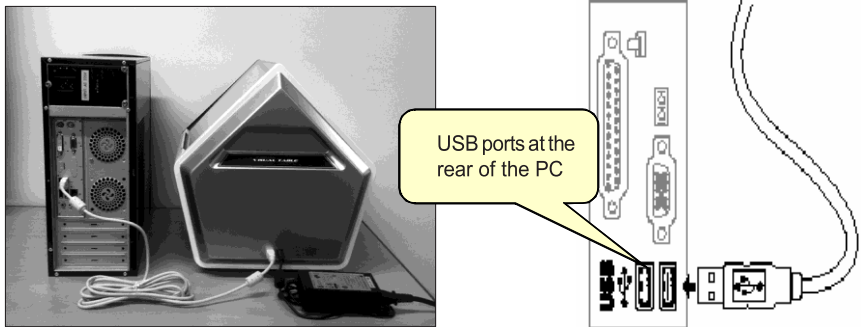3. Installing the hardware

1) After installing the VisualTable driver and related program, connect the USB cable of the VisualTable to a USB port at the rear of your PC.

USB ports at the rear of the PC

Note: The VisualTable book scanner can only work in USB 2.0. Check whether your PC supports USB 2.0

2) To use the VisualTable, there is no need for any additional drivers. After connecting the USB cable of the VisualTable to your PC's USB port, wait a few seconds, and then a message appears as "Your device is ready to use."

Installing device driver software
Click here for status.

5:00 PM
11/2/2011

Your device is ready to use
Device driver software installed successfully.

5:00 PM
11/2/2011
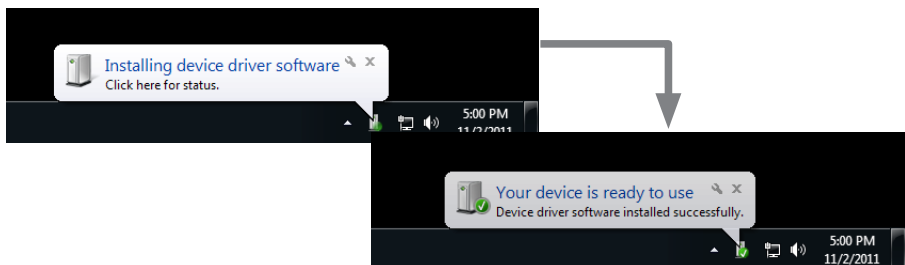
4. Installation Precautions

Compatible OS	VisualTable runs on Microsoft Windows XP(32 bit), Windows Vista, and Windows 7 and above (32 bit & 64 bit). The following specifications are required: Microsoft .NET FrameWork 3.5 or above, USB 2.0 or above and an external memory card (not internal memory) Note: Due to the high resolution camera of the VisualTable there may be no image appearing on some computer models.
Installing OCR	Since OCR license can be registered only one time, you should check whether the projected image appears before registering the OCR license (Checking the projected image: Refer to III. 1. "1) Connect VisualTable and run VisualTable program".and "2) Custom Setting: Camera options"). In the event of your negligence of the above instruction, supplier has no responsibility for the related OCR issue.
Genuine validation	If you have purchased any of the following optional software product: OCR, you need to validate your product to use it. The genuine validation can only be run on 1 computer. If you want to use OCR software product on more than one computer, you need to purchase additional product licenses.
Connecting the device	After installing the "VisualTable" software, you need to choose the right camera driver to use the VisualTable book scanner. For more details, refer to camera device of III. 1. 2) Custom Setting.
Reinstallation	The VisualTable book scanner comes with genuine software license. If you want to remove the programs or reformat your computer make sure that you back up your OCR license. (How to back up: Refer to the chapter V.) Otherwise, you will be unable to use the OCR program again. In the event or your negligence of the above instruction, supplier has no responsibility for the related OCR issue.

* Make sure you keep OCR license serial number on the case cover of Set-up CD in order to handle all the reinstallation issue with supplier. In the event of your negligence of this instruction, supplier has no responsibility for the related OCR issue.

III_Operating VisualTable

1. Getting started

1) Connect VisualTable and run VisualTable program.

① Turn on your PC power, and check whether the USB cable, power cable and power adapter of the VisualTable are all properly connected to your PC. After you have reconnected the USB cable wait 30 seconds and start the program afterwards.

② Double click the "VisualTable" execute icon on the PC screen or in the start menu in the lower-left corner of the PC screen.

③ Put your book, binding or paper, to be viewed on the top of VisualTable with its visible side facing down.

④ Turn on power by pressing the power button on the button panel at the front of VisualTable.

⑤ Push the LEFT or RIGHT button to capture pages.

⑥ If the projected image does not appear, check "Camera options" in "Custom Setting" in the below.

2) Custom Setting: Camera options
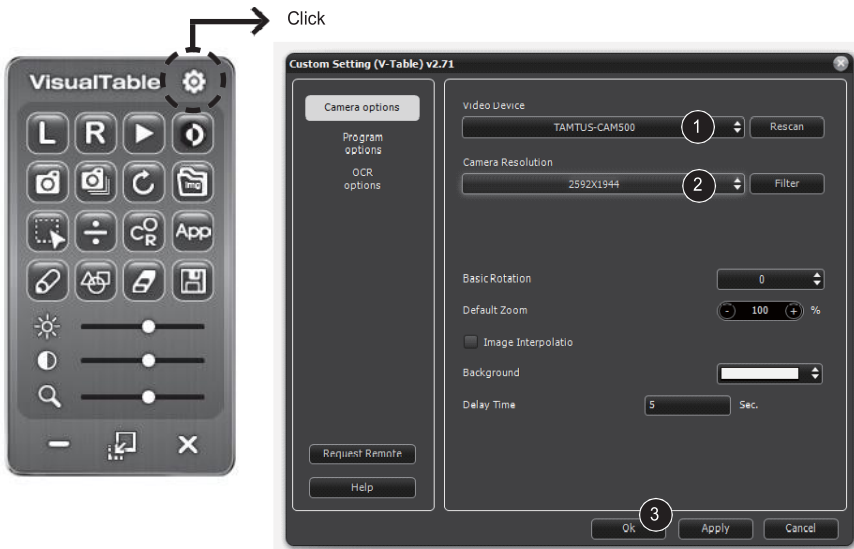
1 Choose the right driver in the "Video Device" selection window.
- Windows 7 and above: Choose "TAMTUS-CAM500."
- Windows XP: Choose "USB 2.0 Camera Device."

2 Once you see "2592x1944" in the "Camera Resolution" selection window the setting is complete.

3 Click the "OK" button at the bottom and exit "Custom Setting". If there is no image on the screen, choose a different video device again or choose a lower camera resolution step by step and check whether the projected image appears on the screen.

Note: To use the VisualTable more easily, getting the right settings is important. See III. 3. "1) Camera setting" for more details about customizing the settings.

3) Using the Main menu panel (Refer to III. "4. Using the program tool" for more detail.)

<Main menu panel>

a Minimize: The menu panel turns into an icon on the taskbar on the bottom of the screen. To restore it, click the icon on the taskbar.

b Minimize into Icon: This penal has icons only for the most commonly used features. To go back to the basic panel, click the "Exit" button.

< Simple menu panel >

Left / Right / Pen / Eraser / Main menu panel

c Close: To close the VisualTable program.

4) Viewing the real-time image and a still image
You can choose to view either the real-time image or a still image.

① Real-time image view: to show images of the book on the screen in real time
- Possible to quickly check screen flip, L/R change and brightness change.
- In this state of the low-performance computer, the operating speed can be very slow.
- A click on the button displays Freeze-screen.

② Freeze-screen: to freeze a captured image on the screen
- Screen flip and brightness changes are not applied immediately.
- The new captured image of the book is shown when L or R button is pressed. Invert and brightness changes are applied together.
- Even in the low performance computer, operation speed under this state can be improved.
- A click on the button displays Real-time image view.

5) Writing on images

① ✏️ Writing Start

- Click the pen button, and you can write and draw on the current viewing image.

- The functions not available on the writing mode become disabled.

- A click on the pen button again enables you to drag the mouse and use it as a move tool for the current viewing image. 🖐️

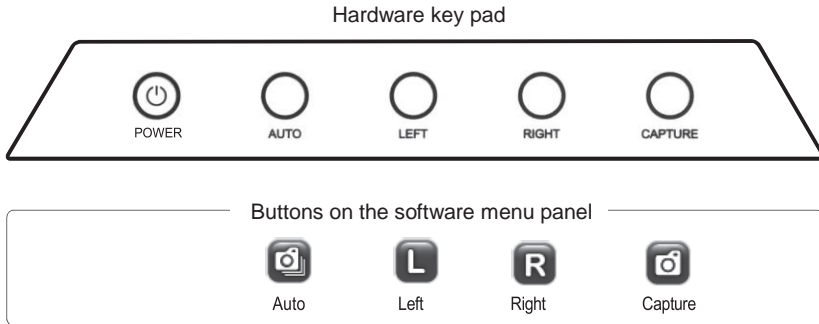- Writing Stop: Press L 🄻 or R 🅁 to exit the writing mode.
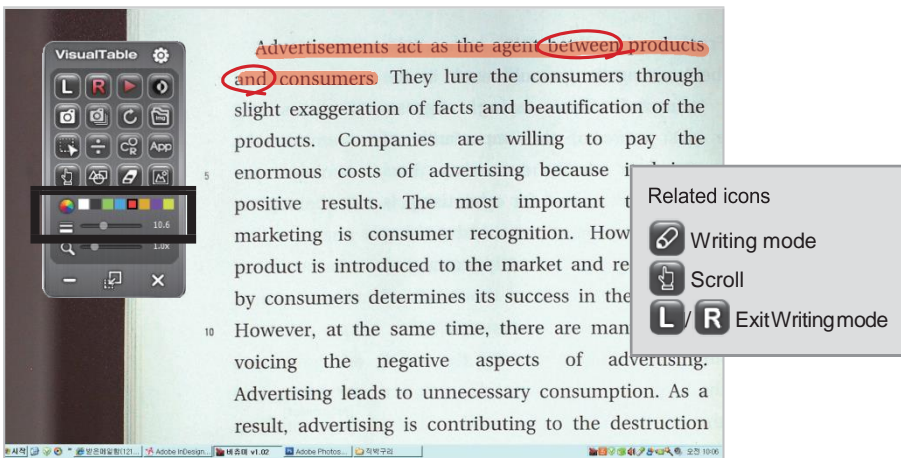
* In the writing mode, Brightness and Contrast controls change into Color and Line Width Selections.

② ✏️ Using tools on Writing Mode

- Click the pen, and the Color Selection and Line Width menu appears, where you can select colors and line widths and write or draw objects on the screen with the electronic pen or the mouse by moving it with its left button pressed.

- 🖋️ Click Figures and select your desired one to draw it.

- ⟋ Click the Eraser button to select the normal eraser, and you can erase the line where it comes in contact; otherwise, you may choose the complete eraser to erase all contents.

- 🖼️ Click on Open Image to retrieve new image, on which you can do writing and drawing.

- 📋 Drag a specific area with a mouse to make selection, and you may be able to use such functions as 'Cut' ✂️ , 'Save' 💾 , 'Copy' 📑 , etc. in the Area selection. (Refer to III. "4. Using the program tool" for more detail.)

2. Operating the hardware

Both the hardware and the software program menu can be used for image capture. In the event of successive scanning of the book, use the software menu panel "Main menu panel". (Refer to III. "5. Creating an eBook" for more detail.)

Hardware key pad

Buttons on the software menu panel

Auto   Left   Right   Capture

<Direction of the Book complying with the initial setting>

1) Basic functions

- POWER : for supply of power: the equipment begins to beep when the program is not executed or the cable is not connected properly.

- AUTO 🔲 : captures and saves pages on both sides alternately.

- LEFT 🔲 : shows the left page of the book on the screen

- RIGHT 🔲 : shows the right page of the book on the screen

- CAPTURE 🔲 : captures the current image and save it.

2) Special functions

- 🔲 Freeze-screen mode : To freeze a captured image on the screen.

3) ☑ Auto Capture : When Auto Save is checked in the Creating eBook program,

- L : Click of "L" button captures and saves the left side.
- R : Click of "R" button captures and saves the right side.

3. Custom settings

Click on the Custom Setting icon on the top right of the menu panel to enter the configuration mode Click the Camera Setting, Program Setting, or OCR Setting tap respectively on the left side menu to enable each of the corresponding functions.

Custom Setting > Camera options

Click
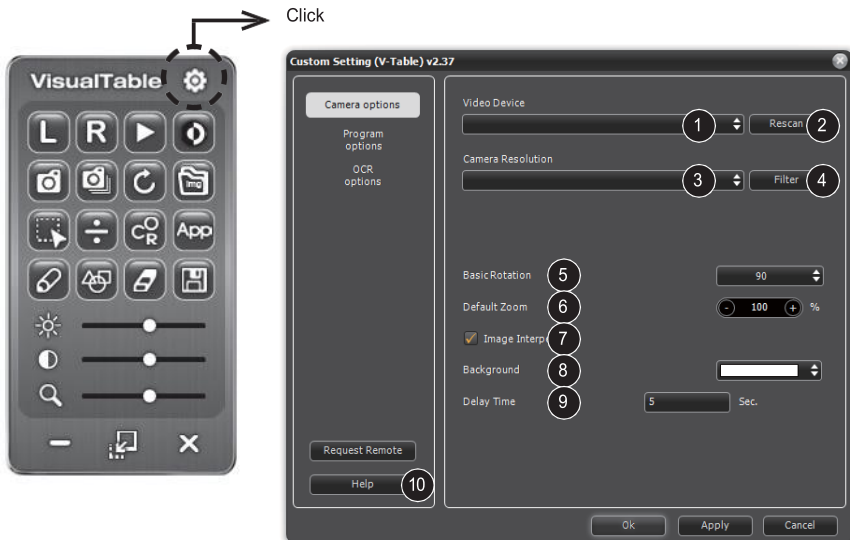
1) Camera setting

1 Video Device: to select a camera device.
- Windos 7 and above : choose TAMTUS-CAM500
- XP : choose USB 2.0 camera device

2 Re-search: to search for a camera device again
In the event of running the program and then connecting the VisualTable program, you need to click Re-search under the Camera setting to complete camera selection. When the VisualTable USB is connected after the program is run,

3 Camera Resolution: to select the appropriate resolution of a camera.
The maximum resolution 2592 x 1944 has been given at default. Use of the maximum resolution may cause your computer to slow or not to create computer images, when you are advised to select a lower resolution.

4 Detail settings: to determine specific screen values of the camera
Brightness: to adjust the brightness of an image. The farther it moves to right, the brighter it gets.
Contrast: to adjust the contrast of an image. The farther it moves to right, the higher it gets
Color: to adjust the color of an image. The left side gives you red light while the right side blue light.
Saturation: to adjust the saturation of an image. The farther it moves to right, the darker its color becomes.

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Sharpness: to adjust the clarity of an image. The farther it goes to right, the sharper it becomes rougher.

Gamma: to adjust the gamma value in order to control the degree of the boundary of an image. The farther it goes to right, the higher contrast range it has.

White balance: to adjust the value for grayness. You are advised to set it to Auto.

Backlight compensation: to compensate for backlight. (To the right for Application))
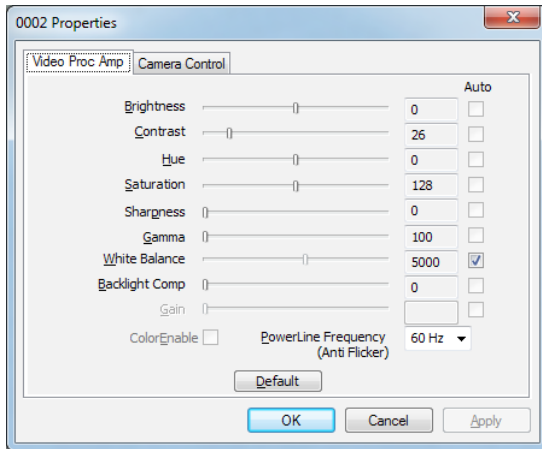
(5) Normal rotation: to rotate an image when running the program Set the rotation to 90˚ for a book employing a normal horizontal writing method.

(6) Default magnification: to set a magnification shown at default when running the program. Assuming a book of normal size showing on a 1280 X 1024 screen, you are advised to select an 80% magnification.

(7) Image compensation: to enable or disable the function by marking a V in the box.
Check the V allows you to view images of a better resolution: however, you have to bear a slower display of images
Enabling image compensation: to check the box
Disabling image compensation: to leave the box unchecked.

(8) Background color: to select a background color that is shown other than where images are displayed

(9) Scan delay time: to determine time for a page to properly settle itself after the screen changes from left to right or vice versa. The image does not appear properly when the computer produces it at a slow speed or the scan time is too short to substantiate a clear image. Normally, it takes a personal computer about 3~5 seconds, or more than 9 seconds for a computer with low specifications. (Initial basic setting: 5 seconds)

(10) Help: see the User Guide or click "http://blog.naver.com/smartbookscanner"

Custom Setting> Program options
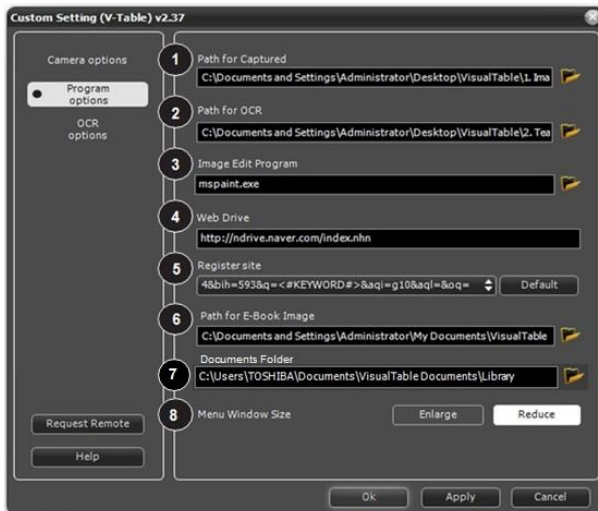
2) Program setting: Click Program option.

① Path for Captured: to select a folder where captured images are saved

② Path for OCR: to select a folder where OCR-formatted documents are saved

③ Image Edit Program: to select an Image Edit program; otherwise, Windows' Mspaint.exe has been set at default. (Open the folder of the requested edit program and click its exe file.)

④ Web Drive: to register the site for cloud service drive (e.g. google drive). The registered site will pop up by click of "U" button in "App" of the Main menu panel.

⑤ Registered Site: the registered search engine to be used in VisualTable, moving up and down by using the Up/Down arrow on the right in order to select preferred one. (The related function: Main menu panel→ 🖼️ Area selection → 🌐 Internet search)

⑥ Path for E-Book Image: to determine a folder for saving scanned images for creating an eBook in the eBook mode.

⑦ Documents Folder: to determine a folder for saving the image by double click of the inside of the scan area in creating eBook. (Related Function: Refer to III. "5. Creating eBook".)

⑧ Menu Window Size: to select the size of the Main menu panel and make it small or large.
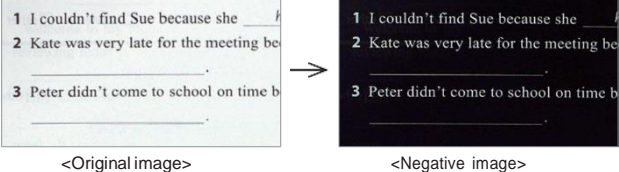
Custom Setting > OCR options

3) OCR setting

1 OCR Option: to select a targeted language for OCR converting characters on documents. In the event of converting a document written only in English, selecting "English" will improve the recognition rate.

2 Translation Language Selection: to select a language after translation. (The related function in the Main menu panel: Area selection→ Translation)

4. Using the program tools

L	Left view	To show the left side of a book
R	Right view	To show the right side of a book
▶	Real-time image view	To show images of the book on the screen in real time. A click on the button displays Freeze-screen. ◻
◻	Freeze-screen	To freeze a captured image on the screen. A click on the button displays Real-time image view. ▶ Click on either R ⟨R⟩ or L ⟨L⟩ to bring up a new page.
◐	Negative view	To show the color of an image in reverse form <Original image> → <Negative image>
📷	Capture	To scan the current page and save it in a file. The destination can be set in "Path for Captured" of III. 3. 2) Program setting. The basic folder name is "Capture Image"/ "YYYY-MM-DD"(Year-Month-Date) and basic file name is "HH_MM_SS"(Hour_Minute_Second). In writing mode, the objects that are drawn or written on the image are saved together.
📷	Series-Capture	To save left and right sides in image file format. The currently viewing page is saved first and then the opposing side follows. The path is assigned to Captured Image Save folder.
↻	Rotation	To display an image turning at 90 degrees clockwise. The rotation value is saved and later applied in the same form when uploading the image.
🗁	Open folder	To open Captured Image Save folder to verify the image saved in the scan mode.

|			
	Area selection		To drag a specific area with a mouse to make selection
		Save	To save the selected area into an image
		Copy	To copy the selected image onto the clipboard or on other application programs running on the Windows environment.
		Cut	To cut the selected area for use in a teaching material To move, adjust the size of, rotate, or delete the cut image To double click on the cut image to fix and write on
		Internet search	To convert the selected area into characters, for which a search is possible on the Internet.
		OCR	To extract the selected area of an image into a text that can be saved in a file.
		Translation	To translate the language selected in OCR option (The related setting: III. 3. Custom setting/ OCR option)
	Comparative screen		To divide the monitor into two, where one screen shows a captured image while the other displays a real-time video. The screen ratio can be adjusted by moving the central bar.
		Refresh	To refresh the left and light sides on the screen
	Enlarge/Reduce		To enlarge/reduce the viewing screen by the mouse wheel or the icon. To drag the mouse to move the screen
	OCR: Optical Character Reader		To convert the contents of the book on the screen into a text and save it This function is possible only on a computer on which the OCR license has been installed.
			To select a language to convert before conversion German/ English/ Japanese/ Chinese (Simplified)/ Chinese (Traditional)
			To select a format among PDF, WORD or TXT
		Text copy	To copy characters onto the clipboard for later use on another application software such as WORD or PPT
		Open Doc	To open "OCR Documents" folder and confirm converted documents
		TTS Learning	TTS is not provided.

App	Application program		To execute an application program linked to VisualTable.
		e-Book	To scan books and create e-Books
		TTS	TTS is not provided.
		Web drive	To use cloud service drive (e.g. google drive). The registered site will pop up by click of "U" button.
		Image Edit	To edit the currently viewing page in an Image Edit program. The use of a specific edit program requires a separate registration; otherwise, Mspaint will be executed at default. (The related setting: Custom setting/ Program options/ Image Edit Program)
		Exit	To escape from the Area Select tool
	Writing mode		To change modes to allow writing on the currently viewing page. When the mode is changed, attribute bars (brightness/contrast and line width/color) appear. Click on either L [L] / R [R] to exit the writing mode and get a new page.
		Move	To drag the mouse to move the viewing page
	Figures		To draw figures including lines, rectangular, circles and planes
	Normal eraser		To erase areas on the line where the eraser comes in contact.
	Complete eraser		To erase all the contents written on the page.
	Image Open		To get a new image in the writing mode. It is possible to write on the new image or convert a specific area into text by using "Area selection" and then "OCR" button.

5. Creating eBook

The VisualTable scanner enables user to scan texts or reference books conveniently and produce eBooks in the PDF file format.
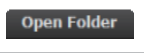
Main menu panel: **App** → 📖 Go to the Creating eBook program.

1) Browse Creating eBook program
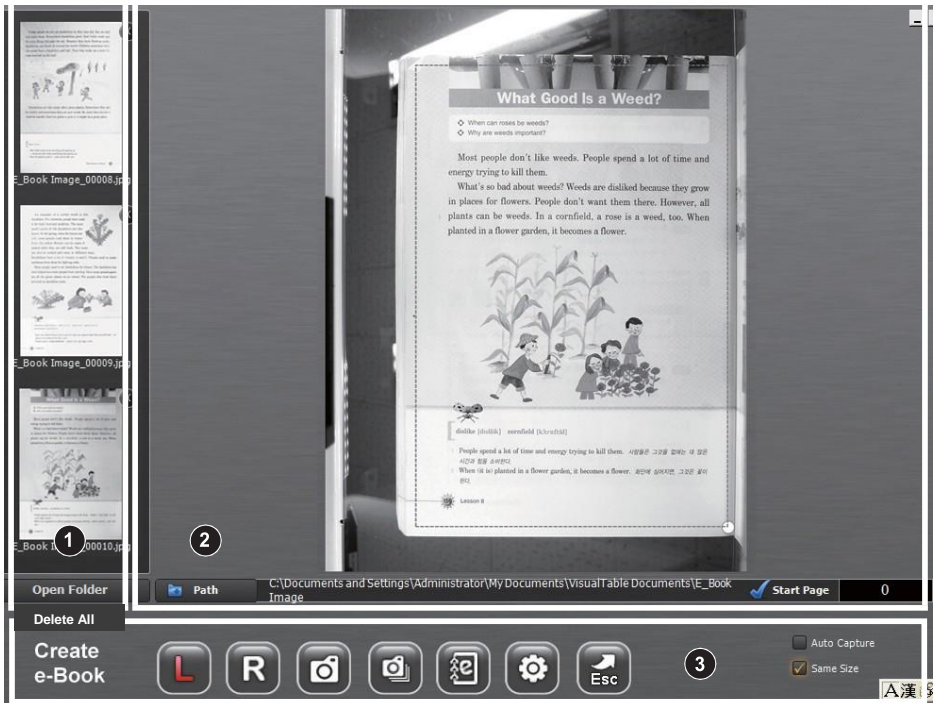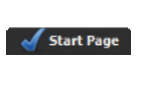

< Creating eBook program >

1 Saved image lineup window
2 Real-time image/ Scan area specifying window
3 Function button window

1 Saved image lineup window

E_Book Image_00008.jpg	To display the list of scanned images **X** To delete the saved image File name: the folder name + sequential number
Open Folder	To get the folder of saved images and check them
Delete All	To delete all the files in the folder. In the event of sharing VisualTable, make sure to back up all the necessary scanned images for successive scanning in the next time before other users delete all the images by "Delete All" button.

2 Real-time image/ Scan area specifying window

	To show the page of a book to be scanned and specify scan areas for saving. - Drag the mouse to move about the Area Select window (the dotted box). - Click on a circle at a corner of the Area Select window to drag and adjust its size. - Scanning is executed only on the marked area, which can be saved for later use. - Saving the image by double click of the inside of the scan area in creating eBook (Folder setting: Custom setting/ Program options/ Documents Folder)
Path	To select the folder to save scanned images for creating an eBook file. Scanned image files are automatically numbered. File name: the folder name + sequential number
Start Page	To input a beginning number; this will increase by one at each scanning. File name: the folder name + sequential number counting from the beginning number (It is helpful to creating pdf file by having the successive numbers for the previous scanned files.)

3 Function button window

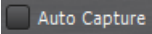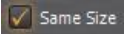|		
L	Left	To go to page on the left side and show it
R	Right	To go to page on the right side and show it
Capture	Capture	To scan and save the currently viewing page
Automatic capture	Automatic capture	To save left and right pages in image file format. The currently viewing page is saved first and then the opposite page follows. The path is assigned to "E_Book Image" save folder. The opposite page will be saved after the first pages is completed, waiting for an interval set in "Delay Time" (Custom Setting/ Camera options). In the event that scanned images are dim and blurry or their brightness is not uniform, you need to extend the scan delay time 5 seconds at default.

![Creating eBook icon]	Creating eBook	To convert saved images and create eBook in a text type PDF file. - Text type PDF file: Possible to copy and paste in a general pdf software (Image type PDF file: Not possible to copy) - Maximum pages possible to be converted into one PDF file: 300 pages. (In the event of scanning a book with over 300 pages, create a pdf file per 300 pages and then combine all the related pdf files.)
![Custom Setting icon]	Custom Setting	User can select Camera options, Program options or OCR options and have a necessary setting.
![Exit icon]	Exit	To close "Creating eBook" program
![Auto Capture checkbox]		When the check mark is displayed in the box, press either L ![L] / R ![R] to move to the left or Right side and save the image. The saving is carried out according to a preset Scan Delay Time established under Configuration. (Custom Setting/ Camera options/ Delay Time)
![Same Size checkbox]		To make the left and right Area Select boxes equal in size based on the left side when the check mark is displayed in the box. Adjustment of a size is possible only in the left side.

2) Scan order for the Creating eBook program

① Click on **c** 'Save Folder' and assign the path of a folder where images for eBook are saved

② Click on **g** 'View Right Side' and on **d** , giving the book an area (in green dotted line)

③ Click on **f** 'View Left Side' and on **d** , giving the book an area (in red dotted line)

④ Click on **e** 'Beginning Page' to enter the beginning number.

⑤ Click on **i** to save the left and right sides automatically; click on **h** to save the current page. Turn pages to repeat the function.

⑥ Click on **j** to convert saved images and create eBook in a PDF file.
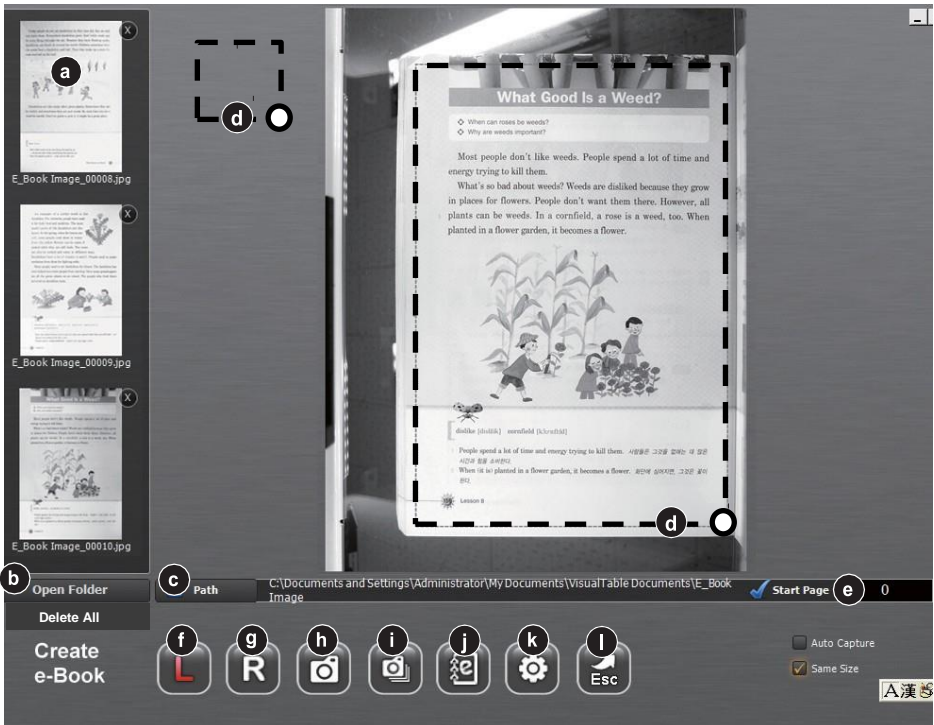
a Saved image lineup window	**g** View right side
b Folder open	**h** Save current image
c Save folder	**i** Save left/ right images
d Area select window	**j** Create eBook in a PDF file
e Beginning page	**k** Configuration
f View left side	**l** Exit

IV_Troubleshooting & Precautions

1. Troubleshooting

If you have problems while using Visual Table or installing the driver and program, see below for the checklist and troubleshooting guide:

1) What to do if the picture screen does not appear after you connect the USB cable to your PC.

▷ Choose the right driver in the "Video Device" selection window. (Custom setting/ Camera options/ Video Device: Refer to III. 1. "2) Custom setting")
- Windows 7 and above: Choose "TAMTUS-CAM500."
- Windows XP: Choose "USB 2.0 Camera Device."

▷ Once you see "2592x1944" in the "Camera Resolution" selection window the setting is complete.

▷ Click the "OK" button at the bottom and exit "Custom Setting." Click the "OK" button at the bottom and exit "Custom Setting". If there is no image on the screen, choose a different video device again or choose a lower camera resolution step by step and check whether the projected image appears on the screen.

Note: To use the VisualTable more easily, getting the right settings is important.
See III. 3. "1) Camera setting" for more details about customizing the settings.

2) What to do if the graphic card does not properly support Direct3D acceleration, and you can't start VisualTable.

▷ You need a graphic card that supports Direct3D acceleration.

2. Precautions
Here are some care tips to follow when using this product:

▷ Use a clean, soft cloth to remove any dust from around the body of the product.

▷ Do not use a cloth that contains methane alcohol or ammonia to wipe the product.

➜ Use a soft cloth or cotton swabs to wipe off any dust on the product.

▷ Do not let water run into the product.

▷ Do not leave fingerprints or other smudges on the acrylic panels of the product.

▷ Avoid storing or using the product in a humid or dusty environment.

▷ Do not expose the product to direct sunlight or excessive heat.

▷ Do not put the product directly to the sun.

V_Precautions to take before reformatting PC

Only one validation attempt is allowed per license of OCR. If you need to reformat your PC, please refer to following instructions to back up the license information of your OCR. In the event of your negligence of this instruction, supplier has no responsibility for the related OCR issue.

1) If you want to reinstall on the same PC after reformatting the PC.

- Steps to back up the OCR license key
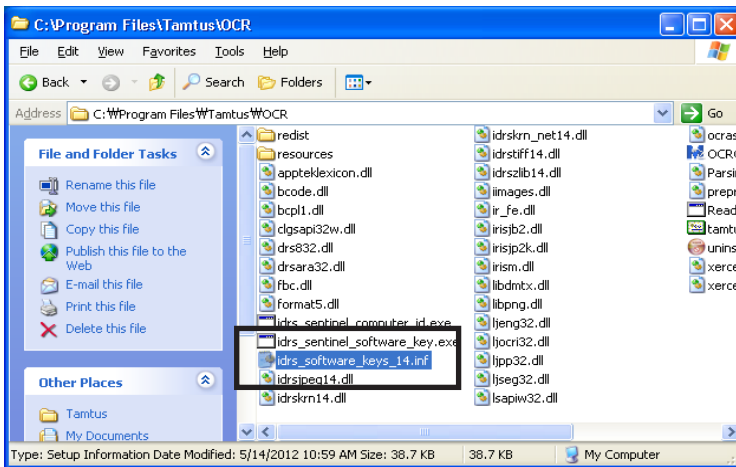
- Step 1: Find the file of "idrs_software_keys_14.inf" in the OCR folder
     (C Drive→ Program Files→ TAMTUS→ OCR)
- Step 2: Back up the file of "idrs_software_keys_14.inf"
- Step 3: Reformat the PC → Reinstall your OCR → Paste the file inside the same folder.

2) If you want to install on a different PC

Click "http://blog.naver.com/smartbookscanner"

  * Make sure you keep OCR license serial number on the case cover of Set-up CD in order to handle all the reinstallation issue with supplier. In the event of your negligence of this instruction, supplier has no responsibility for the related OCR issue.