NeuraScanner

Installation and Operation Guide

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NeuraScanner

Installation and Operation Guide

NeuraLabel Printing Solutions, a Neuralog Company

Neuralog, LP, Stafford, Texas

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This edition documents NScan software and

Part numbers: HW-NSCAN2-1 and HW-NSCAN2-TB1

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1 Introduction

NeuraScanner is a high-speed, color continuous document scanner. Initially designed and built specifically to scan well logs, the NeuraScanner can scan any continuous length document up to 10 inches per second. With three color settings, color, black & white, and grayscale, capturing and preserving your logs has never been so efficient.

FEATURES

- **Compact and Light Design**
  - 15" W x 9" D x 2.5" H
  - Weighs less than 10 lbs.
- **Fast, Flexible and Clean Scanning**
  - Scan rate of 1"-10" per second.
  - 1" - 12.1" width by unlimited length.
  - Start/stop scan anywhere on well log or document.
  - Customizable batch scanning.
- **Black/White, Color, and Grayscale Imaging**
- **Interface Compatibility**
  - USB ports provide flexibility to operate in the field
- **Universal Power Supply**
  - 110-220V/50-60 Hz auto sensing
- **Film Scanning Kit *(Optional)***
  - Any NeuraScanner can be modified to scan full or reduced scale film. *This includes both positive and negative film*.

2 Important Safety Information

When using electrical appliances or equipment, basic safety precautions should be followed, including the following:

RESTRICTION ON USE

Use this equipment only for its intended use as described in this guide. NeuraScanner

- Do not use power supplied outside the specified voltage/ hertz range.
- Do not block any openings to the equipment.
- Do not use corrosive chemicals or vapors on the equipment.
- Do not expose equipment to rain or moisture

GROUNDING

This equipment must be grounded. Connect only to properly grounded outlet.

POWER SUPPLY CORD

Do not operate the equipment if it has a damaged power cord or plug. Do not immerse the power cord or plug in water. NeuraScanner uses a detachable power supply cord.

The power supply cord may be used as a disconnect to turn the scanner off.

FUSE

Only replace the fuse with the same type and rating.

WORK AREA

Keep the work area free from food, drinks, staples and other items that can fall into the upper vents.

SERVICING

This equipment should be serviced only by qualified service personnel. Failure to use Neuralog Support to repair the NeuraScanner nullifies any warranty in place.

Contact Neuralog for questions, examination, repair, or adjustment at support@neuralog.com or call +1-281-240-2525

3 Before Using

This section will familiarize you with your new NeuraScanner.

IN THE BOX

- NeuraScanner
- Power Supply Cord
- USB Cable
- Card with link to the User Guide

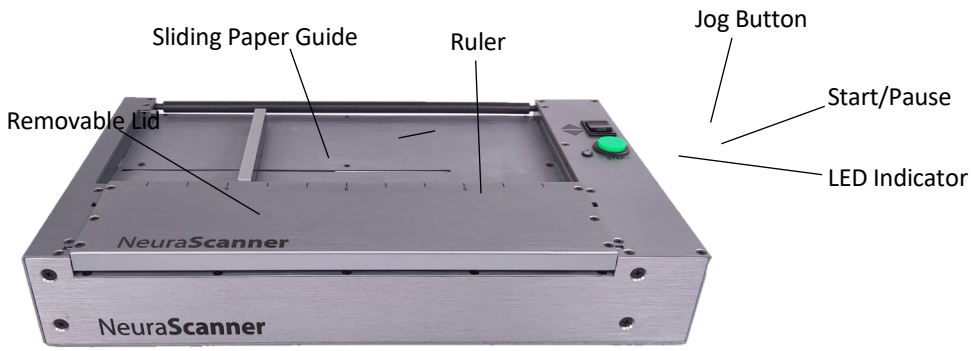
NeuraScanner

Power Supply Cable	USB Cable

NeuraScanner is shipped with a Power Supply Cable and a USB Cable. *Cables may differ slightly from those shown*.

NeuraScanner License Key #, software and drivers will be emailed to the designated contact. Check for updates on Neuralog's web site, **www.neuralog.com**.

THE SCANNER



Removable Lid

The Removable Lid is opened by lifting up on the ruled edge. It will pivot and lift slightly. Remove by lifting one end and tilting slightly. Replace it by aligning it in the lid grooves and gently lowering it into place. You will hear the lid "snap on" when it is securely back in place. **NOTE:** Lid does not have to be removed to place document in scanner.

Sliding Paper Guide

The Sliding Paper Guide defines document scan width to control paper flow. To adjust the paper guide, pull up on the guide bar, slide to desired location and release. Documents should slide freely, but snugly between the paper guide and right scanner edge.

Ruler

The Ruler determines the width of the document to be scanned. This is the value to be used when preparing the document for scanning within the software.

LED Power/Activity Indicator

The LED Power/Activity Indicator is a green light that is active when the scanner power is on. The LED will blink while data is being transferred from the scanner to any of the ports. **NOTE:** After scan has ended or paused, data transfer may continue for a short time.

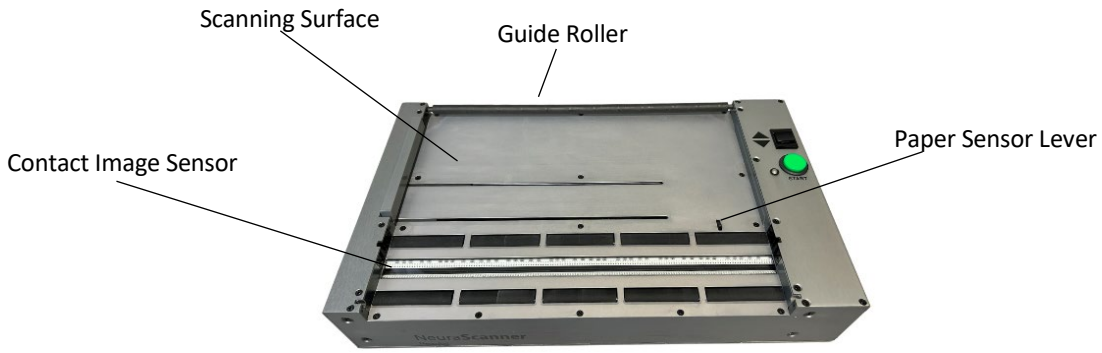
Jog Button

The Black Jog Switch is used to advance or reverse a document when the scan has been paused or stopped. **NOTE:** Jog Switch is ignored if pressed while scanning.

Start/Pause Button

The Green Button on the scanner top is used to Start or Pause a Scan. **NOTE:** This may also be controlled in NeuraScanner's software.

TOP PANEL



Scanning Surface

The Scanning Surface is made with smooth grained aluminum for optimal paper flow. Documents are placed face down under the Guide Roller and between the Sliding Paper Guide and right scanner edge, next to green start/stop button.

Guide Roller

The static-resistant roller is used to hold the paper in place. The log paper is inserted upside down under the roller.

Paper Sensor Lever

The Paper Sensor Lever indicates to the software that a document is present for scanning. Make sure the lever is down when a document is placed in position. It lifts when the job is completed.

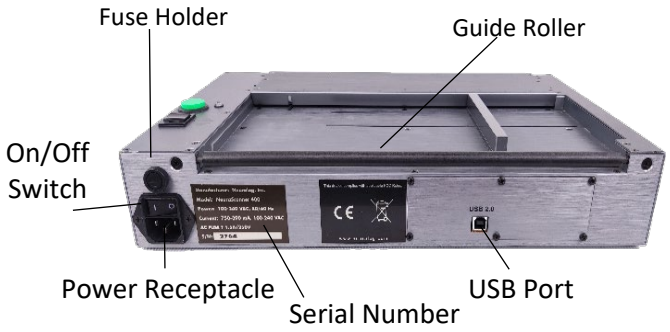
NOTE: NeuraScanner will not scan if lever is not depressed.

Contact Image Sensor

The Contact Image Sensor "sees" the document. A glass strip covers it.

NOTE: The glass should be kept clean for optimal scanning. To remove ink, glue and other debris, wipe off with a damp isopropyl alcohol lint-free wipe. **DO NOT** wear sharp jewelry or use an abrasive material when using or cleaning.

REAR PANEL



Power Receptacle

The AC Input Power Receptacle uses a standard power supply cable.

On/Off Switch

The On/Off Switch controls power to your scanner. The **I** position indicates *Power On*, while the **O** position indicates *Power Off*. **NOTE:** Power supply cord may also be used as a disconnect to turn the scanner off.

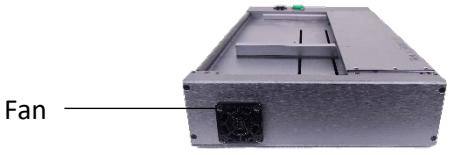
Fuse

The correct fuse type and rating is indicated on the scanner panel. To replace, use a standard flathead screwdriver. **NOTE: Only replace with fuse of same type and rating.**

USB Port

The USB Port is used to connect NeuraScanner to your PC with the USB cable included.

SIDE PANEL



Fan

The NeuraScanner Fan circulates air through the motor. **NOTE:** To achieve proper air flow, the fan **must not be blocked**.

4 Setup and Software Installation

To install NeuraScanner, follow the steps below:

HARDWARE SETUP

- Plug NeuraScanner into power source with supplied power cord.
- Connect NeuraScanner USB port to computer USB port with supplied USB cable.
- Turn scanner ON with power switch located on rear panel. *LED Power/ Activity indicator will light up when scanner is fully booted.*
- Your computer will "detect new hardware". When asked to install driver, use the installation links provided via email.[1]

[1] Check www.neuralog.com for latest drivers.

SOFTWARE INSTALLATION

- Make sure the NeuraScanner is powered on and USB connected from the PC to the NeuraScanner before beginning the installation process.
- **Select the following products/components** and accept the defaults[2]:
  - **NeuraScanner** (Nscan)
  - **NeuraView Scanner Edition (SE)** (NeuraView)
  - Run ***vcredist_x64.exe*** or ***vcredist_x86.exe*** program from \nds
- Products/components chosen will run installations separately. Follow instructions for each. Special notes below:

♦ NeuraScanner

➔ **License Key # is entered** in the **Help -> About Scanner…** panel when started the first time. (***Key#*** is a ten-character alphanumeric string and is provided in the installation email).

➔ Once the key is entered, exit the program to set the license key. Then you can bring it back up.

♦ NeuraView SE

➔ Licensed with key# entered in the NeuraScanner software (Nscan).

➔ The NeuraScanner must be powered on AND Nscan software must be running to use NeuraView SE. *(To upgrade to a full stand-alone or network version, email sales@neuralabel.com)*

NOTES:

- Special installation instructions may have been included with your scanner shipment. If so, follow those instructions.
- Check *Troubleshooting* section for more detailed information.

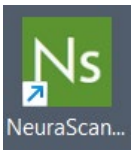
[2] Check www.neuralog.com for latest software update information and download.

5 Basic Scanning

START NEURASCANNER SOFTWARE

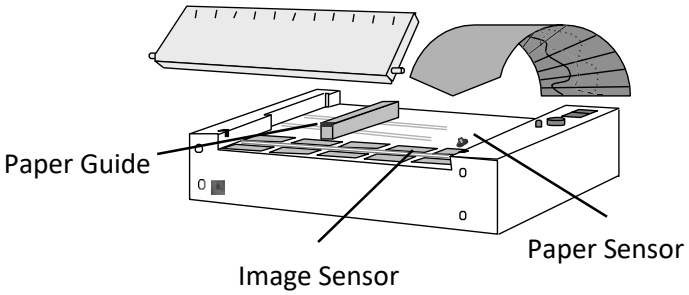
Start -> Type "NeuraScanner"

You can also conveniently start the NeuraScanner software using the icon on your Desktop.

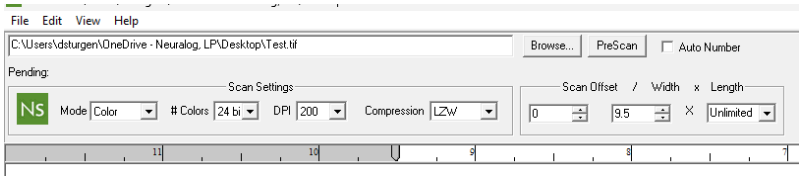


PLACE PAPER IN SCANNER

- Place the top-edge of document **face down** under the rollers and slide toward image sensor glass. Depress Jog Button so the scanner grabs the top of document. **NOTE:** Document is fed from the rear of the scanner.
- Adjust sliding paper guide to be flush with edge of paper.
- Use the jog switch to make sure the rollers catch the paper.
- ***Optional***: Scan may be started "mid document." Open and remove scanner lid, place document at the desired starting point and replace lid.



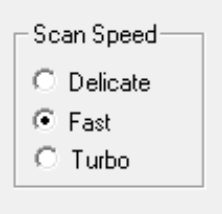
SET FILE/SCAN PARAMETERS



- **Browse** for image directory path and name **before scanning**.
- The file is natively saved as a compressed TIFF image.
- Select image **Mode**: **B&W**, **Gray, Color**.
- Set image scan width. Make sure it matches with the ruler measurement of the NeuraScanner.
- Set image scan length. **NOTE:** 'Unlimited' will scan until paper sensor lever "trips" (runs out of paper). This is the default value.
- For Black and White images, select thresholding 2D Adaptive, Auto or Manual.
- For Color/Greyscale images, select Brightness.

SCAN SPEED

It is very important to set your scan speed prior to scanning. For example, setting the scan speed too fast on a time worn document may shred the original. If in doubt, use delicate.



Here are the approximate speeds (Inches/Second or IPS) you can expect at 200 DPI. Scanning at 600 DPI slows the speed more but creates larger files.

- **Tip:** To scan a time worn B&W document slow and keep the file size down: Scan 600DPI | Color | and then save back out as a 200DPI B&W

	B&W	Color
Delicate	6 IPS	4 IPS
Fast	8 IPS	6 IPS
Turbo	10 IPS	8 IPS

PRESCAN

PreScan will scan a document approximately 12" forward and 12" Backwards. The image is on the screen ready for review. This allows the end user to adjust Brightness/Intensity sliders prior to scanning the complete job.

BASIC SCAN OPERATIONS

BEGIN SCAN:

Click SCAN button in software **or** GREEN button on scanner. *Image will appear in window*. **NOTE:** Scanning may pause as image is processed

PAUSE SCAN:

Click PAUSE button in software **or** GREEN button on scanner. *This enables the user to skip past part of document /log before continuing scan*.

RESUME SCAN:

Click SCAN button in software. (**NOTE:** Do not press GREEN button when scan is in PAUSE mode. That action will STOP the scan at that point.)

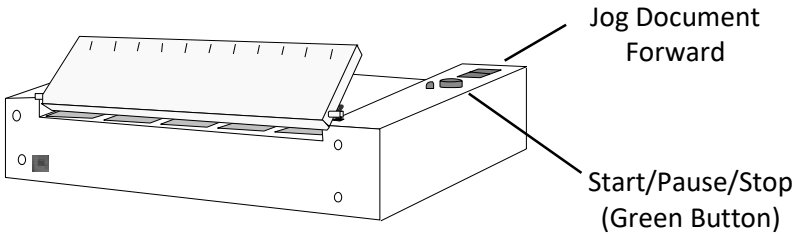
STOP/CANCEL SCAN:

Click STOP button in software **or** GREEN button on the scanner. (**NOTE:** Pressing GREEN button on scanner **2 times** *after scan begins* will STOP scan at that point. Output file will contain image portion scanned before stopping.)

SOFTWARE SCAN CONTROLS

Scan Pause Jog Stop Eject

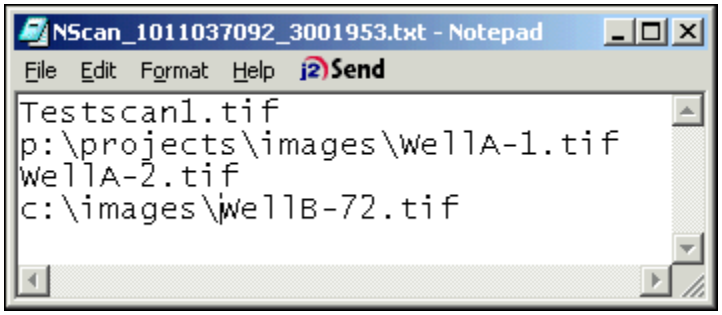
HARDWARE SCAN CONTROLS



6 Additional Features

CREATING CUSTOM BATCH FILES

- File -> Create Batch File...
  (User's default text editor will launch (i.e. Notepad)
- **Type list of paths/filenames to be scanned** as shown in the example below:



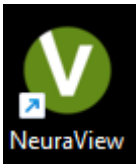
  - **Testscan1.tif**- Image will be placed in the current scan folder.
  - **WellA1.tif**- Image will be placed in the p:\projects\images folder.
  - **WellA2.tif**- Image will be placed in the p:\projects\images folder.
  - **WellB-72.tif**- Image will be placed in the c:\images folder.
- **File -> Save** (Saves to c:\temp\Nscan for use)

- File -> Close
  - **Yes** - 1st file name on the list will appear in the output file name keyin waiting for the document to be loaded and started. *(The next file listed in the batch file will be displayed next to **Pending:**)*
  - **No** - File may be executed at a later time.
- Creating a file outside of Nscan to use as a batch file
  - Create text file as shown above and save with **.nsb** file extension. The file may then be opened and excuted. ***File -> Open Batch File...***

STARTING A SCAN FROM NEURAVIEW

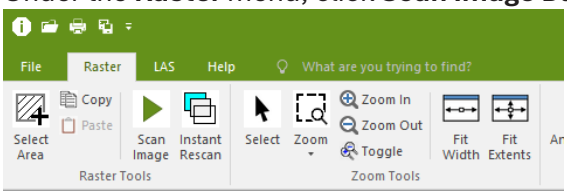
Start -> Type "NeuraView"

- You can also conveniently start the NeuraScanner software using the icon on your Desktop.



Note: *NeuraView is licensed directly to the NeuraScanner. It needs to be used in conjunction with the Scanner turned on and NScan software running at least once every 3 days to authenticate the licensing.*

- Under the **Raster** menu, click **Scan Image** Button**:**



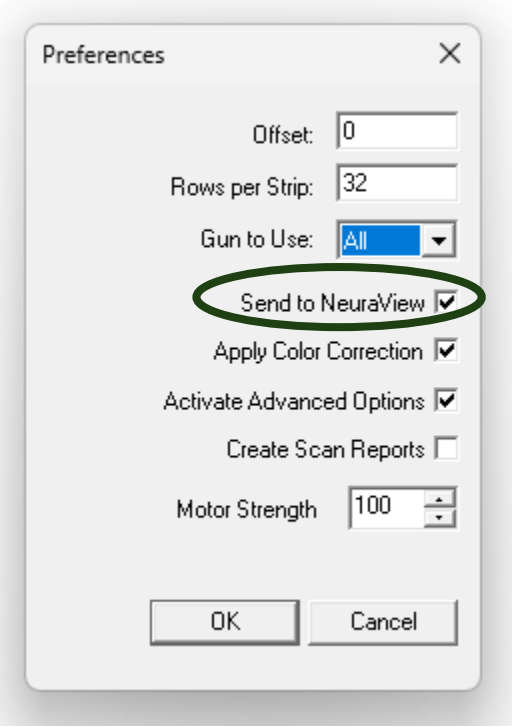
You will be prompted for a file name. The NeuraScanner software will then be initiated.

- Start Scan as usual.

- When scan is complete, NeuraView will open for review or editing.

AUTOLOADING SCANNED IMAGES TO NEURAVIEW

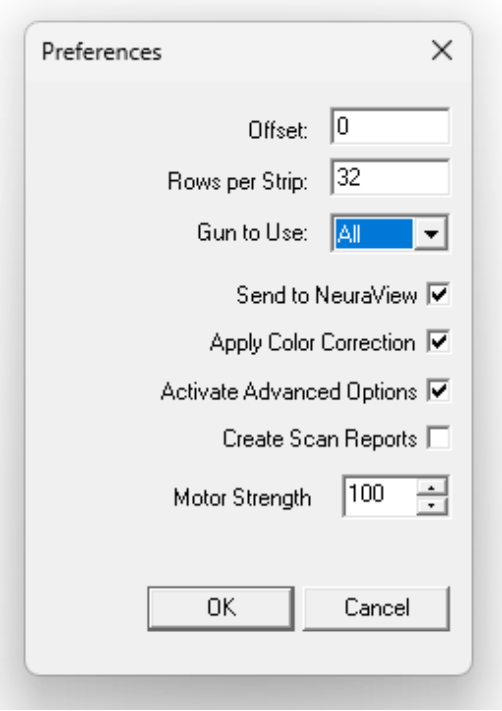
- In the Preferences panel (***Edit -> Preferences...***



- Make sure "Send to NeuraView" is toggled on.
- This setting will remain until changed again.
- When a document is scanned, NeuraView automatically opens the file just scanned for final review.

OTHER PREFERENCES

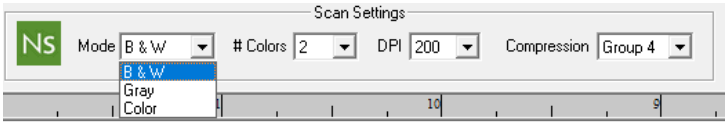
- In the Preferences panel (***Edit -> Preferences…***



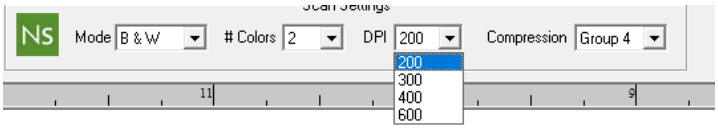
- Offset – How many inches from the left the scan will be offset.
    - Used with the Film Scanning Kit
- Gun to Use – **All** Make sure the setting is All. If the setting is Red, then red lines may not scan.
- ***DO NOT*** Change the features from the Default without reading the Film Scanning Kit section and/or consulting with the NeuraLabel Support Team first.
    - Rows Per Strip – 32
    - Gun to Use – All
    - Apply Color Correction – On
    - Activate Advance Options— On
    - Create Scan Reports – Off
    - Motor Strength – 100

OPTIONS - MODE, DPI, COMPRESSION, & # OF COLORS

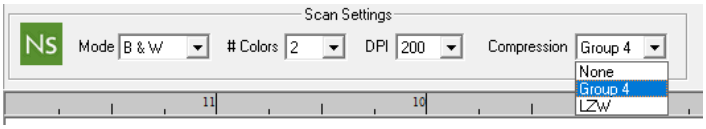
- **Mode:** Black & White, Grayscale, or Color



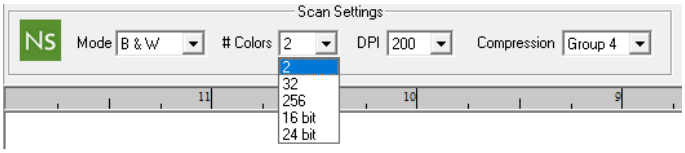
- **DPI:** 200, 300, 400, 600



- **Compression:** Color/Grayscale - LZW or None
  Black/White - Group 4 or None



- **# Colors:** Color - 2, 32, 256, 16-Bit, or 24-Bit
  Grayscale - 32 or 256
  Black & White - 2



OPTIONS – SCAN WIDTH AND LENGTH

- Refer to the ruler on the top of NeuraScanner for the media width and enter that value. Confirm width and adjust for each scan.
- Length will be Unlimited. The system allows for specific lengths for special cases.

FILM SCANNING KIT

Any NeuraScanner can be modified to scan full scale or reduced scale film. This includes both positive and negative films.

The optional Film Scanning Kit includes a backlit lid which allows transmitted light scanning, a lamp power supply, and a margin offset bar. The Film Scanning lid replaces the standard NeuraScanner lid. The margin offset bar attaches to the scanning surface and aligns the edge of the film with the lamp in the scanner lid.

Film Scanning

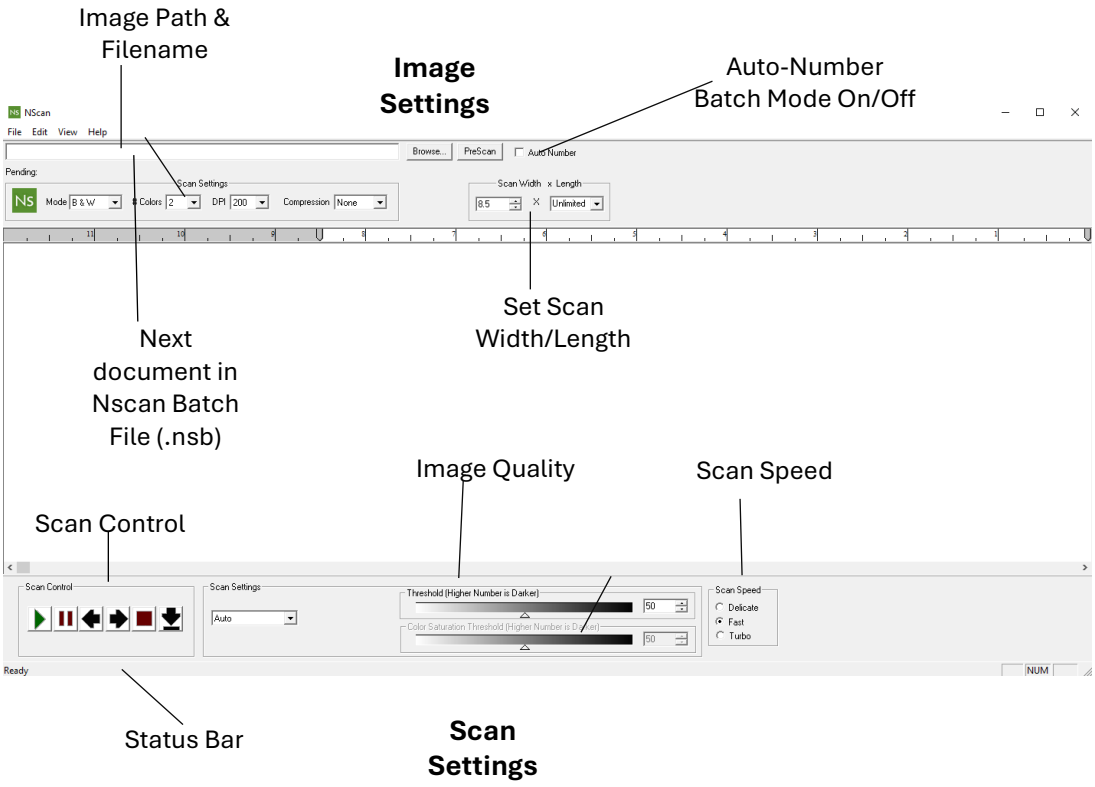
For best results the film should be placed face (emulsion side) down. The primary scanner lamp should be turned OFF, to use only the lamp in the lid. Other preferences should be set as follows.

- **Edit->Preferences… Margin** set to **.6** to account for offset bar.
- **Edit->Preferences… Activate Advanced Options** should be checked. *These options appear in the lower right corner of the main display*.
- **Invert Image** if scanning Negative Films.
- **Mirror Image** if you have chosen to scan face (emulsion side) up.
- **Lamp Off** should be checked.
- **Threshold** should be adjusted for B&W scanning. *Note: If the image is inverted, the threshold appears to have to opposite effect*.

IMPORTANT: There are many types of film. It is highly recommended that test scans be run to fine tune parameters.

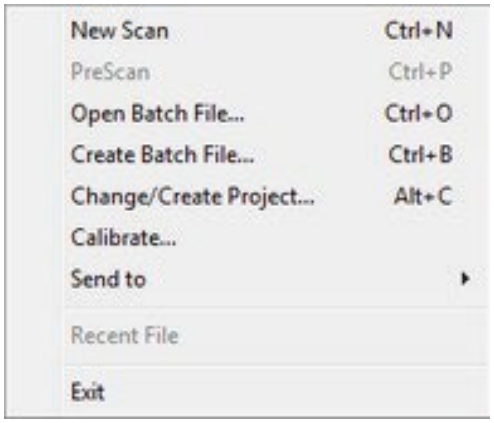
7 Software Reference

NEURASCANNER'S INTERFACE SOFTWARE



Main Menu Items

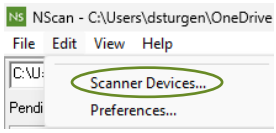
File

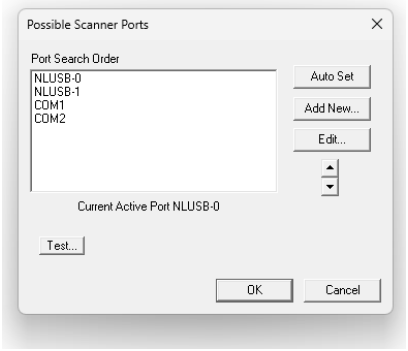


- Create New Scan Document
- Open Nscan Batch File (.nsb)
- Create Nscan Batch File (.nsb)
- Move To or Create Working Project
- Calibrate Scanner

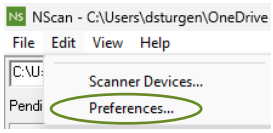
- Recent File List
- Exit

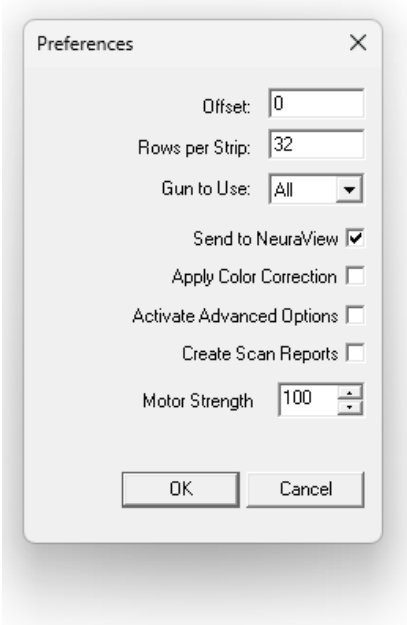
Edit - Scanner Devices





Displays list of all detected USB/ COM ports on your computer. If COM port is being used but scanner is not detected, select correct COM port and move to top of list. Close and re-open software to reset. (Default Serial is COM1).





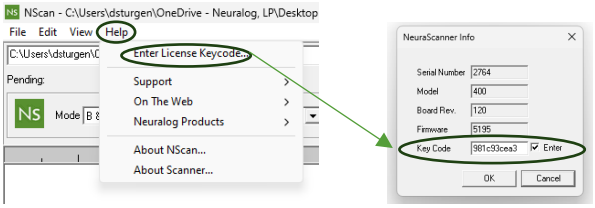
- Offset
  - *Default '0' for basic scanning*
  - *Set to '0.6' w/ Film Scanning Kit*
- Rows per Strip
  - Leave at Default value of '32'
- Guns to Use
  - Default is All
  - Leave at Default Value
- Send to NeuraView
  - Auto-Opens Scanned Image in NeuraView (optional)
- Activate/Display Advanced Options (for film scanning)
  - Mirror Image
  - Inverse Image

View

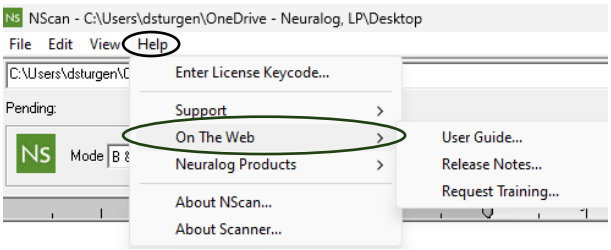
Display/Hide Stat

HELP

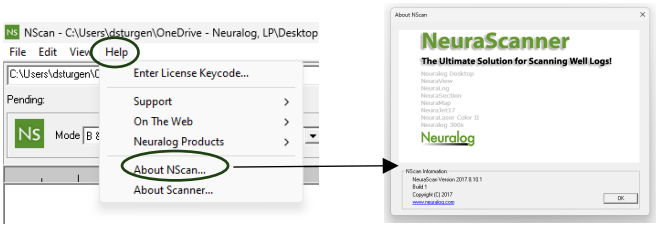
Enter License Code



User Guide / Release Notes / Training



Current Version

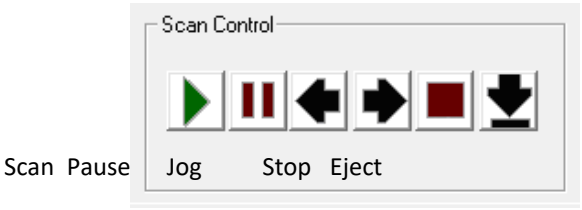


Notes the version of the software installed.

File Naming and Auto-Numbering Batch Scan Option

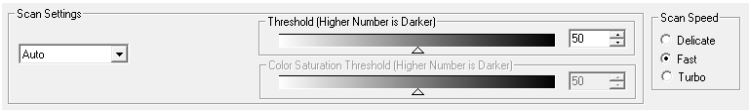
Enables user to browse to desired directory path for image file. In addition, Batch Scan option is available to auto-number filesScan Control

Software scan operation buttons.



Scan Settings

Enables user to set b/w scan thresholds and color/greyscale brightness.[3]



'**Turbo**' is a **upgrade option** that may be purchased increasing maximum black & white scanning to the speed of 10"/second. Color is approximately 8" second

* [3] Auto-thresholding interactively adjusts scan darkness/lightness. If Manual is selected, the suggested starting threshold is 60.

A System Requirements

PROCESSOR: Any modern standard PC

OPERATING SYSTEM: Windows 10 and Windows 11 with 2.0 USB Support Recommended. If your system has another USB connection, you will need to purchase a converter.

GRAPHICS: 640X480 minimum, 800X600 (or higher) with 16 bit high color.

B Troubleshooting

Scanner won't turn ON	***Verify by checking the green LED Power/Activity Indicator found on the scanner top.***
	Power Supply Cord may not be properly connected. Check connections.
	Power Cord may be bad. Try another Power Cord.
	Fuse may be blown. Check and replace if necessary. Fuse holder is behind scanner near Power Receptacle.
Paper doesn't feed properly	Paper Guide may not be properly adjusted. Slide Paper Guide so that paper slides easily through scanner but stays within track.
	Document may not be depressing Paper Lever. Make sure document is placed on scanner such that paper lever is depressed by using the Jog Button. The Paper Lever is located on the top side of the scanner under the Scanner Lid, about 1.5 inches from the right edge of the scanning
Scanner will not scan or scans erratically	Cable may be loose. Check cable connections.
	Scanner may be in undefined state. (Unlikely but possible.) Turn scanner power Off. Close Scanner Software. Turn scanner back On. Restart Scanner Software.
Image is bad or no image	***Document may not be placed in scanner properly.***
	Check to see that document is placed face down.
	Make sure document is placed on the Right-Hand side of the paper guide.
	Make sure the document is depressing the Paper Sensor Lever.
	The scanner resolution may be set too low.
	Check the resolution setting. 200 dpi is recommended for most well logs. If the well log original is poor, 300 dpi may be needed.
	The scanner started in the incorrect mode.
	Turn scanner off for about 60 seconds to reset internal mode settings.
Part of the log image is missing	The Scan Width Setting in the software may be incorrectly set. Check the software setting and set it to the desire scan width.
Image is too light/too dark	The Thresholding may need to be adjusted. To lighten the image, decrease the thresholding. To darken the image, increase the thresholding.
Scan stops after only a few inches	It is possible the paper is not properly pressing down the paper sensor lever. Check to make sure it feeding correctly.

Scanner Not Found	Unplug USB cable from the scanner and plug back in. Your computer will detect new hardware and ask for drivers to be installed. If this does not work, tray a different USB port or USB cord.

C NTSTest Report No. A 0522-CE

Test Summary

This test record demonstrates "CE" Mark compliance with the following EMC requirements for the ***NeuraScanner.***

- ***Emissions***

  European Regions:

  - EN55022 Class B Emissions (Radiated & Conducted)

  North America Regions:

  - CFR 47, Part 15, Subpart B, Class B, FCC Emissions
  - ICES-003 Issue 2, Rev. 1, Class B ITE Emissions

- ***Immunity***

  European Regions:

  - EN 50082-1,98 Immunity:
    - EN61000-4-2:95, ESD, ± 8 kV Air, ± 4 kV Contact
    - EN61000-4-3:95, RF Immunity, 3V/m
    - EN61000-4-4:95, EFT, 1kV
    - EN61000-4-6:95, Conducted Susceptibility, 3 Vrms

This device complies with applicable FCC Rules.

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