



Quick Start Guides

Rev 1-052126

Congratulations!

You are about to set up one of the most compact and efficient dental 3D printers available. This guide contains everything you need to get started with NanoPrint.

We are excited to see how you use it to impact patient lives!

Training and Support

SprintRay University provides personalized virtual and in-person courses. Discover more at sprintrayuniversity.com

If you have questions, reach out to SprintRay:

- . Visit support.sprintray.com
- . Chat sprintray.com/chat
- . Email support@sprintray.com

Sign Up with SprintRay

Your SprintRay account is used for everything from sending print jobs, ordering designs, and purchasing consumables.

Sign up at account.sprintray.com

Note: You will need an active account to send print files to your NanoPrint.

Order Consumables

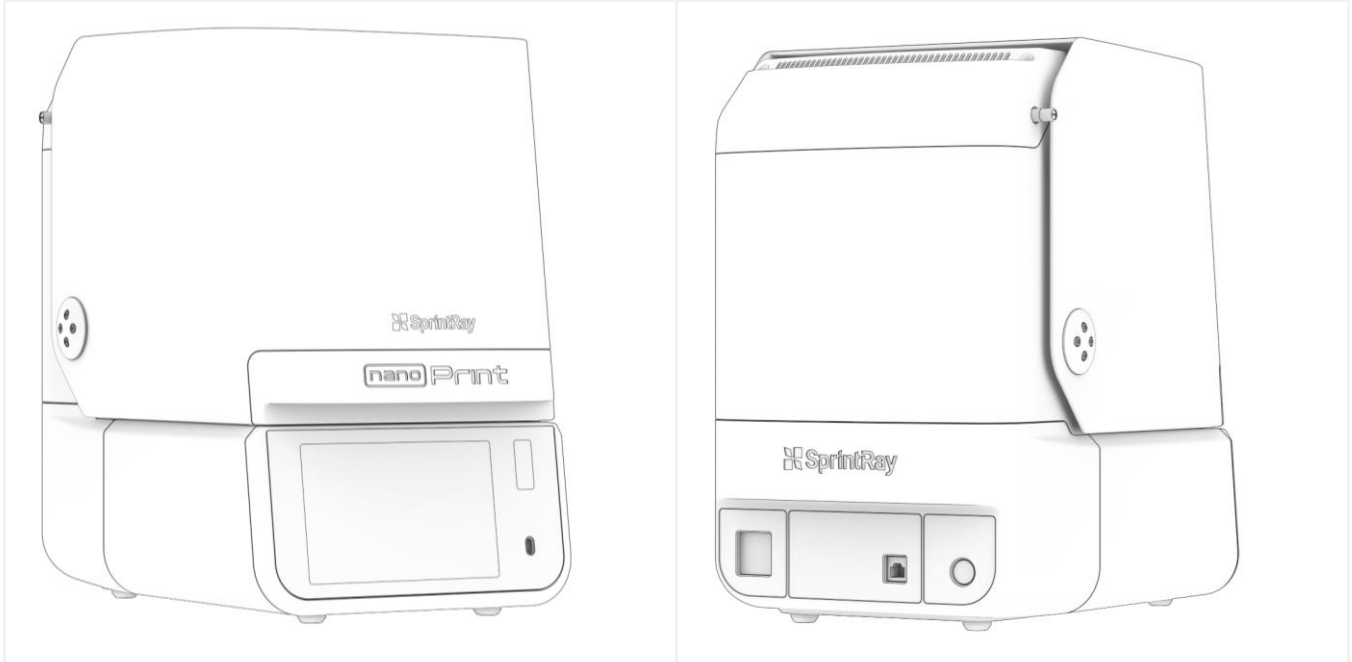
Visit the SprintRay store to order resin, tanks, and accessories for your NanoPrint.

Visit store.sprintray.com

Order Appliance Designs

Submit scan files and patient information to receive 3D designs ready to print. Available treatments include occlusal guards, surgical guides, clear aligners, hybrid dentures, crowns, removable dentures, smile designs, veneers, bleaching trays, and more.

1. Unbox



What's in the Box

NanoPrint ships with the following items. Locate each before proceeding.

Standard Equipment (included):

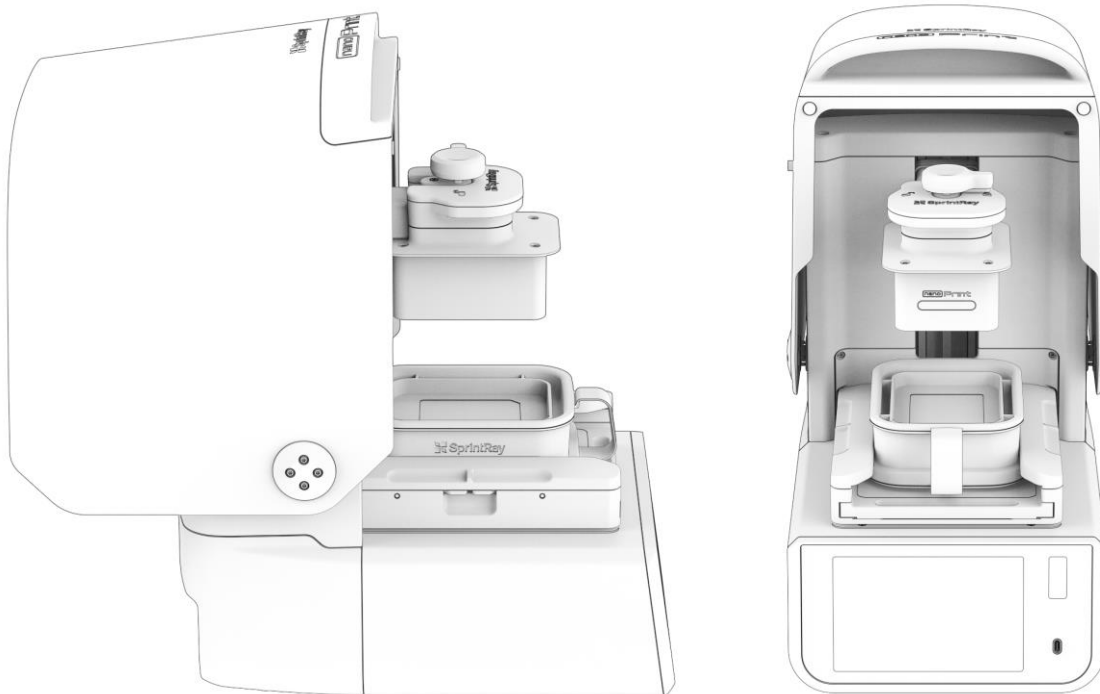
- . NanoPrint 3D Printer
- . Build Platform -- preinstalled on printer arm
- . Resin Tank and Lid -- preinstalled in printer
- . Optical Panel -- preinstalled inside printer
- . Resin Wiper
- . Print Removal Tool
- . Support Snipper
- . Cleaning Cloth
- . Gloves
- . Documentation
- . Power Cable



Note: Optional accessories are sold separately. Visit store.sprintray.com

2. Hardware Overview

Use the labeled diagram below as a reference throughout this guide. Each component is identified by its letter designation (A-J).



A -- UV Lid

The UV lid encloses the build area during printing. Keep it closed whenever a print job is active. The lid locks automatically when a print begins and unlocks when the job is complete.

B -- Ergonomic Handle

Use the handle to open and close the UV lid. Clean with IPA 91% and a soft towel.

C -- Build Platform

The build platform is where printed parts are formed. NanoPrint uses a magnetic lock to align and hold the platform in place.

Build Platform Lock

Removal: Turn the knob counterclockwise to unlock, then pull the platform toward you.

Installation: Slide the platform onto the arm, then turn the knob clockwise to lock it in place.

Platform Heating

The build platform is equipped with a built-in heater. It may be warm to the touch. This is normal.

Platform Maintenance

Keep the platform clean and do not gouge it with sharp objects when removing prints. Do not drop.

D -- Resin Tank

The resin tank holds liquid resin during printing. NanoPrint uses compact slide-in tanks. Full care instructions are in Section 3.

E -- Optical Panel

Located beneath the resin tank, the Optical Panel is the heart of NanoPrint. It must remain clean at all times. Full instructions are in Section 4.

F -- Touchscreen

The touchscreen lets you create and manage print jobs, track consumables, and follow step-by-step instructions for key workflows.

G -- Power Button

Press to turn NanoPrint on. Press again to power off or restart. Press and hold for 5 seconds to force power off.

H -- Power Port

Use the provided power cable to plug NanoPrint into an uninterrupted power supply or surge protector.

I -- USB-C Port (Offline Printing)

If you experience connectivity issues, download print jobs to a USB drive, then plug into NanoPrint to print without a network connection.

J -- Barcode Scanner

NanoPrint uses barcode scanning to track resin usage, expiration dates, and other material information. The touchscreen will guide you through scanning when you add resin.

3. Resin Tank

The resin tank holds liquid resin during the printing process. NanoPrint uses compact slide-in tanks. When not printing, always cover the tank with the included lid.



Note: Always wear gloves when handling uncured resin.

Do

- . Use one tank per resin type
- . Keep away from light
- . Hold by the handles
- . Cover when not in use
- . Wear gloves while handling
- . Store on the tank tray when outside the printer

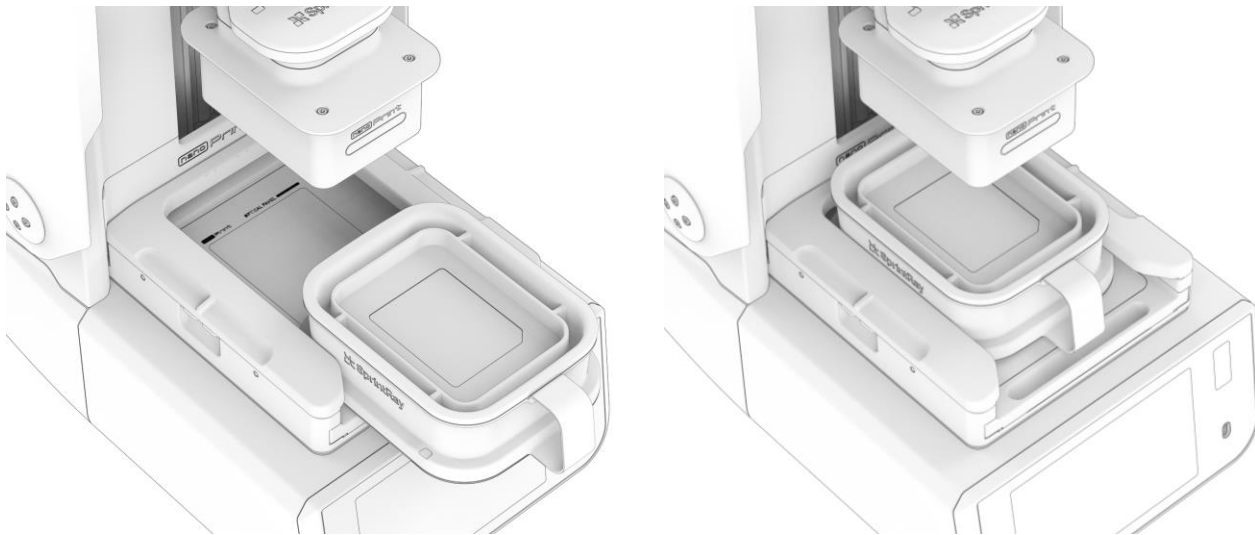
Don't

- . Change resin type without a new tank
- . Touch the film or underside
- . Use sharp objects near the tank
- . Puncture the film
- . Overfill beyond the MAX line

Installing the Resin Tank

Slide the resin tank into the built-in adapter in NanoPrint until it clicks into place. Follow the onscreen instructions to assign resin to the tank.

Note: NanoPrint does not require a separate adapter installation. The adapter is built into the printer.



Tank Lid

Remove the lid before printing. Reinstall it when you are finished printing for the day. This helps preserve the life of your resin.

Tank Tray

Always place the tank on a tray when it is not installed in the printer. This protects the sensitive film on the underside of the tank.

Pour Resin into the Tank

To activate a new resin tank, follow the touchscreen instructions to scan the bottle or select the resin type manually. Pour resin directly from the bottle into the tank, filling until the resin reaches the MAX line.

Note: Do not overfill. NanoPrint tanks hold up to 150 mL.

Check Tank Before Printing

Before each print job, use the included resin wiper to stir the resin and check the bottom of the tank for cured resin or debris. Mix until the resin is uniform in color.

Note: Mix until the resin is uniform in color.

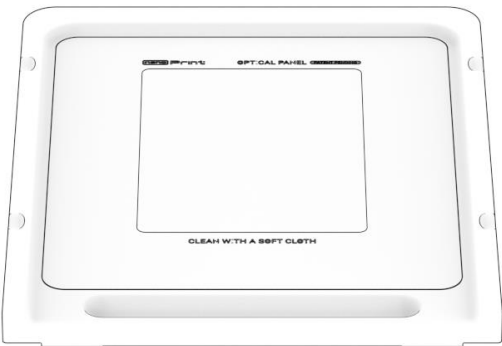
Consumable Product

Your NanoPrint monitors resin usage and the health of your resin tank. The touchscreen will notify you when it is time to replace the tank.

WARNING: Failure to replace your resin tank in a timely manner may cause damage to your printer that may not be covered under warranty. For best results, keep an extra tank on hand and do not switch resin types.

4. Optical Panel

The Optical Panel is a long-term consumable item located beneath the resin tank. You can track its health and usage via the printer touchscreen.



Note: Only replace the Optical Panel when directed by the printer touchscreen or by SprintRay customer support.

Do	Don't
. Keep clean from dust and resin . Follow instructions on the touchscreen . Wipe resin and IPA off immediately . Hold by the front and sides	. Touch the lens beneath the panel . Use abrasive cleaners . Let IPA stand on the surface . Use sharp objects on the panel

How to Clean

To clean, use IPA 91% and a soft cloth to wipe away any resin from the top surface only. Finish with glass cleaner to remove all streaks and dust. Never touch the lens beneath.

[Fig. 4-F] Cleaning the Optical Panel -- IPA cloth on top surface only

Replacing the Optical Panel

When the printer notifies you that it is time to change the Optical Panel, follow these steps.

Note: Always wear gloves when handling the Optical Panel.

1 Unlock the Optical Panel

Open the four tabs recessed into the sides of the cradle.



2 Remove the old Optical Panel

Slide the old Optical Panel toward you to remove it. A bit of force may be needed.



3 Install the new Optical Panel

Slide the new Optical Panel into place until it sits flush. A bit of force may be needed to seat it fully.

4 Lock the Optical Panel

Close the four tabs in the cradle to lock the Optical Panel into place.



Note: Purchase replacement Optical Panels at store.sprintray.com

5. The 3D Printing Workflow

This section provides an overview of the printing workflow. The best way to learn is by doing -- when you first power on NanoPrint, you will be prompted to complete a first-time print that walks through each step in detail.

1 Prepare the Printer

Add Resin and Stir

Install a resin tank with the material you would like to print. Make sure it is filled to the MAX line. Use the included wiper to stir the resin and confirm there is no hardened resin in the tank.

Check the Build Platform

Remove the build platform and run the scraper along the surface to remove any bits of uncured resin. Reinstall the platform and confirm it is locked in place.

Close the UV Lid

Keep the UV lid closed when you are not directly accessing the build area.

2 Start a Print Job

Send Files to the Printer

The best way to send print jobs to your NanoPrint is through SprintRay Cloud. You can build your own jobs with RayWare or directly print designs ordered through the Cloud Design service.

Visit account.sprintray.com to see your options. Once you have sent a job, check the printer touchscreen for further instructions.

Start the Print Job

Use the touchscreen to find or build the print job you would like to run, then follow the onscreen instructions to complete the final checks.

Once you start the print job, the UV lid will lock and the platform will begin to heat the resin. You can follow the progress on the touchscreen.

3 Remove the Print

Remove the Build Platform

When the print job is finished, the build platform will rise to the resting position. Turn the knob counterclockwise to unlock the platform, then pull it toward you to remove.

Remove the Printed Part

If you are printing with supports, you should be able to remove the model by hand. If you are printing something flat, use the provided scraper to remove the print.

4 Ready the Printer

Clean the Build Platform

Use the scraper to remove any hardened residue left on the build platform, then spray the surface with IPA and wipe it down with a soft cloth. Make sure there is no debris.

Reinstall the Build Platform

Once clean, slide the build platform over the build arm, then turn the knob clockwise to lock it into place.

Cover the Resin Tank

When you are finished printing for the day, secure the included resin tank cover to help preserve the life of the resin.

End-to-End Workflow

NanoPrint is designed to work best with SprintRay washing and curing devices for automatic handoff and processing profiles.

Visit sprintray.com to learn more about post-processing devices.



SprintRay NanoPrint 3D Printer
Supplemental Product Safety Sheet

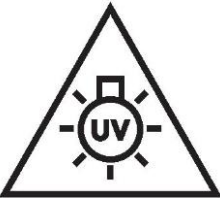
Rev1-052026
Model
SRP2410A

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Operating Requirements

Environment	NanoPrint 3D printer is intended for indoor use only. Place the 3D printer in a well-ventilated environment on a level, flat surface. Ensure the device is kept away from direct sunlight, windows, extreme temperatures, and bright UV light sources.
Altitude	The operating altitude is between -15 m to 2,000 m {-50 ft to 6,561 ft)
Temperature	The operating temperature is between 21 °C to 29 °C {70 °F to 85 °F)
Power Requirements	We recommend an independent 100v-240v outlet for NanoPrint 3D printer. NanoPrint 3D Printer draws 400 watts of power.
	WARNING Failure to meet these requirements may impair Pro 3D printer to be performing according to SprintRay advertised specification.

Safety Measures

Protective Gear	We recommend wearing gloves while handling the 3D printer and materials.
Materials and Handling	Direct exposure to methacrylic based materials may cause skin irritation. Always wear gloves while handling the materials. Please refer to resin Material Safety Data Sheets for safe handling, storing, cleaning, and disposal of resin materials available to access from sprintray.com/sds
 UV Exposure	WARNING Direct exposure to UV light may cause eye irritation. Avoid looking directly into UV light emitting from the 3D printer Optical Panel without eye protection.

Cleaning and Maintenance

We recommend cleaning the 3D printer often, especially the Optical Panel on the printer to ensure optimal print conditions. In the case of resin spillage, first remove the spillage and then clean the printer with IPA and soft cloth. For more information, visit support.sprintray.com or consult SprintRay customer support.

Failure to clean and maintain the 3D printer according to SprintRay standards may cause damage to the equipment.



Technical Specifications

Models	SRP2410A (Indoor Use Only)	Power Input	100-240V A.C.
Dimensions (W x D x H)		Operational Frequency	50Hz or 60Hz
Net Weight		Main Supply Voltage Fluctuation	±10%
Humidity	85%	Pollution Degree	Degree 2 device
UV Emissions	Risk Group 1		
NanoPrint Connectors	• USB Type C, used for performing manual updates • Power, used with the power cable to power the device • Ethernet, used for connecting to a network with an ethernet cable.		
Component Revision	NanoPrint components may be labeled with a revision number. Revisions to components may be necessary as materials and processes evolve. "Rev-01" indicates the first version of the component with subsequent revisions ascending e.g. "Rev-02," "Rev-03," "Rev-04."		

FCC Warning

This device complies with 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. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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 into 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.



This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated at a minimum distance of 20 cm between the radiator and your body.

ISED Canada Compliance

The device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Operation of this device in the band 5150-5350 MHz is restricted to indoor use only. operating in the band 5150–5250 MHz shall only be used indoors to reduce the potential for harmful interference to co-channel mobile satellite systems

The device is compliance with RF exposure guidelines, users can obtain Canadian information on RF exposure and compliance. The minimum distance from body to use the device is 20cm.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

L'utilisation de cet appareil dans la bande 5150-5350 MHz est limitée à un usage intérieur.

L'utilisation dans la bande 5150-5250 MHz est également limitée à un usage intérieur afin de réduire les risques d'interférences nuisibles avec les systèmes de téléphonie mobile par satellite utilisant la même fréquence.

Cet appareil est conforme aux directives relatives à l'exposition aux radiofréquences. Les utilisateurs peuvent consulter les informations canadiennes sur l'exposition aux radiofréquences et la conformité. La distance minimale entre l'appareil et le corps est de 20 cm.