



JUNIORFOOD

FLATBED CONFECTIONARY PRINTER



USER MANUAL

Thank you for choosing!

If you have any questions, please contact
<https://mprint-dtg.com>

Precautions

Do not use the unit in dusty, damp, explosion- and fire-hazardous areas with faulty wiring.

Do not connect the device to a power supply network with parameters other than those specified.

The device must be connected to the mains with grounding and stable parameters specified in the specification. Use a stabilizer and normalizer for networks with poor characteristics.

It is forbidden to disassemble, hit, turn the device upside down. Repairs should only be carried out by qualified personnel.

Do not insert, pour objects or liquids other than those specified in this manual.

It is forbidden to push the table manually or touch it while the device is moving and turned on.

The device is equipped with a visible spectrum (red) laser emitter. Do not look at the source or place any object that could reflect the beam. Keep children away from the device during operation.

Not for children under 12 years of age.

Specification

- Print area dimensions: 20x30 cm
- Maximum height of the product to be printed: 80 mm
- Number of colors: 4 colors (CMYK)
- Ink pumping: manual, automatic
- Device maintenance: not required
- Dimensions of the workplace (WxH): 45x50 cm
- Power supply: 230V 50/60Hz 50W

Supply kit

- Power cord with grounding, 1 pc
- USB cable, 1 pc
- Operating instructions, 1pc

Description

MPrint JuniorFood is an automatic digital printing device of flatbed type, printing directly on the product (direct printing), by applying liquid edible ink on the upper surface.

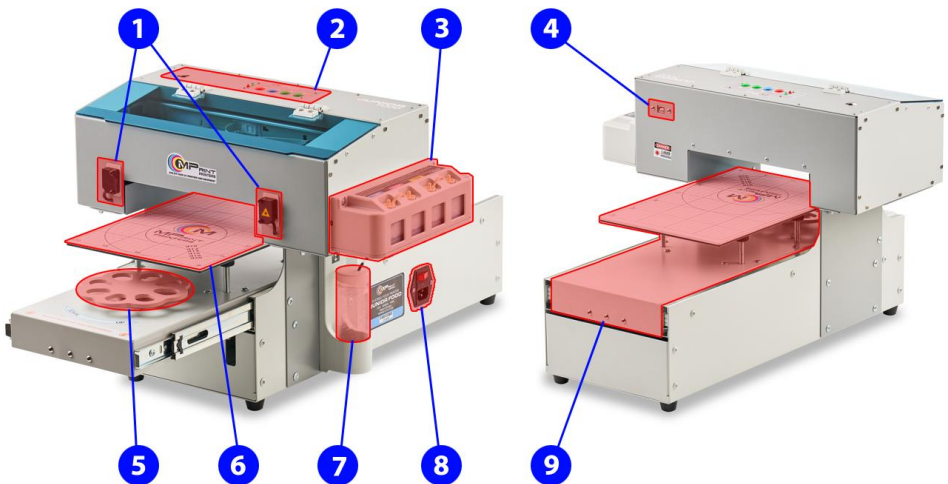
The device is ready to print with edible ink on various confectionery products: cookies, gingerbread, cakes, pancakes, chocolate, edible paper, etc.

The main requirement for the product is a flat top surface. A height difference (unevenness) of up to 5-7mm is allowed.

The printer is equipped with a laser level to help manually adjust the height of the table to obtain the best quality printed image. Also with the help of the laser level is realized protection against damage to the printer.

The device consists of the following main parts:

1. Laser level
2. Control panel
3. Ink tanks (CISS)
4. Computer connection connector
5. Wheel for adjusting the table height
6. Product table
7. Wasted ink tank
8. Main plug and power switch
9. Sliding table



Do not touch the laser level. Doing so may throw off its setting and the device will not operate correctly.

When carrying the device, do not grasp the movable table, product table, or ink tanks! Grasp only the bottom of the device or the corners of the gantry at the front and back.



The printer control panel has 5 buttons:

1. Power
2. Start/Stop
3. Clean
4. Forward
5. Backward

There are 3 indicator lights:

1. Power (green)
2. Power (green)
3. Status (orange or red)

First power on

After unpacking the device, check the integrity of the case and component parts. There should be no visible damage.

Place the device on a flat horizontal surface. The device should stand firmly, it should not wobble or sag.

Gently, slowly and without effort move the sliding table back and forth. Make sure that the table can move freely and that there is no damage during transportation.

Make sure the wasted ink tank is in place and the tube is pointing into it.

Make sure the ink tanks are intact and free of damage.

Set the power switch to the "0" - Off position. Plug the power cord into the side of the product. Turn the power switch to the "1" position - On.

After the power is turned on, the device will initialize the sliding table and the table will start moving to the rear endpoint. At this time, the Status light will begin flashing approximately 10 times per second.

There may be objects on the product table during initialization, so when the table moves backwards, if the laser level is crossed by anything, the table will automatically stop and a short beep will sound. Use the height adjustment wheel to lower the product table so that the object on the table is guaranteed to fit in the gantry of the device. If the object on the table is higher than the maximum height allowed for the device and the table is lowered to the lowest point, initialization will be aborted because there is a tall object on the table. If there is no object on the table at initialization, but the unit stops the moving table, then refer to the troubleshooting section of the manual.

When the movable has finished initializing, a beep will sound and the Status LED will turn off.

After that you should press the Power button. This will turn on the printing part of the device. Initialization of the carriage and other things will begin.

Now it is necessary to fill the ink tanks with edible inks. To do this, you need to open the filler necks and fill inks according to the color on the label of the containers. On the side of the containers there are windows for observing the ink levels. These windows have minimum and maximum level marks. Fill the ink to the maximum mark. During operation, make sure that inks is always in the tanks, i.e. the level should be between the minimum and maximum marks. If ink runs out and does not flow to the printhead, it will cause air to enter the system and possibly dry out the print nozzles.

After the ink is filled into the containers, they must be sealed with lids.

If the device is shipped without the system filled by the manufacturer, you must fill the continuous ink supply system (CISS). To do this, make sure that only the green "Power" indicator is lit constantly (not in the button!), the carriage is in the far right position stationary.

On the control panel, press and hold the "Clean" button. A beep will sound and the pump that sucks ink out of the printheads will turn on. While holding down the "Clean" button, you can watch the ink move through the tubes from the tanks into the carriage.

We recommend holding the "Clean" button for 10-20 seconds, then release it and repeat after 10-20 seconds. In this mode, there is no risk of damaging the printheads during the time when the pump is not working.

Pumping should be continued until there is a constant flow of ink into the waste ink tank. This indicates that the ink from the tanks has filled the tubes, filled the internal adapters in the printhead and passed through it.

This completes the preparation for the first print. You must install the required software on your computer (Computer Setup section)

Turning on and off

To turn on the device, connect the power cord and turn the power switch to the "1" position.

After initialization, if the "Power" indicator is not lit or flashing, then press the "Power" button.

When initializing, the sliding table always starts moving backwards, if this does not happen or an extraneous sound is heard, then turn off the power and refer to the troubleshooting section of the manual.

The laser level is always used when moving backwards.

When you have finished using the unit, press the "Power" button, wait until the "Power" indicator (in the button) goes out and then turn the power off with the switch to the "0" position.

Computer Setup

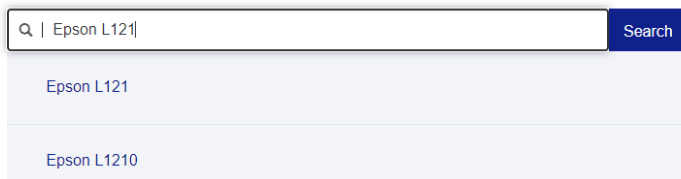
In order to use the device for printing, you must have a computer and the device driver installed on it. The device

uses Epson printheads, so installation of the appropriate drivers is required.

The driver installation and setup procedure for Windows users is described below. Apple computer users use the standard print driver that is available in the operating system.

Before starting this section, the device must be turned on with only the "Power" LED lit. After that, download the driver from the official Epson website: epson.eu. On the site you need to select Support in the main menu at the top, enter "Epson L1270" in the search:

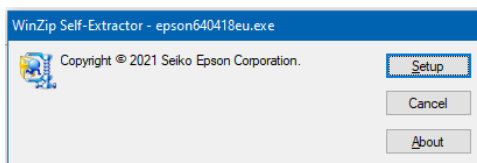
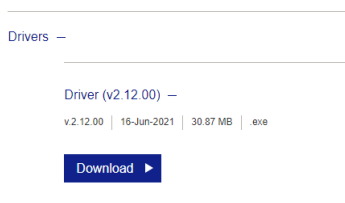
Search by Product Name



A screenshot of the Epson website's search interface. At the top, there is a search bar with the text "Q | Epson L121" and a blue "Search" button. Below the search bar, a list of results is displayed. The first result is "Epson L121" and the second is "Epson L1210".

Select "Epson L1270" from the list.

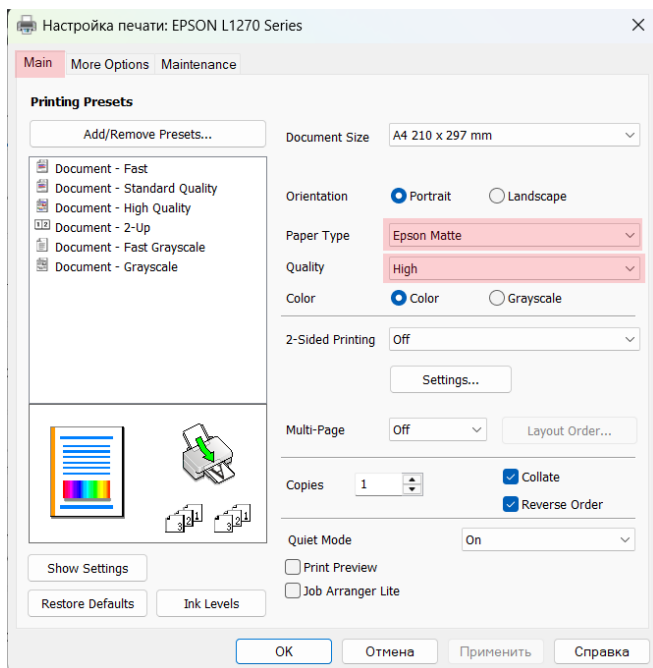
The page with the selected model will open. Go to the Drivers tab, click the Download button. After downloading, start the installation procedure.



Click the "Setup" button and select the region. Read the license agreement and accept it. After that the search for connected printers will start. Connect the printer to the computer with a USB cable. The installer will finish setting up the port and driver on the computer.

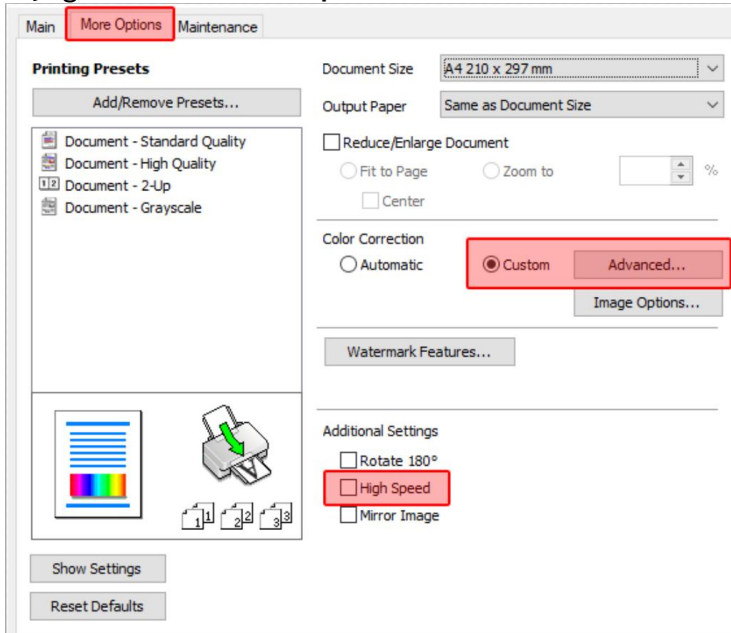
Once the installation is complete, the driver and printer will be ready, but additional settings will be required for high quality printing. To do this, go to the driver settings:

1. Press *Win+R*
2. Type «*control printers*»
3. In the window that opens, find "*Epson L1270 Series*" and right-click on it
4. Select «*Print Settings*»



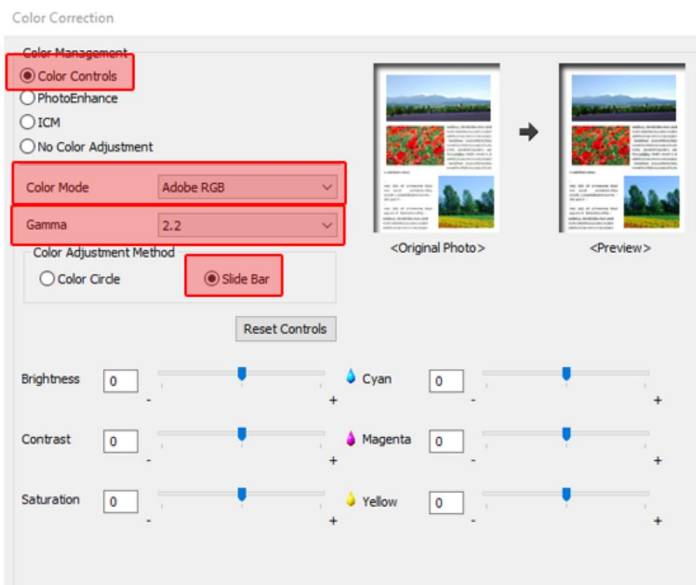
The Settings dialog box appears. On the Main tab, set Print **Epson Matte** as **High**.

Next, go to the **More Options** tab.



It is necessary to deselect **High Speed**.

In Color Correction, select Custom and then click **Advanced...**. A window with color correction settings will appear. Here you can adjust the colors when printing. It should be noted that many factors affect the color reproduction of the print, such as ink, printing surface, quality of the image to be printed, the program through which the image is sent to print. The default settings can be set as follows:



At the bottom of the window there are 6 sliders that can be used to manually adjust the color reproduction if necessary.

Click OK and OK again to save the print settings in the driver. The printer is ready to work.

Operating procedure

To work the device must be filled with inks, power cord, USB cable is connected, software is installed on the computer.

After turning on the device, the sliding table is in the rear position - the start position. Press and hold the Forward button to move the table forward to the loading position.

If you want to move the table backward, press and hold the "Backward" button.

With the table forward in the loading position, place a sheet of food grade paper on the table, and lay out the items to be printed. Note that the sheet of paper should not slide freely across the table to avoid shifting during printing and subsequent rejects.

After placing the products on the moving table, press the "Start/Stop" button. A beep will sound, the "Status" indicator will flash and the table will start moving backwards, scanning the level at the same time. If the item crosses the level, it means it is above the printhead level, so the table will automatically stop and a beep will sound. It is necessary to use the wheel to lower the slide until the table continues to move.

If you need to interrupt the operation, press the Start/Stop button. The table will stop.

When the table is fully back in the start position, a beep will sound and the "Status" indicator will be on continuously. To cancel - press "Start/Stop".

***Important:** The laser level only reacts to parts that can hit the printhead. If the item is significantly below the desired level, the device will not be able to detect this and the print quality will be poor. We recommend that you raise the product table a little higher than the intended level before printing, then the laser level will help to adjust the height of the products.*

The printer is ready to print. Send the image from your computer to print. Printing will begin, a beep will sound and the Status LED will blink slowly. During printing, the table will move in synchronization with the image being printed. When printing is complete, the table will fully extend to the loading position, a beep will sound, and the Status LED will go out. Printing is finished.

If you want to cancel printing, press the "Start/Stop" button.

The device has an auto-start function, so if there is a print job in the print queue, the printer will start printing automatically when the moving table is ready.

To get the image onto the product evenly, two options are recommended. The first option is to use the grid printed on the product table and use templates in programs with the same grid. This option is quick, but may not be accurate enough. The second option is to put a blank piece of paper and make a print on it. You can print the whole picture or just the outline of the image. Then put the items to be

printed on this sheet. This method is the easiest and most accurate.

Maintenance

Keep the device clean and in a dry place. After use, wipe the sliding table with a soft, wet cloth. If not used for a long period of time, pull out the power cord.

There should be no extraneous sounds or noises during operation. If there are any, contact customer service.

During operation, the printer performs periodic automatic cleaning. During this process, the pump turns on and pumps inks through the printheads. The pumped ink is wasted ink and is discharged into a special container. Therefore, you should monitor the level of this ink and periodically empty the tank.

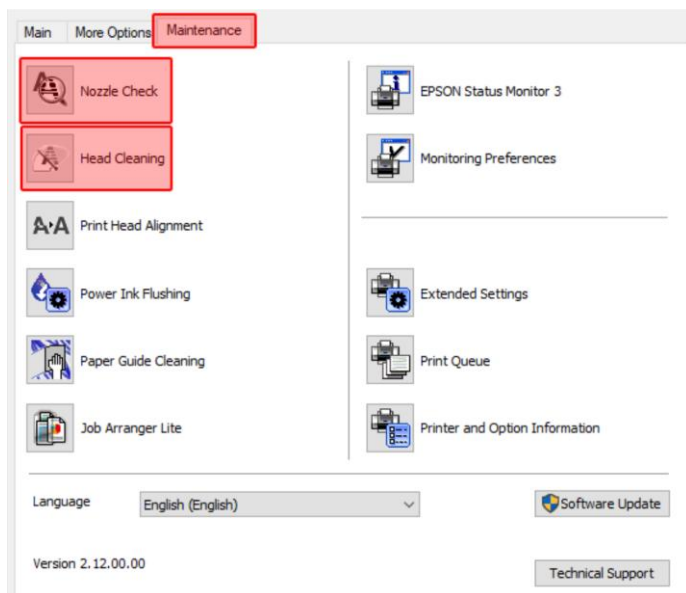
To fill the device's CISS with ink, open the ink reservoirs and pour the ink. After filling, you need to close the lids. Keep the level in the reservoir between the upper and lower limit marks.

If you need to replace the ink, you must first drain the ink from the ink tanks, then press the "Clean" button and hold it down until ink flows into the waste ink tank. When the ink stops flowing into the tank, the ink is completely drained from the system. You can fill other ink into the tanks and perform the ink pumping procedure as you did the first time.

During operation, the bottom of the printheads may become dirty and the ink may dry on the outside. This may cause the print quality to deteriorate, especially on small details or solid colors - the pattern will be streaked. To correct this, press the "Clean" button for 3-5 seconds. Note that the carriage should be in the right position at this point.

This operation will turn on the pump and do a little pumping of the ink, which can clean the heads.

If this procedure did not help and the prints are still with defects, then you need to run cleaning through the device driver on the "Maintenance" tab click "Head Cleaning". After cleaning the driver will offer to print a nozzle test. Put a clean white A4 sheet of paper and print a sample. Follow the driver's instructions.



Avoid frequent cleaning of the printheads through the driver, as this will increase the printer's internal counters and will require resetting the wasted ink through the service program. If this is required, contact technical support for assistance. We recommend using the "Clean" button and printing test images, as printing may clear blocked channels in the heads.

If you need to transport the device, make sure that the ink tanks are closed and the carriage is in the rightmost position.

If the device is to be shipped by transportation companies, it is also necessary to drain the ink tanks to prevent ink spillage when the device is turned upside down.

The movable table cannot be moved by hand when the device is switched on, but it may happen that the table was moved during operation. In this case, the device must be reinitialized, that is, the power must be turned off and on. Remember, to turn off the power with the switch in position "0", it is necessary that the green indicator "Power" (in the button) is not on. Otherwise, press the "Power" button and wait.

After power on, the sliding table will calibrate the position and the device will be ready for use.

Troubleshooting

The device has several ways to show what error has occurred. Some errors can be solved by the user, but some require a service assistance.

Errors fall into two categories: related to the moving table and related to the printheads and system.

Possible sliding table errors and how to solve them.

1. The table does not move when the device is turned on

The "Power" indicator should light up after the unit is turned on with the power switch. If it does not light, check the fuse in the power connector.

If the "Status" light is flashing but the table does not move, lower the slide and make sure the laser level is not being overlapped by a foreign object and the laser beam is on steadily.

If the laser level is not crossed, the laser is on steady, and the "Power" light is on, then turn off the power and move the table by hand. It should move without any stuttering or jerking.

If this does not solve the problem, contact customer service.

2. When the device is turned on, the table does not move and the product table is down at its lowest point

The reason for this error is a problem with the laser level.

The first thing to do is to check and clean the laser transmitter and receiver from dust and dirt. **Attention!** *The laser transmitter has a yellow triangle sticker. Wipe the transmitter with a soft cloth and check that there is no dust on the receiver.*

If this does not solve the problem, turn the device off. Press and hold the Clean button. Turn on the power to the device. Wait for an audible beep after about 2 seconds. After that, release the button. The device will enter the laser level setting mode. In this mode, the laser transmitter will turn on and the rest of the printer systems will be in standby mode.

To test the laser transmitter, hold a piece of paper up to it. The laser will appear as a red dot in the visible spectrum.

If there is no dot, contact customer service.

If there is a dot, check the beam hitting the receiver. There is a small hole on the receiver where the laser should hit. If the beam does not enter this hole, the receiver will need to be adjusted. This will require removing the two receiver mounting screws. **Attention!** *The maximum you can turn the screws by 1.5 turns.* After loosening the screws, the receiver should be moved so that the beam hits the receiver hole, and also so that the red indicator on the receiver lights up when the laser beam crosses the receiver.

Once the receiver is aligned, tighten the screws. Press the "Start/Stop" button and the device will begin the initialization procedure at power up.

3. The table does not move out or moves in completely

When using the device or possible manual movements of the table, the table may shift. This can be noticed when the table in the loading position is not as normal, the printing on the products is shifted further away from the start.

To do this, turn the unit off and then turn it back on. The moving table will perform a calibration.

If this does not work, and the table does not move to the rear or front position when calibrating, you will need to turn off the power, and manually move the table back and forth, making sure there are no foreign objects.

If no foreign objects are preventing the table from moving, then contact customer service.

4. Printing on sugar or wafer paper leaves dirty streaks and smudges

When printing on edible paper, especially wafer paper, it warps due to moisture from the ink. Given that the gap between the printheads and the product is small, a very slight deformation of the paper sheet will cause the bottom of the printheads to be caught and consequently contaminate the surface of the sheet.

To avoid this problem, after pressing the "Start/Stop" button, when the sliding table has passed the laser level, you can use the height adjustment wheel to lower the slide table slightly.

Note that too big distance will affect the image quality.

5. Spots and blots may occur when printing on products

This is caused by ink droplets on the bottom of the print head after cleaning, and by small protrusions on the product that could not be detected by the laser level due to their size.

If this happens, lower the slide slightly after the table has finished moving to the start position and the printhead will not hit these protrusions.

You can also adjust the height of the slide table during the printing process, and thus the distance from the product to the printhead.

Attention! *But be careful that the printhead does not touch the item!*

6. The sliding table works normally, but there is no printing

If the "Status" indicator is not on, the moving table is in standby mode and is not ready for printing. Press the "Start/Stop" button. This will start the printing process.

If the Status light is on but no printing, check the print queue. The job may not have been sent to print. Also check the connection to the computer, check the USB cable.

If this does not help and the driver does not display an error, contact support.

7. The table works normally, but displays an error when printing

This is a hardware error. Contact support with the error message.

8. During printing, the heads hit the product

The device is equipped with a laser level, but this situation is possible when operating the device. In this case, turn off the machine and manually move the carriage to the center.

Inspect the bottom surface of the printheads without turning the device over. If visually there are traces of the product, moisten a lint-free cloth with washing liquid, and carefully remove the remains of the product. Never wipe the surface of the printhead where the nozzles are located. This part should be cleaned with soaking movements.

After that, turn on by pressing the "Power" button. Do the cleaning through the device driver.

If your problem is not described in this section, please contact support with a description of the situation, actions taken and any other information useful for solving the problem.