



Drive

In this menu item it is possible to set the behavior for the stop button at the top of the screen.

By default, pressing the stop button turns **off** the booster voltage.

It is also possible to perform a so-called DCC emergency stop. This can be set for all locomotives, or only for the active locomotive in the cruise control.

Attention!!!

If "Stop Loco" is set here, only for the active loco, no more full emergency stop can be triggered via the LoDi-Con.

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can be and only by pressing the rotary knob the locomotive

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"**g mode**" are presets for all newly installed locomotives. In the control mode,

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the rotary knob is switched from AC mode to DC mode (further variants follow). In the AC-Mode increases the speed clockwise and decreases the speed counterclockwise. To change direction, the rotary control must be pressed once (stop command if the locomotive is still moving). Press the rotary knob again to change the steering direction. The direction of the locomotive can also be changed directly on the touch display.

In DC mode, the rotary knob must be turned to the left to move backwards. The steering direction is still changed by pressing the rotary knob.

The driving mode can be changed from "normal" to "shunting".

This means that in the shunting mode only back to gear level 1

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"Reg mode" are presets for all newly installed locomotives. In the control mode,

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"**g mode**" are default settings for all newly installed locomotives. In the

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This means that in the shunting mode only back to gear level 1

can be and only by pressing the rotary knob the locomotive

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The last item in the menu is "factory reset".

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Here the LoDi-Con is set to the delivery state.

ATTENTION! !

All data will be deleted!

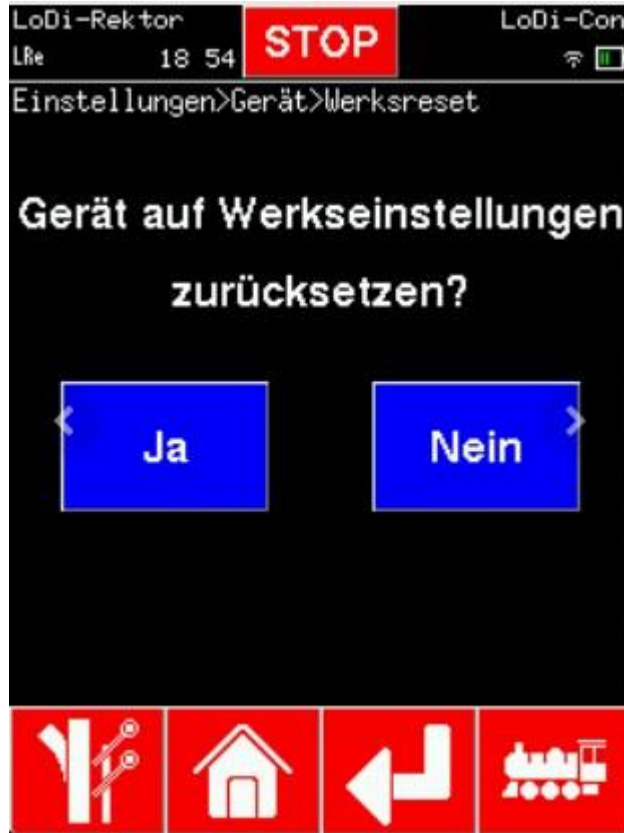
Before deleting, you can create a backup via the LoDi-ProgrammerFX, which can be transferred back to a LoDi-Con later.

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ATTENTION! !

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All data will be deleted!

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9. CV Programming

CV programming with the LoDi-Con

Program your locomotives comfortably via the LoDi-Con.

We have created the possibility to make a simple or extended CV programming in the characteristics of the locomotives. We will show you how it works with an example.

In this example we will now change the CV 3 and 4 so acceleration and braking time.

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To program a CV, you need a control panel that supports POM (programming on main) or has a programming track output. In our example we use the LoDi-Rector to write and the LoDi-S88-Commander LX to read the CVs on the plant or in a block

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To program a CV, go to the locomotive where you want to change the CV.

Now tap the "wrench" **to enter the** settings of the locomotive.
Select "CV programming".

You now go directly to the overview of the CVs: is the locomotive on the track? Is power on? then you should be able to read the CVs of the locomotive by typing "Read".

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When the CVs have been read successfully, they are shown in green. Go to "**Acceleration time**". Another dialog opens, in which you can now set the CV.

Repeat this process in the "brake time" (delay time).

The changed values are now shown in yellow. Thus, the LoDi-Con shows you which CVs it will change.

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To apply the change now in the decoder, go to

"Write changes".

The LoDi-Con will ask you again if it should write these data on the locomotive decoder. Confirm with "Yes", the data will be written.

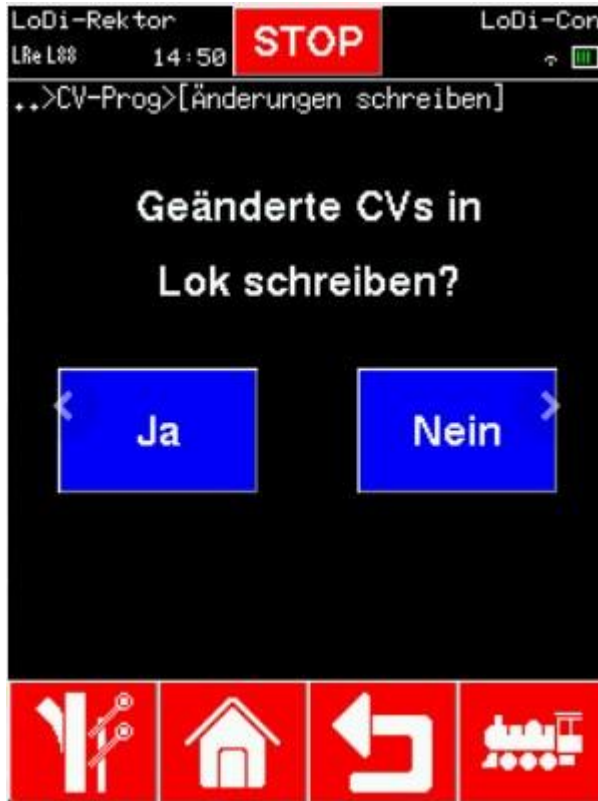
After the data has been written, the CVs are saved and displayed in green again.

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The LoDi-Con will ask you again if it should write these data on the locomotive decoder. Confirm with "Yes", **the data will be written.**

After the data has been written, the CVs are saved and **displayed in green again.**

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9 CV Programming

With the LoDi-Con you can of course also change CVs.

We tried to keep it as clear as possible and oriented to the DCC standard.

If a CV is not in our list, you can reach all CVs manually. Swipe to "CV-Register".

There you can select the CV tab as usual, enter the values and write the changes.

10. Clubmodus

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The **club** mode allows you to restrict the LoDi-Con, so that you can give up the device without having to worry about the LoDi-Con being adjusted.

Device settings, location **configurations and switching items** can be **locked**.

It is also possible to secure the LoDi-Con so that only one loco can be controlled with it.

How to set up club mode, we show you here:

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Set password

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To restrict the LoDi-Con, a password must be **assigned**. If no password is set, the

The screenshots illustrate the steps to set a password:

- Screenshot 1:** The 'Passwort' option is currently 'inaktiv' (inactive).
- Screenshot 2:** The 'PIN ändern' (change PIN) screen is shown with the PIN '1234' entered and confirmed by a green checkmark.
- Screenshot 3:** After successful setup, the 'Passwort' option is now 'gesetzt' (set).

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LoDi-Con shows "inactive" under "Password".

First, tap the "House" **icon** at the bottom of the bar.

From there, go to "**Settings**" > "**Device**" > "**Club mode**". Now you can enter a password under "Password".

The password consists of a four-digit number. You have to enter this "pin" twice before it is set.

Lock the lok

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In the LoDi-Con you can now search the locomotive menu. Select here which of the locomotives should still be selectable and controllable.

Locomotives not selected are no longer displayed in the locomotive list.



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Lock further settings



The LoDi-Con can be limited to drive only a locomotive and switch on or off.

To further restrict the LoDi-Con, there is a selection:

- **Lock switch item** = All switches are blocked
- **Lock Lok-Einst** = The Loco settings cannot be retrieved and changed
- **Device once lock** = All settings of the LoDi-Cons and the firmware update are blocked

By checking the respective selection, the setting is set.

From now on, you must enter the password you set to get into the setting.

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11. Firmware update

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The LoDi-OS is constantly maintained - especially in the first months we will regularly present updates and improvements.

You will be notified of all changes and updates in our forum, the updates for the device are available automatically.

11.Firmware update



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To install the update, first tap on the "House".

From there to "Over".

In this window you will find further menu items like:

"System information" (here the details of the version number is displayed as well as the memory used)

"Firmware update" (the currently available firmware is provided here)

"Hardware test" (here the complete hardware of the hand controller as well as battery or battery voltage can be checked.)

11.Firmware update

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"Hardware test" (here the complete hardware of the hand controller as well as battery or battery voltage can be checked.)

11. Firmware update



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If you are now in the menu "Update firmware", you will see the current version, in our case it would be v0.4.1. Below is a new version 0.4.2 available. By tapping on this the update process is started directly.

After loading the new firmware, the LoDi-Con will restart and the new firmware version should be displayed on the boot screen.

11. Firmware update

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If you are now in the menu "Update firmware", you will see the current version, in our case it would be v0.4.1. Below is a new version 0.4.2 available. By tapping on this the update process is started directly.

After loading the new firmware, the LoDi-Con will restart and the new firmware version should be displayed on the boot screen.

12. Features LoDi Programmer FX



13. Creating lok images

Introduction

The LoDi-Con allows you to integrate your own images in JPEG and PNG. These can be up to 190 x 48 pixels. In the case of PNG, even a transparent background is allowed. The following instructions describe how to create your own lok images.

GIMP

The creation of lok images is explained using GIMP. This powerful free graphics program runs on Windows, Linux and MacOS. It can be [downloaded](https://www.gimp.org/downloads/) at <https://www.gimp.org/downloads/> free.

Other similarly powerful programs can also be used for the creation of lok images.

13.Creating lok images

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Requirements for the image

The lok image can be taken with any mobile phone camera. Good illumination without shadows and highlights as well as a good image sharpness are important. Furthermore, attention should be paid to the horizontal alignment. This can be corrected later in GIMP.

A white background or a background with as much contrast as possible to the lok color is recommended. For larger collections, the construction of a light box with fixed camera mount makes sense.

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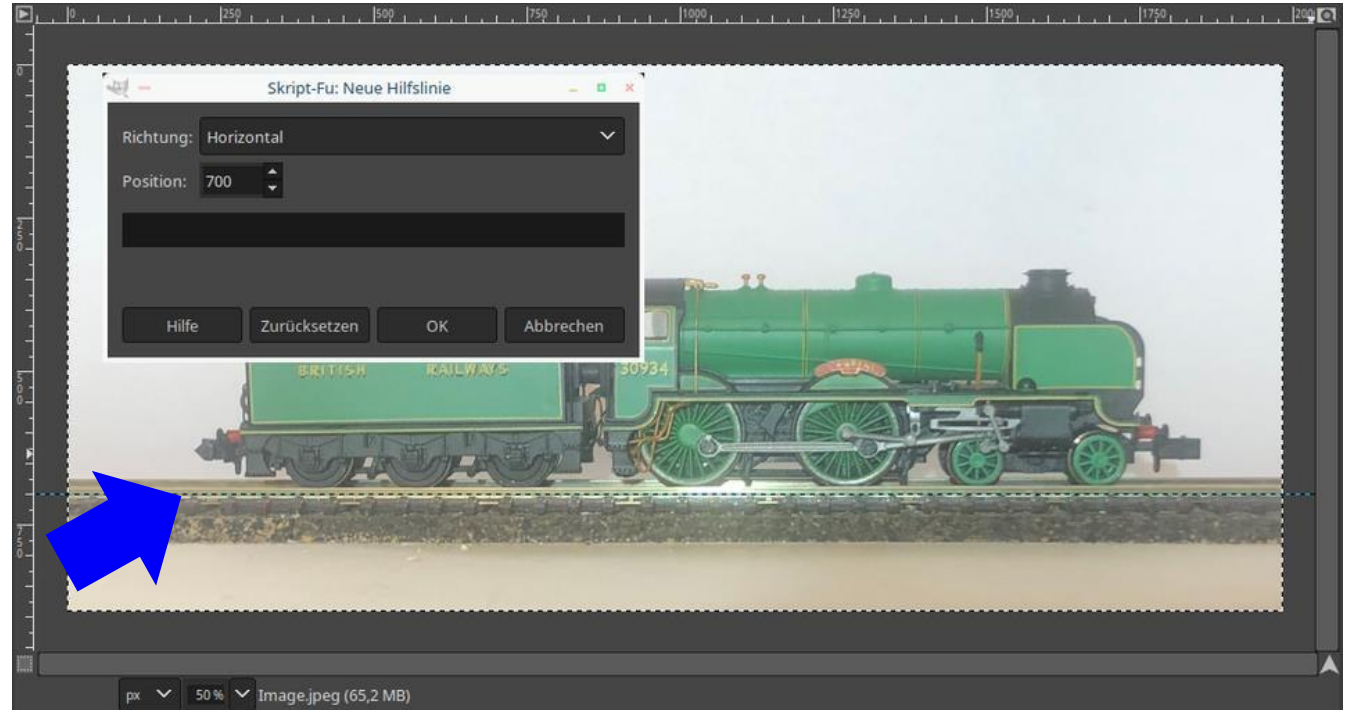
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13.Creating lok images

Processing steps

Horizontal alignment After opening the image in GIMP, it should be aligned horizontally first. First add a horizontal guide line at the level of the track: Image Guides

New guide line ... You can read the approximate position with the ruler on the left side.



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13.Creating lok images

Then select the
Menu **point image transformation**
Turn off as you like and correct the
alignment of the image by using the
guide line and track.

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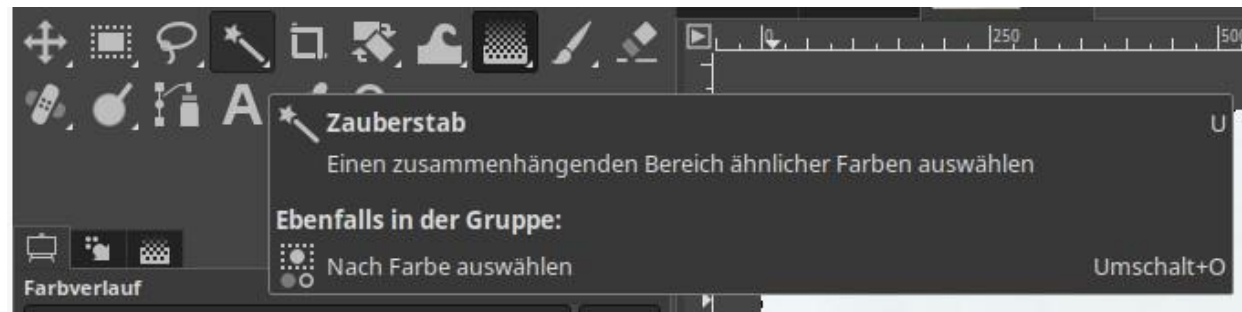
13. Creating lok images

Remove background

This step is optional. It is not required for creating JPEG images.

First the image needs an alpha channel

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already present. This contains the transparency information of the image. Choose

You for this transparency level

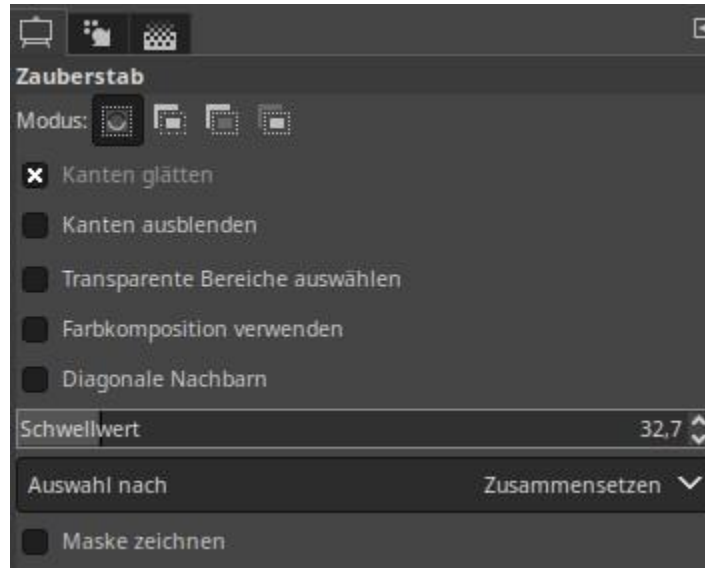
Add alpha channel. If the menu item is grayed out, the alpha channel is already present.

Then select the wand tool **from the** tools panel.

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Set the tool to be added if it is not



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13. Creating lok images

Click on the background. The area to be deleted is outlined.

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13.Creating lok images

Press the Delete or DelTaste.
The selected area is deleted and replaced by
the transparency.

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13. Creating lok images

Repeat this procedure with all other background areas. Make sure that no white
Keep the edges. Also experiment with the threshold value of the wand tool.

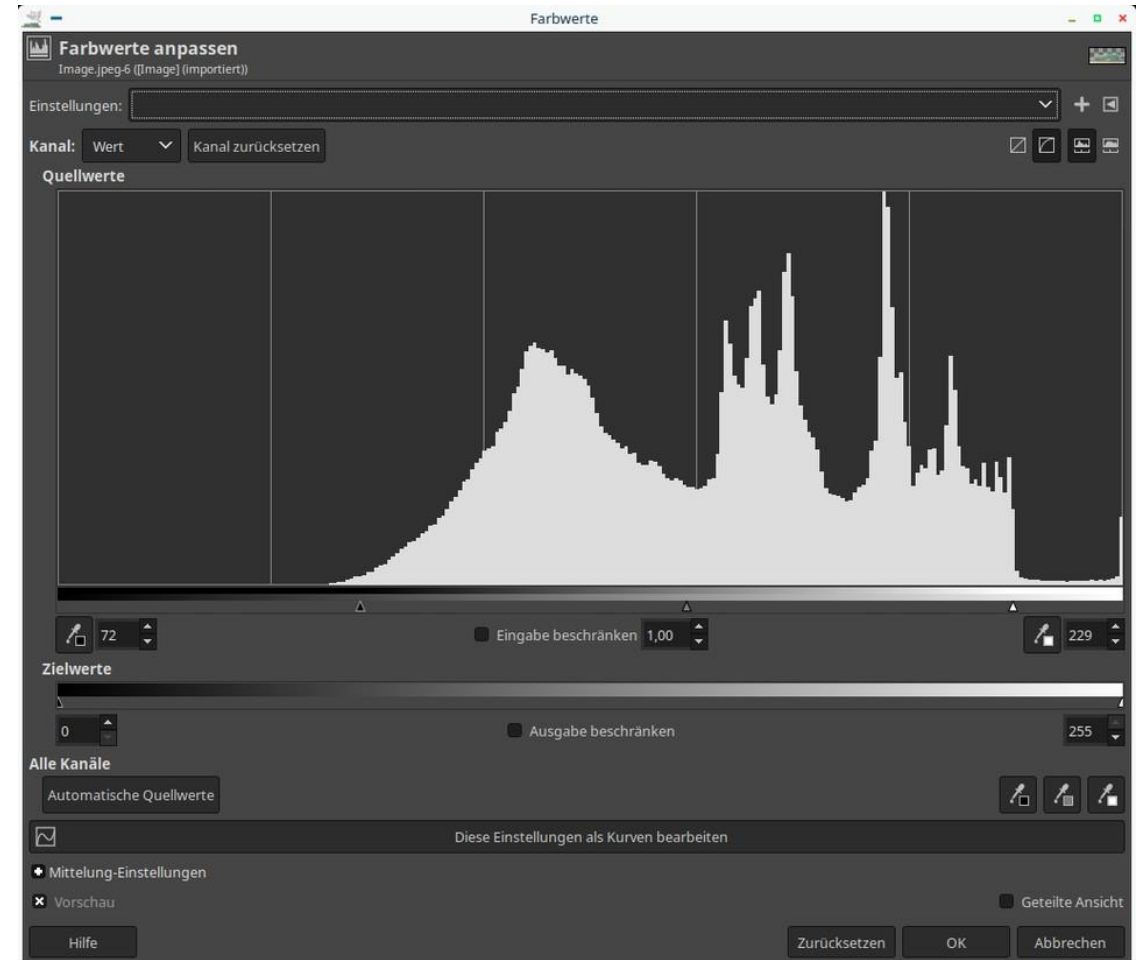
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Increase image contrast

In the next step, the contrast of the image is increased to achieve an optimal display on the display.

Select **the Colors Values dialog**.

Then move the arrows in the Source values dialog so that they only reflect the color space used.

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After confirming the dialog, the colors of the image will look much stronger.

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13.Creating lok images

Crop image

In this step the image is adjusted to the LokGröße. Select a narrow rectangular area around the loco and **crop the image** to the selected area with the function Crop Image on Selection



You can also save this image first to generate further formats.

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13.Creating lok images

Scale the image

Now the picture is on its final size scaled. Select **the Image Scale** Image function **For long locomotives, you can set the width to 190 pixels. The height is adjusted automatically. For short locomotives it is better to set the height to 48 pixels. Make sure that the maximum image size is 190 x 48 pixels.**

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After scaling the result looks like this:

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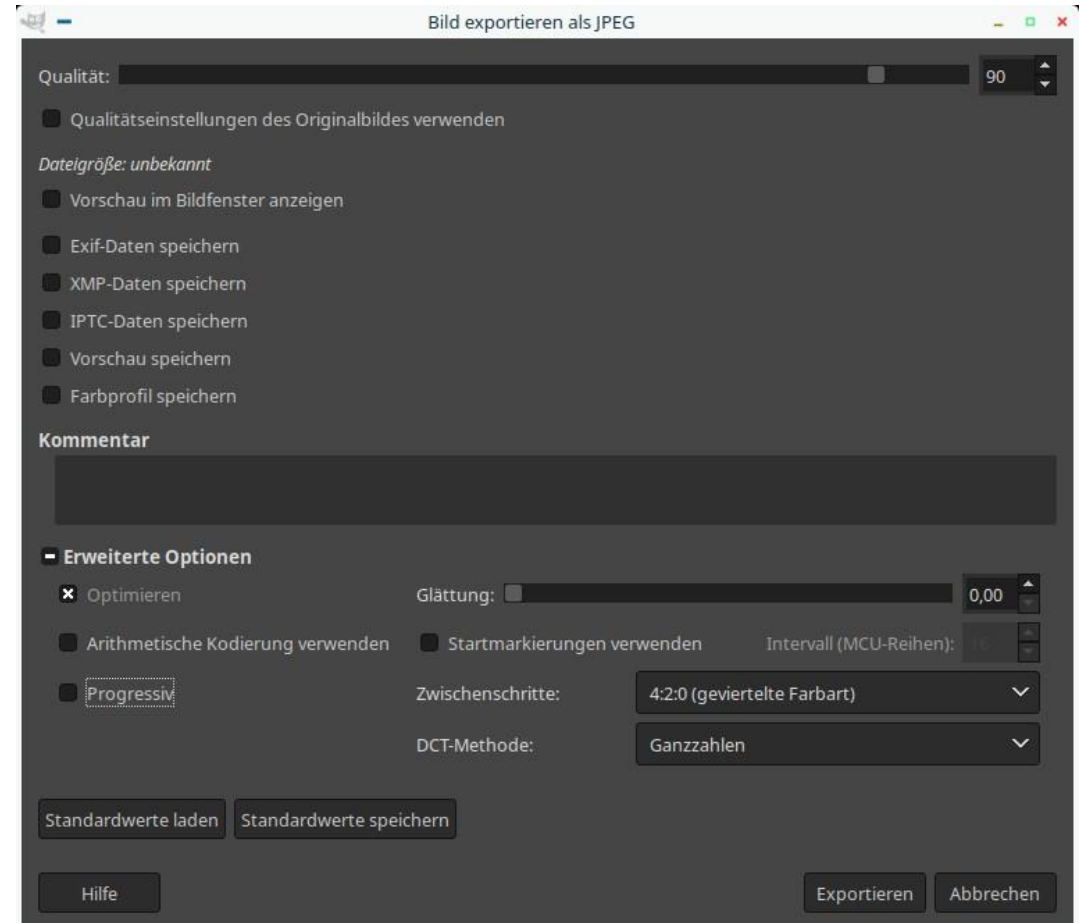


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[D&C](#)

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Export image

The final step is to save the image in the target format. Use the File **Export to function ...** .

The file type is defined by the extension. Select .png for PNG and .jpg for JPEG. After clicking on Export, the export options are requested depending on the format.

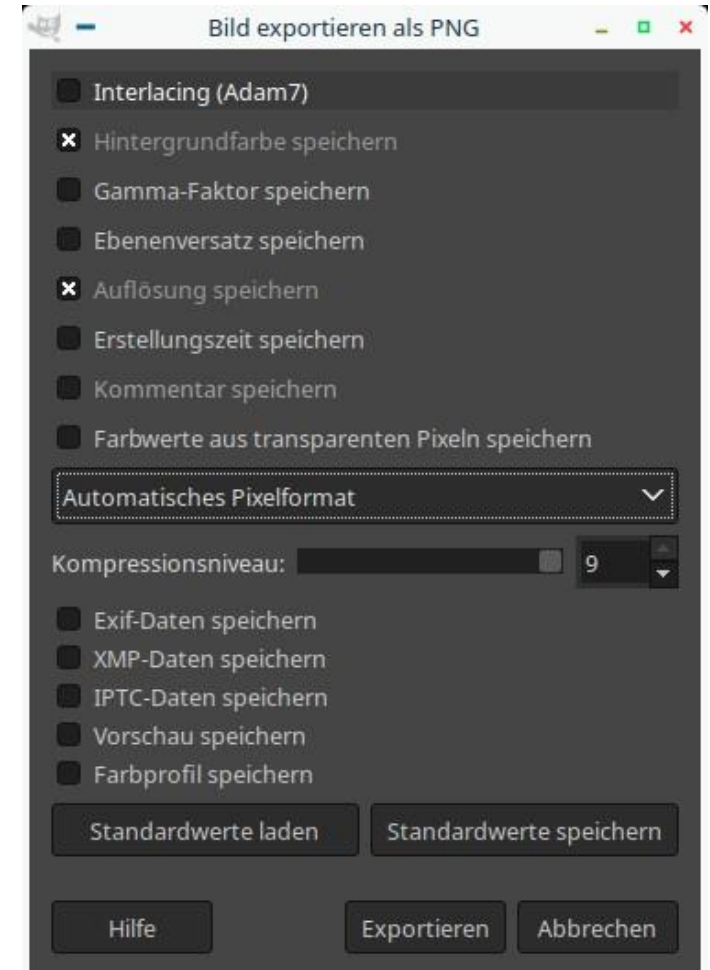
For JPEG, select the following settings:

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For PNG, the following should be
Settings to be used:

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13.Upload pictures of the locomotive to LoDi-Con

After editing the image, it can now be transferred to the LoDi-Con via the LoDi-ProgrammerFX. How this works, we explain here.

After uploading to the LoDi-Con, the image looks like this in case of PNG with transparency:

14 Technical data

Dimensions: length

136 mm

Width 74 mm

Height 46 mm (measured by rotary knob)

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Weight:

LoDi-Con A = 220 grams (with battery)
LoDi-Con B = 180 grams (without batteries)

Display:



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3.2" TFT LCD Display with capacitive touch

Resolution 240x320 pixels

Contrast 500:1

Brightness 280 cd/m²

Rotary knob:

Pulse generator with 24 steps + push button.

WLAN:

IEEE 802.11 with 2.4 GHz b/g/n

14 Technical data

LoDi-Con A:

The USB-C port can be powered with all common USB-C cables with 5 volt power supplies. The maximum load of the USB power supply can be up to 3 amps.

LoDi-Con B:

Can be used with:

- Alkaline batteries AAA (up to 6 hours of operation)

Battery (LoDi-Con A only):

Lithium-polymer battery, 3.7 volt 3000mAh. Maximum discharge current 1.5 amps.

The maximum operating voltage is 5 volts.

The LoDi-Con is very economical in consumption, in our real tests we determined runtimes of up to

10 hours. Make sure that the batteries you use have sufficient capacity (mAh), the less available, the shorter the battery life.

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•Li-ion batteries AAA with 750 mAh (up to 3 hours) (Not suitable for children under 14 years of age).

The LoDi-Con uses some open source [components](#).

14 Technical data

Notes on battery disposal

In connection with the sale of batteries or the supply of devices containing batteries, we are obliged to inform you of the following:

You are legally obliged to return used batteries as an end user. You can return used batteries that we have or have had in our range as new batteries free of charge to our dispatch warehouse (shipping address). The symbols on the batteries have the following meaning: The symbol of the crossed-out trash can means that the battery must not be thrown into the household waste.

Pb = battery contains more than 0.004 mass percent lead



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Cd = battery contains more than 0.002 mass percent

Cadmium Hg = battery contains more than 0.0005 mass percent mercury.

Please note the above information.



Should questions be open?

Would you like to ask questions in person?

Gladly!

Contact us [HERE!](#)

Or go to our [forum](#), there are experienced users willing to help you.

**LoDi-Con
contact**

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Remarks