

Documentation

eCom Labs: «Images Optimization»

1.0-2.0

1. Overview
 - 1.1. Support
 - 1.2. Compatibility
 - 1.3. Buy now
2. Add-on installing
3. Setting up the add-on
 - 3.1. Tab “General”
 - 3.2. Tab “Services”
4. Add-on page
 - 4.1. Image list
 - 4.2. All images optimization
 - 4.3. Several images optimization
 - 4.4. Image search

1. Overview

The **"Image Optimization"** add-on provides an opportunity to reduce the size (in bytes) of images and thumbnails using external service Resmush.it without significant loss of image quality. Also there is a mode for converting images to WebP format. The image weight can be reduced by 25-35%. It is a very valuable tool for speeding up the images loading. This allows you to **increase the page loading speed on your site** that has a positive effect on its ranking in search engines.

1.1. Support

This add-on is developed and published by eCom Labs, a CS-Cart developer. If you need help to install, set-up or customize it, please contact us via Helpdesk (helpdesk@ecom-labs.com).

1.2. Compatibility

The addon is compatible with CS-Cart and Multi-Vendor 4.2.x - 4.18.x.

1.3. Buy now

<https://www.ecom-labs.com/ready-to-use-add-ons/cs-cart-images-optimization-add-on.html>

2. Installing the add-on

The installation package will be available for download on the Order detail page.

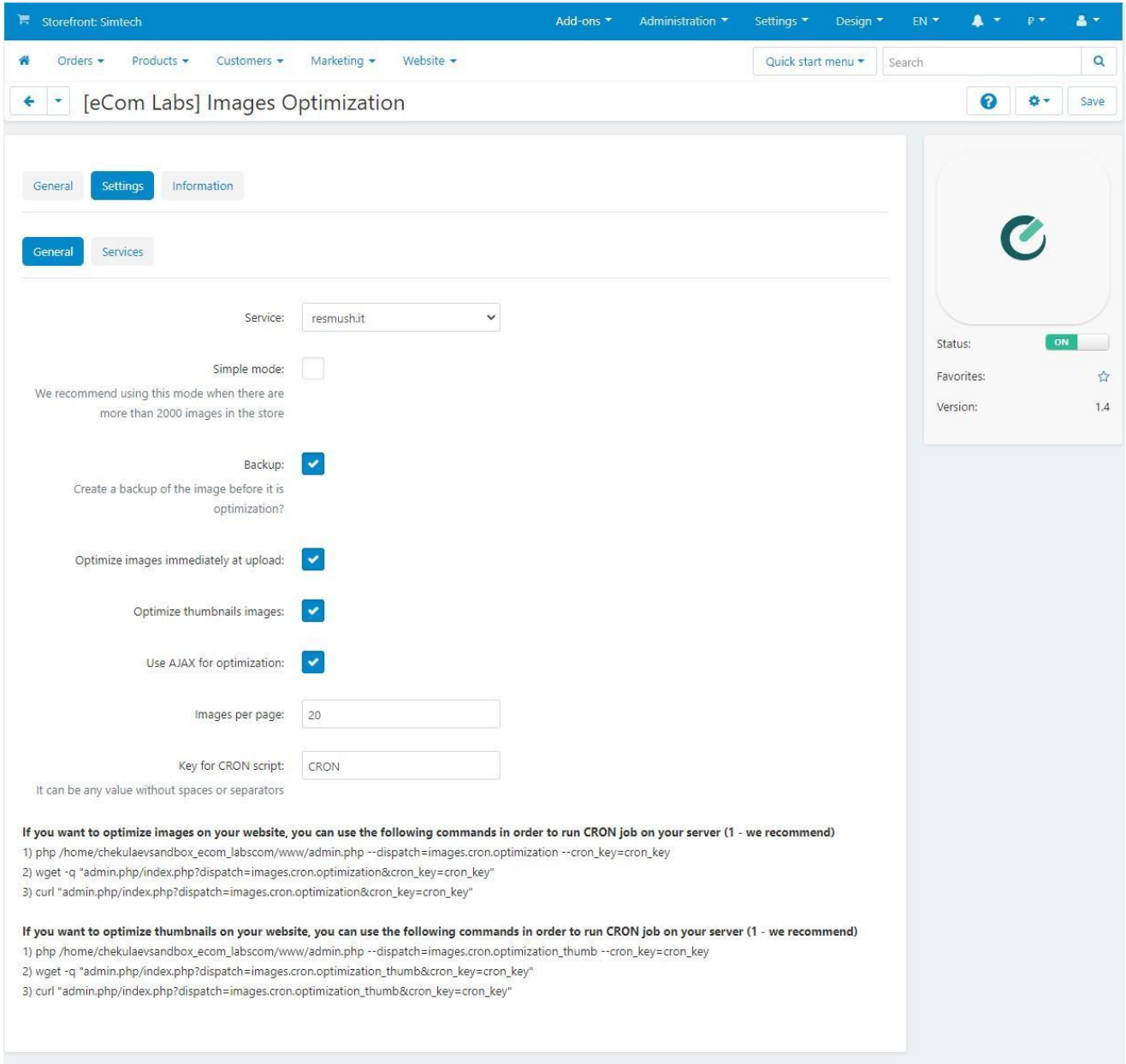
1. Log in the administration panel and go to the **Add-ons -> Manage add-ons** page
2. Use the **Upload & install add-on** button on the top of the page to install the add-on
3. Make sure that the status of the add-on is **Active** after the installation is finished

If you have any problems with add-on installing or turning it on, please contact us: helpdesk@ecom-labs.com

3. Setting up the add-on

Go to menu Add-ons > Manage the add-ons > eCom Labs: Images Optimization

3.1. Tab «General»



The screenshot shows the 'eCom Labs: Images Optimization' settings page in the Simtech storefront. The page has a blue header with navigation links: Storefront: Simtech, Add-ons, Administration, Settings, Design, EN, and user profile. Below the header is a sub-header with links: Orders, Products, Customers, Marketing, Website, Quick start menu, and a search bar. The main content area is titled '[eCom Labs] Images Optimization' and has tabs for General, Settings, and Information. The 'General' tab is active, showing a 'General' sub-tab and a 'Services' sub-tab. The 'General' sub-tab contains the following settings:

- Service: resmush.it (dropdown menu)
- Simple mode: ☐ (checkbox). Below it, text reads: 'We recommend using this mode when there are more than 2000 images in the store'.
- Backup: ☒ (checkbox). Below it, text reads: 'Create a backup of the image before it is optimization?'.
- Optimize images immediately at upload: ☒ (checkbox).
- Optimize thumbnails images: ☒ (checkbox).
- Use AJAX for optimization: ☒ (checkbox).
- Images per page: 20 (text input field).
- Key for CRON script: CRON (text input field). Below it, text reads: 'It can be any value without spaces or separators'.

Below the settings, there are two sections of commands for running CRON jobs on the server:

If you want to optimize images on your website, you can use the following commands in order to run CRON job on your server (1 - we recommend)

- 1) `php /home/chekulaevsandbox_ecom_labscom/www/admin.php --dispatch=images.cron.optimization --cron_key=cron_key`
- 2) `wget -q "admin.php/index.php?dispatch=images.cron.optimization&cron_key=cron_key"`
- 3) `curl "admin.php/index.php?dispatch=images.cron.optimization&cron_key=cron_key"`

If you want to optimize thumbnails on your website, you can use the following commands in order to run CRON job on your server (1 - we recommend)

- 1) `php /home/chekulaevsandbox_ecom_labscom/www/admin.php --dispatch=images.cron.optimization_thumb --cron_key=cron_key`
- 2) `wget -q "admin.php/index.php?dispatch=images.cron.optimization_thumb&cron_key=cron_key"`
- 3) `curl "admin.php/index.php?dispatch=images.cron.optimization_thumb&cron_key=cron_key"`

On the right side of the page, there is a sidebar with the eCom Labs logo, a status toggle set to 'ON', a 'Favorites' link with a star icon, and a 'Version' field showing '1.4'.

Service — service, that optimizes the images

Simple mode — when the simplified protocol is enabled, the list of images on the add-on page (footnote 1) appears faster. It is recommended to use this mode if there are a lot of images uploaded in the store (2000 and more).

The enabled «Simple mode» makes the following restrictions:

- You can't sort the list by the "type" field
- You can't search images by the "type" field

Back up — for optimized images, the original images will be saved in a separate folder in your store directory (*root folder of your store*/images/backup_images_optimization).

Optimize images immediately at upload — all new images in the store will be optimized automatically after uploading

Optimize thumbnails images — all generated thumbnails from the uploaded image will be optimized

Use AJAX for optimization - the use of AJAX in optimization makes the process visually more understandable for the administrator (a progress bar is displayed)

Images per page - allows you to set the number of displayed elements per one page on the add-on page

Key for CRON-script — you can set the key to run the CRON script. If you use CRON-script, image optimization will be performed without your participation, automatically. To do this, you need to fill the key in the gap described above, and use the commands from the list under the input field to run the script on a schedule on your server. Commands are ready to use, do not need editing. For stores with a large number of images is recommended to use a CRON scripts for optimization.

3.2. Tab «Services»

[eCom Labs] Images Optimization

General

Settings

Information

General

Services

Resmush

This service use API of Resmush.it. There are the following requirements for this service:

- Supported formats: JPG, PNG, GIF, BMP, TIF
- Max image size: 5MB

:

90

From 1 to 100. The greater the quality, the greater the image. We do not recommend using a value less than 80. Optimal use 90.

Convert to Webp

This mode uses functions and libraries that may not be present in your server configuration, so before using this mode make sure that you have the following libraries of the required versions on your server:

- Supported formats: JPG, PNG, GIF
- The "GD" library version 2.2.5 or HIGHER must be installed.
- If it is not possible to install the "GD" library version 2.2.5, you can use the "ImageMagick" library

Quality:

70

On this tab you can find requirements for images for their optimization.

3.2.1. Image requirements for optimization using the service

Resmush.it:

Supported formats: JPG, PNG, GIF, BMP, TIF.

Max image size: 5 MB.

Quality - from 1-100. The lower the quality parameter, the smaller the image size after optimization, but the quality may suffer.

It is recommended not to set the parameter below 80. 90 is the optimal value.

3.2.2. Requirements for images to be converted to WebP format

This mode uses functions and libraries that may not be present in your server configuration, that's why before using this mode, make sure that the following libraries of the required versions are present on your server:

- **Supported image formats:** JPG, PNG, GIF
- **The "GD" library version 2.2.5 or HIGHER must be installed**
- If it is not possible to install the "GD" library version 2.2.5, then you can use the "ImageMagick" library

3.2.3. Image requirements for optimization using the service shortpixel.com:

Supported formats: JPG, PNG, GIF

Max image size: ShortPixel does not have a file size limit for images that can be optimized

The service is paid, but a small limit of free optimizations is provided.

The payment is made by the owner of the store for which the module was purchased.

The module only provides an opportunity to optimize images using this service.

The module developer (eCom Labs company) does not undertake obligations to pay the tariffs of the Shortpixel service.

4. Add-on page

After installment, a page appears, where all images of the store are presented. You can find it in the "Administration - Image Optimization" tab.

4.1. Image list

There is a table where all the images of your store are displayed. An image in the table has name, type of entity to which it belongs (product, category, promo, etc.), format, old and new sizes and status. All these fields can be used to sort the table. Sorting by the "Type" field will be performed if "Simple mode" in the addon settings is disabled. Fields "Old" and "New" dimensions are filled after optimization, so you can clearly understand how much the image has decreased in size after optimization.



Images



1-20 of 762



☐	Image	Name	Type	Format	Old size	New size	Status
☐		d85_smartTV.jpg	product	jpg	25.898 KB	12.109 KB	Optimized
☐		LED800065NAL30_1.jpg	product	jpg	11.323 KB	4.199 KB	Optimized
☐		LED800065NAfront_2.jpg	product	jpg	26.21 KB	7.233 KB	Optimized
☐		LED800065NAR30_2.jpg	product	-	-	-	Not optimized
☐		UN40D5003BFXZA.jpg	product	-	-	-	Not optimized
☐		LED4003400532NAL30_1.jpg	product	-	-	-	Not optimized
☐		LED4003400532NAR30_1.jpg	product	-	-	-	Not optimized

4.2. All images optimization

The side menu contains the following actions:

Optimize All Images — if you choose this option, all images of the store will be optimized. It will take some time, depending on the number of images in your store.

Note: if you use the image conversion mode to WebP format, the existing images are not replaced with new ones in WebP format. They are simply created in the same directories as the original images. This is necessary if the visitor's device or browser does not support WebP format, in this case the server will show the original images to the visitor.

Restore all images from a backup - if you need to return everything to its original form, all optimized images will return to their original form

Important: if you use the image conversion mode to WebP format, it is highly recommended to clear the cache of store templates after restoring images from a backup copy.

A must-read if you are using the WebP format conversion mode: If you want to uninstall or reinstall the addon, it is recommended to make a full recovery of all images from the backup.

Optimize Thumbnails - all thumbnails generated by CS-Cart from detailed images will be optimized.

Note: If you use the WebP image conversion mode, this feature is not available, as thumbnails are generated in WebP format automatically on the fly from detailed images.

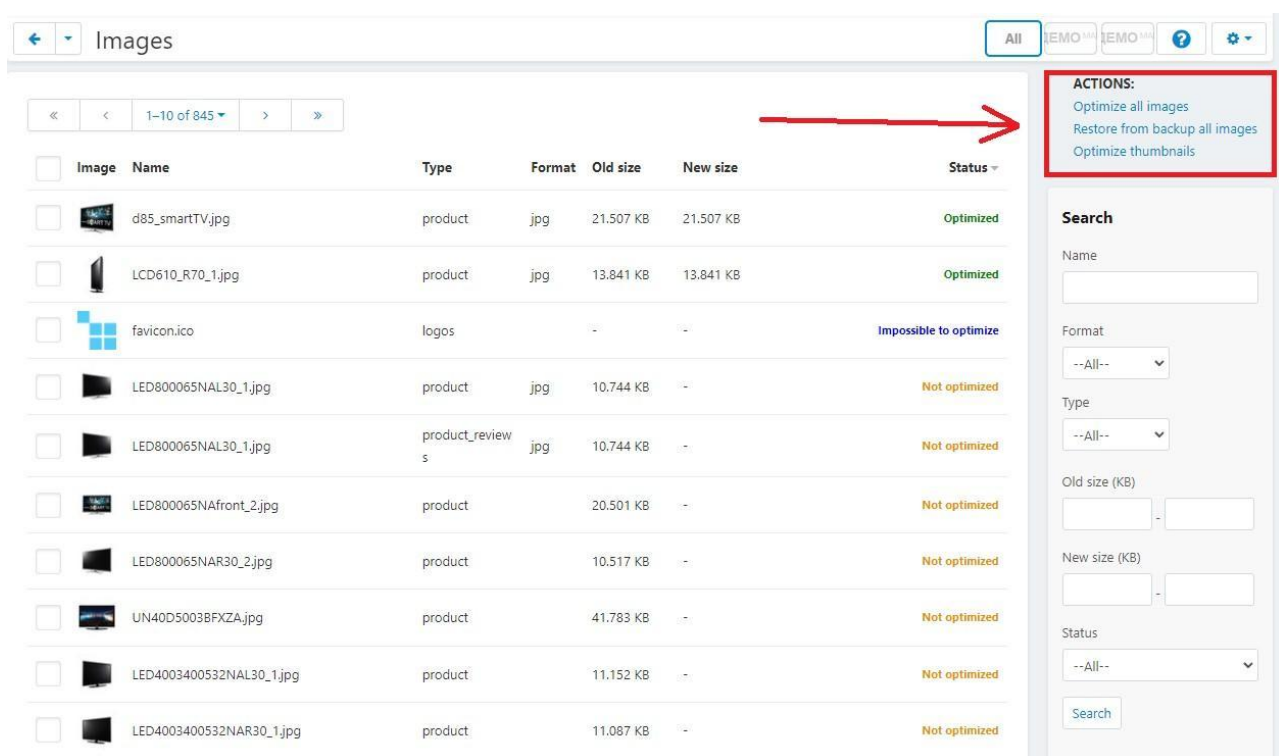


Image	Name	Type	Format	Old size	New size	Status
	d85_smartTV.jpg	product	jpg	21.507 KB	21.507 KB	Optimized
	LCD610_R70_1.jpg	product	jpg	13.841 KB	13.841 KB	Optimized
	favicon.ico	logos	-	-	-	Impossible to optimize
	LED800065NAL30_1.jpg	product	jpg	10.744 KB	-	Not optimized
	LED800065NAL30_1.jpg	product_reviews	jpg	10.744 KB	-	Not optimized
	LED800065NAfront_2.jpg	product	-	20.501 KB	-	Not optimized
	LED800065NAR30_2.jpg	product	-	10.517 KB	-	Not optimized
	UN40D5003BFXZA.jpg	product	-	41.783 KB	-	Not optimized
	LED4003400532NAL30_1.jpg	product	-	11.152 KB	-	Not optimized
	LED4003400532NAR30_1.jpg	product	-	11.087 KB	-	Not optimized

ACTIONS:

- Optimize all images
- Restore from backup all images
- Optimize thumbnails

Search

Name:

Format:

Type:

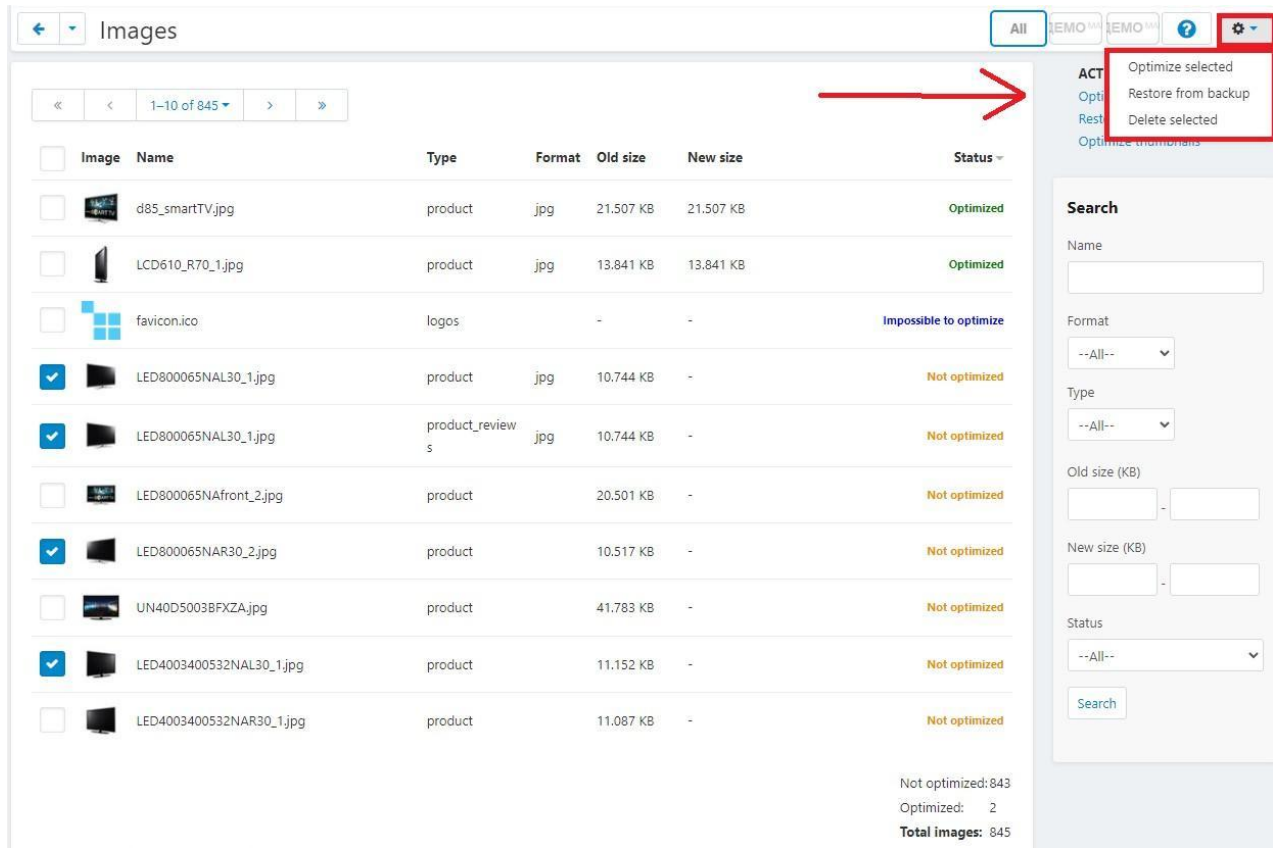
Old size (KB): -

New size (KB): -

Status:

4.3. Several images optimization

This add-on let optimize not only all images at once, but also specific one or even only one, that you'll choose. For several images – tick the images, you need to be optimized, then click on the "gear" at the top and choose the required action from the list, "only for the selected images".



The screenshot shows the 'Images' management interface. At the top, there's a navigation bar with 'All', 'EMO', and a gear icon. A red arrow points to the gear icon, which has a dropdown menu with the following options: 'Optimize selected', 'Restore from backup', and 'Delete selected'. Below the navigation bar is a table of images with columns: Image, Name, Type, Format, Old size, New size, and Status. The table lists 10 images, including 'd85_smartTV.jpg', 'LCD610_R70_1.jpg', 'favicon.ico', and several 'LED800065NAL30_1.jpg' and 'LED800065NAR30_2.jpg' files. Some images are marked as 'Optimized' (green), while others are 'Not optimized' (orange) or 'Impossible to optimize' (blue). A red checkmark is visible next to the first 'LED800065NAL30_1.jpg' entry. To the right of the table is a sidebar with a 'Search' section containing input fields for Name, Format, Type, Old size (KB), New size (KB), and Status. At the bottom right, a summary box shows: 'Not optimized: 843', 'Optimized: 2', and 'Total images: 845'.

Image	Name	Type	Format	Old size	New size	Status
☐	d85_smartTV.jpg	product	jpg	21.507 KB	21.507 KB	Optimized
☐	LCD610_R70_1.jpg	product	jpg	13.841 KB	13.841 KB	Optimized
☐	favicon.ico	logos	-	-	-	Impossible to optimize
☒	LED800065NAL30_1.jpg	product	jpg	10.744 KB	-	Not optimized
☒	LED800065NAL30_1.jpg	product_reviews	jpg	10.744 KB	-	Not optimized
☐	LED800065NAR30_2.jpg	product	-	20.501 KB	-	Not optimized
☒	LED800065NAR30_2.jpg	product	-	10.517 KB	-	Not optimized
☐	UN40D5003BFXZA.jpg	product	-	41.783 KB	-	Not optimized
☒	LED4003400532NAL30_1.jpg	product	-	11.152 KB	-	Not optimized
☐	LED4003400532NAR30_1.jpg	product	-	11.087 KB	-	Not optimized

Not optimized: 843
Optimized: 2
Total images: 845

4.4. One image optimization

In the line of image you need, click the “gear” and choose “optimize”. In the dropdown list you can also choose the action: «delete» or «download image».

←

▼

Images

All

MEMO

MEMO

?

⚙️

«

<

1–10 of 845

>

»

☐	Image	Name	Type	Format	Old size	New size	Status
☐		d85_smartTV.jpg	product	.jpg	21.507 KB	21.507 KB	Optimized
☐		LCD610_R70_1.jpg	product	.jpg	13.841 KB	13.841 KB	Optimized
☐		favicon.ico	logos	-	-	-	Impossible to optimize
☐		LED800065NAL30_1.jpg	product	.jpg	10.744 KB	-	Not optimized
☐		LED800065NAL30_1.jpg	product_reviews	.jpg	10.744 KB	-	Not optimized
☐		LED800065NAfront_2.jpg	product	-	20.501 KB	-	Not optimized
☐		LED800065NAR30_2.jpg	product	-	10.517 KB	-	Not optimized
☐		UN40D5003BFXZA.jpg	product	-	41.783 KB	-	Not optimized
☐		LED4003400532NAL30_1.jpg	product	-	11.152 KB	-	Not optimized
☐		LED4003400532NAR30_1.jpg	product	-	11.087 KB	-	Not optimized

⚙️

Download

Optimize

Delete

Not optimized: 843

Optimized: 2

Total images: 845

ACTIONS:

[Optimize all images](#)
[Restore from backup all images](#)
[Optimize thumbnails](#)

Search

Name

Format

--All--

Type

--All--

Old size (KB)

-

New size (KB)

-

Status

--All--

Search

4.5. Image search

To find specific images in the entire list, you can use the "Search". It is in the side menu. You can search by name, size, type (if Simple Mode is off), range of old and new sizes, and status.

←

▼

Images

All

EMO 100%

EMO 100%

?

⚙️

☐	Image	Name	Type	Format	Old size	New size	Status
☐		d85_smartTV.jpg	product	jpg	21.507 KB	21.507 KB	Optimized

Not optimized: 0

Optimized: 1

Total images: 1

ACTIONS:

[Optimize all images](#)
[Restore from backup all images](#)
[Optimize thumbnails](#)

Search

Name

smarttv

Format

--All--

Type

--All--

Old size (KB)

New size (KB)

Status

Optimized

Search