# AI Product Photography

User and installation guide | For NSPlug.com customers | Version 1.0.2

## What the extension does

Create new product scenes with **AI Generate** or improve an existing product image with **AI Enhance**. Jobs run in the background. Generated files remain separate from the product gallery until an administrator approves them. You can work from an individual product or queue one job per selected product in the catalog grid.

- Use a saved product image as the reference. AI output can be imperfect, so review product details, labels, and branding before publishing.
- The product page displays queued jobs and completed results in **Pending AI Images** without a manual reload.

## Requirements

- Adobe Commerce or Magento Open Source 2.4.6-2.4.9 and a PHP version supported by the installed Commerce patch.
- NSPlug Core 1.x, Magento cron running every minute, and an active AI Product Photography license.
- An OpenAI API project with billing enabled and access to the configured GPT Image model. OpenAI API usage is billed separately by OpenAI.

## NSPlug.com purchase and license

A purchase from **nsplug.com** includes downloads for AI Product Photography and NSPlug Core. After the order is complete, open **My Account > Downloads** to retrieve the packages. NSPlug supplies the **license key** and **license token** for AI Product Photography; enter them in Magento Admin. If credentials are missing, contact NSPlug with your order number. Never include an API key or license token in a support request.

AI Product Photography is an annual subscription. An active extension license is required to queue and process image jobs. The OpenAI API account is separate from the extension subscription.

## Install the packages

Extract the NSPlug Core ZIP into **app/code/NSPlug/Core** and the AI Product Photography ZIP into **app/code/NS/AiProductPhotography**. If your project uses Composer packages, require **nsplug/core** and **nsplug/ai-product-photography** instead. Then run these commands from the Magento root:

```
bin/magento module:enable NSPlug_Core NS_AiProductPhotography
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento setup:static-content:deploy -f
bin/magento cache:flush
```

Use your normal maintenance and deployment process on production systems.

# Set up and activate

Complete these steps before queuing an image job.

## 1 Activate the extension

Open **Stores > Configuration > NSPlug > License for AI Product Photography** at Default scope. Set the license server URL to **https://www.nsplug.com**, enter the license key and token supplied for this extension, save, then select **Activate**. Check the Current License Status and Bound Domain. The domain comes from the Default secure base URL. **Check** refreshes license status; **Clear Local License** removes local credentials.

## 2 Configure OpenAI and output

Open **Stores > Configuration > NSPlug > AI Product Photography Settings**. Enable the extension, enter the OpenAI API key, choose a GPT Image model, save, then select **Test OpenAI API Key**. The key is stored encrypted. The free test checks that OpenAI accepts the saved key; it does not check image-model access or billing. Queue a real job to test image generation.

| Setting | What it controls |
| --- | --- |
| Enable / API key / model | Turn the feature on, save the encrypted key, and select a supported GPT Image model. |
| Quality | Low, medium, or high. Higher quality can take longer. |
| Output Size | 1024x1024, 1536x1024, 1024x1536, or accepted custom dimensions divisible by 16. |
| Output Format / Default Background | PNG, JPEG, or WebP; white, gray, or custom background. |
| Request Timeout / Maximum Retries | Allow enough time for image edits; the default timeout is 600 seconds. Limit retry attempts. |
| Maximum Concurrent Jobs / Daily Job Cap | Limit parallel processing and the number of jobs created in a UTC day. Defaults: 2 concurrent, 100 per day. |
| Discarded Image Retention | Days to keep discarded generated files before cleanup; default 30 days. |
| Source Width / Height / File Size | Reject undersized or oversized source files. Defaults: 512x512 minimum; 50 MiB maximum. |

## 3 Check the admin menu

Jobs and presets are under **Catalog > AI Product Photography**. Settings and the license page remain under **Stores > Configuration > NSPlug**. The optional NSPlug left menu can expose settings and license links when enabled and at least two registered NSPlug product extensions are active.

# Create and review images

Each generated image requires an administrator's decision before it enters the catalog.

## Single-product workflow

- Save the product and add a suitable source image to its gallery.
- From the image gallery, choose **AI Generate** for a new product scene or **AI Enhance** to improve the selected image.
- For Generate, optionally choose a style preset and a setting such as Studio, Street, Editorial, Outdoor, or Industrial. Use **Person or interaction** only when a person belongs in the scene. Add any product-specific instructions, then queue the job.
- Watch **Pending AI Images** for queued/processing status and the completed side-by-side result. The panel refreshes automatically.
- Select gallery roles (Base, Small, Thumbnail, Swatch) if needed, then **Approve** to attach the result. Select **Discard** to reject it. An approved image is never attached automatically before this step.

## Style presets

The extension supplies 66 presets in 21 product categories. Choose one from the grouped preset list to apply its prompt and defaults. To manage presets, open **Catalog > AI Product Photography > Style Presets**. Use **Add Preset** or Edit to set Name, Base Prompt, optional Default Settings (JSON), and Active. You can also delete a preset. An inactive preset does not appear in the product selector.

Example default settings: `{"category":"Office Furniture","setting":"studio","size":"1536x1024"}`. Leave the JSON blank if the prompt alone is sufficient. Merchant-edited prompts are preserved when supplied presets are refreshed during an update.

## Bulk generation and enhancement

On **Catalog > Products**, select products and use **Actions > Generate images with AI** or **Enhance images with AI**. Each selected product queues one job using its primary image. Products without a primary image are skipped. Review results for each product before attaching them. The daily cap and active license apply to bulk jobs too.

## Job list and review

Open **Catalog > AI Product Photography > AI Image Jobs** to filter jobs by status, product, type, or date. The grid shows a preview, errors, OpenAI request ID, tokens, and estimated cost when available. Open a job to compare original and result, read the prompt snapshot, and approve or discard an image. Job statuses include pending, processing, awaiting review, approved, failed, discarded, and paused.

# Operations and support

Keep Magento background work running and review failures before retrying.

## Background processing

Magento cron should run every minute. The **ns.ai.photography.process** queue consumer normally processes jobs promptly; a cron fallback handles pending jobs if the consumer is unavailable. A process supervisor is recommended for steady throughput on busy stores.

```
bin/magento cron:install
bin/magento queue:consumers:start ns.ai.photography.process --max-messages=100
```

The fallback waits briefly before claiming a job so it does not compete with an active consumer. Cron also recovers stale jobs and removes expired discarded generated files. Generated files are held under **pub/media/ai_photography/** until reviewed.

## Clear jobs that appear stalled

First check Magento cron, the queue consumer, the license status, and the job's Error column. On the product's **Pending AI Images** panel, **Clear Queued / Processing Jobs** marks only that product's active jobs as discarded. It does not remove completed reviewable images. A request already in flight may finish and incur an OpenAI charge, but its result will not be attached to the product.

## Common checks

| Problem | What to check |
|---|---|
| No AI actions | Save the product, add a gallery image, enable the extension, and check admin permissions and license status. |
| Key test passes; job fails | The free key test does not verify image-model access or OpenAI billing. Review the job error and OpenAI project settings. |
| Job remains pending | Confirm Magento cron is scheduled and the consumer or cron fallback is running. |
| Result differs from product | Review before approval. Try a clearer source image, a better preset, or more specific instructions. |
| License inactive | Use Check on the license page; verify credentials, the Default secure base URL, and subscription status. |

## Support and updates

For setup, licensing, or image-job support, use the contact page at **https://www.nsplug.com/contact/**. Include your order number, extension version, Commerce version, PHP version, product or job ID, and a relevant error message. Do not send OpenAI API keys or license tokens. After installing an update, run **setup:upgrade**, compile, deploy static content, and flush cache using your standard deployment process.