

JCOGS Image Pro

JCOGS Design

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Version 2.0.0 - Enhanced Image Processing for ExpressionEngine 7+

What is JCOGS Image Pro?

JCOGS Image Pro is the enhanced version of the proven JCOGS Image add-on, delivering all the power of JCOGS Image 1.x with dramatically improved performance, intuitive self-documenting syntax, and advanced new features. Built from the ground up for ExpressionEngine 6 and 7+, it provides a simple upgrade path requiring only basic tag name changes while maintaining 100% parameter compatibility and introducing Pro-exclusive usability improvements like short alias format for complex parameters.

Key Features

- **Dramatically improved performance** - Up to 6x faster caching with intelligent auto-optimisation
- **Advanced preset system** - Create, manage and preview image processing presets through an intuitive Control Panel interface
- **Named connection system** - Configure multiple storage connections (local, cloud) and specify per-tag which connection to use
- **Intuitive short alias format** - Self-documenting parameter syntax using descriptive names like `content: , font_size: , color:` instead of error-prone positional arguments
- **Enhanced error notification system** - Intelligent error tracking with collapsible summaries, AJAX detail loading, and comprehensive Control Panel integration
- **Enhanced user experience** - CSS colour name support, comprehensive cache management, interactive debugging tools, and maintainable template syntax

What does it do?

JCOGS Image Pro is a comprehensive image processing add-on that transforms how you work with images in ExpressionEngine:

- **Complete Image Processing Suite** - Convert between formats (e.g. JPG, PNG, WebP, GIF, BMP), resize and crop with intelligent aspect ratio handling, apply filters and effects, and generate responsive image sets
 - **All JCOGS Image 1.x functionality enhanced** - 100% parameter compatibility with existing templates while delivering significantly enhanced performance
 - **Advanced Preset Management** - Create sophisticated image processing presets with live preview functionality
 - **Intelligent Caching System** - Enhanced caching delivers up to 6x performance improvements with interactive monitoring tools
 - **Multiple Operation Modes** - Use through template tags, variable modifiers, or action-link system for maximum flexibility
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Installation Instructions

Requirements

- **ExpressionEngine 6.4.18+, 7+**
- **PHP 8.1 - 8.4+** with GD/GD2 library
- **Server compatibility** - Works on shared hosting, VPS, and dedicated servers
- **Cloud storage support** - Optional integration with AWS S3, DigitalOcean Spaces, and Cloudflare R2

Note: For ExpressionEngine 5 and 6.4.17 or earlier, or or PHP 7.4/8.0 environments, JCOGS Image 1.x remains the recommended solution.

Installation Steps

1. Extract the Archive

- Extract the downloaded zip file
- You'll find two main directories: `jcogs_img_pro/` and `themes/`

2. Upload Add-on Files

- Upload the `jcogs_img_pro/` directory to `system/user/addons/`
- Final path: `system/user/addons/jcogs_img_pro/`

3. Upload Theme Files

- Upload the contents of `themes/user/jcogs_img_pro/` to your EE themes directory
- Final path: `themes/user/jcogs_img_pro/` (or your custom theme path)

4. Install the Add-on

- Log into your ExpressionEngine Control Panel
- Go to **Add-Ons**
- Find "JCOGS Image Pro" in the list and click **Install**

5. Configure Basic Settings

- After installation, go to **Add-Ons** → **JCOGS Image Pro** → **Settings**
- Configure your default cache directory (e.g., `images/jcogs_img_pro/cache`)
- Ensure the cache directory is writable by your web server

File Permissions

Ensure your cache directories are writable by the web server:

```
chmod 755 images/jcogs_img_pro/cache
```

Getting Started

Basic Usage

Once installed, you can immediately start using JCOGS Image Pro in your templates:

```

{!-- Simple image resize --}
{exp:jcogs_img_pro:single src="/images/original.jpg" width="300" height="200"}

{!-- Advanced processing with effects --}
{exp:jcogs_img_pro:single
  src="/images/photo.jpg"
  width="400"
  effects="grayscale,blur:2"
  format="webp"}

{!-- Using presets (configured in Control Panel) --}
{exp:jcogs_img_pro:single src="/images/hero.jpg" preset="hero_banner"}

```

Pro Exclusive: Intuitive Parameter Names

JCOGS Image Pro introduces **short alias format** for complex parameters, making your templates self-documenting and easier to maintain:

```

{!-- Text overlay with intuitive short aliases --}
{exp:jcogs_img_pro:single
  src="/images/banner.jpg"
  width="800"
  text="content:Sale 50% Off!|font_size:32px|color:white|position:center,top"}

{!-- Watermark with readable syntax --}
{exp:jcogs_img_pro:single
  src="/images/photo.jpg"
  width="600"
  watermark="src:/branding/logo.png|opacity:80|position:right,bottom|margin:20px"}

{!-- Compare to old positional format: --}
{!-- watermark="/branding/logo.png|0,0|80|right,bottom|20px,20px|0" --}

```

Benefits: - **No position memorisation** - Use descriptive names like `content:`, `font_size:`, `color:` - **Any order** - Specify attributes in any order, no need to map to rigid position. - **Self-documenting** - Templates explain themselves without consulting documentation - **Partial specification** - Include only the parameters you want to change - missing attributes will be set to their default values

Upgrading from JCOGS Image 1.x

Simple Upgrade Process - JCOGS Image Pro maintains complete parameter compatibility with all existing JCOGS Image 1.x templates. Simply change `{exp:jcogs_img:...}` to `{exp:jcogs_img_pro:...}` in your templates - all parameters work identically while gaining significant performance improvements.

```

{!-- Before (JCOGS Image 1.x) --}
{exp:jcogs_img:single src="/images/photo.jpg" width="300" height="200"}

{!-- After (JCOGS Image Pro) --}
{exp:jcogs_img_pro:single src="/images/photo.jpg" width="300" height="200"}

```

Migrating from CE Image

Pro also provides excellent compatibility with CE Image syntax. In most cases, simply changing `{exp:ce_img:...}` to `{exp:jcogs_img_pro:...}` is all that's required, making migration straightforward with minimal template adjustments.

What to Do Next

1. Explore the Control Panel

- **Cache Management** - Monitor and manage your image cache with interactive tools
- **Named Connections** - Set up multiple storage locations (local and cloud)
- **Preset Management** - Create reusable image processing configurations
- **Performance Monitoring** - Track cache performance and optimisation

2. Advanced Features

- **Short Alias Format** - Use intuitive parameter names (e.g., `content:`, `font_size:`, `color:`) instead of memorising positional arguments
- **Named Attributes** - Self-documenting template syntax that explains itself without documentation
- **Enhanced Error Notifications** - Intelligent error tracking with collapsible summaries and interactive debugging
- **Variable Modifiers** - Process images directly within template variables
- **Cloud Storage** - Configure AWS S3, DigitalOcean Spaces, or Cloudflare R2
- **Face Detection** - Advanced cropping with automatic face detection

3. Documentation & Support

- **Parameter Reference** - Complete documentation available in the Control Panel
- **Advanced Topics** - Detailed guides for performance optimisation and advanced features
- **Professional Support** - Contact JCOGS Design for technical assistance

4. Performance Optimization

- **Cache Threshold Optimiser** - Let Pro automatically benchmark and optimise your system
- **Connection Management** - Configure optimal storage connections for your use case
- **Monitoring Tools** - Track performance improvements with built-in analytics

Why Choose JCOGS Image Pro?

- ✓ **Simple upgrade process** - Immediate performance improvements with minimal effort
- ✓ **Intuitive syntax** - Short alias format makes complex effects self-documenting and maintainable
- ✓ **Modern architecture** - Future-proof design with PSR-12 compliance and comprehensive testing
- ✓ **Advanced features when needed** - Sophisticated tools that don't complicate basic usage
- ✓ **Enhanced reliability** - Years of real-world feedback incorporated into the rewrite
- ✓ **Intelligent error handling** - Enhanced error notification system with interactive debugging tools
- ✓ **Proven capabilities** - All trusted JCOGS Image features enhanced for better performance
- ✓ **Active development** - Continuing tradition of rapid support and regular updates

Support & Resources

Professional Support: JCOGS Image Pro maintains the high standard of support that JCOGS Image users expect. Whether you're implementing complex workflows or troubleshooting issues, professional support is available.

Documentation: Complete parameter reference and advanced guides are available at https://jcogs.net/documentation/jcogs_img_pro/ and within the ExpressionEngine Control Panel under **Developer** → **Add-Ons** → **JCOGS Image Pro**.

Updates: Regular updates introduce new features, performance improvements, and compatibility enhancements. The modern codebase ensures reliable operation while providing a foundation for continued innovation.

JCOGS Image Pro - Advanced image processing made simple for ExpressionEngine 7+