Settings File

LumiFind stores every user preference in a single JSON file: `settings.json`. This page documents every key LumiFind reads, its type, default value and purpose. So, you can safely review, back up or hand-tune your configuration (for example on headless servers running Console mode).

File Location

Operating System	Path
Windows	`%UserProfile%\.lumifind\settings.json`
macOS / Linux	`~/.lumifind/settings.json`

The fastest way to open the folder is **Settings → Open Settings Folder**. For a full overview of the directory see Folders and Files.

> **Edit with care!** Invalid values can prevent indexing or searching from working. Before editing: close LumiFind, keep a backup copy of the file, and run a validation afterwards (see Validating the file). Keys marked as *managed* are written automatically by the app and should not be edited by hand.

Structure Overview

```
{
  "generic": { ... },
  "model_info": { ... },
  "indexing_settings": { ... },
  "search_settings": { ... },
  "visual_settings": { ... }
}
```

All five top-level sections are **required**; the validator complains if any of them is missing. A few extra keys (`last_folder`, `last_updated`) are added automatically by the app.

Section: generic

Key	Type	Default	Description
`language`	string	`"en"`	Interface language code.
`auto_detect`	boolean	`true`	Detect and use the operating system language on first run.
`fallback_language`	string	`"en"`	Fallback language for missing translations.
`auto_check_updates`	boolean	`true`	Check for updates when the application starts.
`advanced_mode`	boolean	`false`	Show advanced options in the Settings window.
`backup_include_thumbnails`	boolean	`true`	Include thumbnails when creating settings backups.
`last_backup_date`	string	`""`	*Managed.* Timestamp of the last backup.

Section: model_info

Key	Type	Default	Description
`doc_model_enabled`	boolean	`true`	Enable the document embedding model.
`doc_model_name`	string	`sentence-transformers/paraphrase-multilingual-MiniLM-L12-v2`	Hugging Face model used for document embeddings. See default models and custom models.
`image_model_enabled`	boolean	`false`	Enable image search.
`image_model_name`	string	`openai/clip-vit-base-patch32`	Hugging Face model used for image embeddings.
`voice_model_enabled`	boolean	`false`	Enable voice transcription and search.
`voice_model_name`	string	`openai/whisper-tiny`	Hugging Face Whisper model used for transcription.
`video_model_enabled`	boolean	`false`	Enable video search (audio track analysis).

Key	Type	Default	Description
`frame_model_enabled`	boolean	`false`	Enable frame detection (object detection inside videos/images).
`frame_detector_type`	string	`opencv_ssd_coco`	Object detector. Supported values include `opencv_ssd_coco`, `detr`, `yolov8n`, `yolov8s`.
`frame_model_size`	number | null	`null`	Optional override of the estimated download size shown in the interface.
`whisper_language_code`	string	`""`	Force transcription language (e.g. `"en"`, `"tr"`). Empty = auto-detect.
`hugging_face_token`	string	`""`	Access token for gated or private Hugging Face models.

> Feature switches are gated by your license. If a feature is not part of your license, enabling its switch has no effect.

Section: indexing_settings

Paths and files

Key	Type	Default	Description
`index_folder`	path	`~/.lumifind/lumifind_db`	Root folder holding all analysis data.
`db_file`	path	`~/.lumifind/lumifind_db.sqlite3`	SQLite database file tracking analyzed files. The GUI Setup Wizard may place it inside the index folder instead.
`thumbnail_folder`	path	`~/.lumifind/thumbnails`	Folder for thumbnail images.
`models_folder`	path	`~/.lumifind/models`	Folder where downloaded models are cached.
`image_cache_folder`	path	= index folder	Optional separate location for the image embedding cache.

Key	Type	Default	Description
`file_formats`	list of strings	(see example)	File extensions to analyze, e.g. `".pdf"`, `".jpg"`.

Analysis parameters

Key	Type	Default	Description
`doc_batch_size`	integer	`1000`	Documents processed per batch.
`image_batch_size`	integer	`5`	Images processed per batch (GUI wizard uses 10).
`chunk_size`	integer	`500`	Text chunk size in characters.
`chunk_overlap`	integer	`50`	Overlap between consecutive text chunks.
`voice_chunk_duration`	integer	`30`	Audio chunk length in seconds.
`frame_sample_rate`	integer	`5`	Analyze one frame every N seconds. Must be a positive integer (GUI wizard uses 25).
`frame_sampling_enabled`	boolean	`true`	Enable frame sampling during video indexing.
`object_confidence_threshold`	number (0–1)	`0.5`	Minimum confidence for detected objects (GUI wizard uses 0.25).

Feature toggles

Key	Type	Default	Description
`process_email_attachments`	boolean	`true`	Index attachments found in email files.
`pdf_ocr_fallback`	boolean	`false`	Use OCR when a PDF contains no extractable text. See Dealing with scanned documents.
`treat_images_as_documents`	boolean	`false`	OCR images and index them as documents. See Dealing with documents as images.

Key	Type	Default	Description
`enable_exif_geocoding`	boolean	`true`	Reverse-geocode GPS coordinates from EXIF metadata.
`enable_thumbnails`	boolean	`true`	Generate thumbnails for analyzed images.
`auto_export_logs`	boolean	`false`	Save session logs to the logs folder after each run.
`show_file_info`	boolean	`false`	Show detailed file information in results.

Maintenance and file watching

Key	Type	Default	Description
`file_watching_enabled`	boolean	`false`	Watch folders for changes and update the index automatically.
`file_watching_interval`	integer	`60`	Polling interval in seconds.
`checkpoint_interval`	integer	`0`	Save an indexing checkpoint every N files; `0` disables checkpoints.
`oldest_file_date`	date string	`"1970-01-01"`	Skip files created before this date while indexing.

> **Managed keys — do not edit:** `indexed_folders`, `excluded_folders`, `tracked_files` (lists maintained by the app) and `previous_doc_model` (used internally during model changes).

Section: search_settings

Key	Type	Default	Description
`max_results`	integer	`100`	Maximum number of results returned per search.
`max_results_per_file`	integer	`1`	Maximum matches returned per file.
`min_score`	number	`0`	Discard results below this similarity score.

Key	Type	Default	Description
`use_metadata_mode`	integer	`0`	How image search balances metadata against visual content: `0` = balanced (default), `1` = prioritize metadata filters, `2` = prioritize visual matching.
`image_top_k`	integer	`5`	Number of candidate images considered per query stage.
`metadata_boost_weight`	number	`0.3`	Weight given to metadata matches when ranking.
`min_file_size_mb`	number	`0.0`	Ignore files smaller than this size.
`max_file_size_mb`	number	`100.0`	Ignore files larger than this size (GUI wizard uses 250).
`oldest_file_date`	date string	`"1970-01-01"`	Exclude files created before this date from results.
`file_formats`	list of strings	(mirror of indexing)	Restrict searches to these extensions.

Section: visual_settings

Key	Type	Default	Description
`log_level`	string	`"INFO"`	Logging verbosity (e.g. `DEBUG`, `INFO`, `WARNING`).
`date_format`	string	`"YYYY-MM-DD"`	Date display format (GUI wizard uses `DD.MM.YYYY`).
`time_format`	string	`"HH:mm:ss"`	Time display format.
`file_size_unit`	string	`"MB"`	Preferred unit for file sizes.
`show_thumbnails`	boolean	`true`	Show thumbnails in result lists.
`show_original_images`	boolean	`false`	Show original images instead of thumbnails where possible.
`add_timestamps`	boolean	`true`	Display timestamps next to entries.

Example: minimal settings.json

This is what Console mode's guided setup produces:


```
{
  "generic": {
    "language": "en"
  },
  "model_info": {
    "hugging_face_token": "",
    "doc_model_enabled": true,
    "doc_model_name": "sentence-transformers/paraphrase-multilingual-MiniLM-L12-v2",
    "image_model_enabled": false,
    "image_model_name": "openai/clip-vit-base-patch32",
    "voice_model_enabled": false,
    "video_model_enabled": false,
    "frame_model_enabled": false,
    "frame_detector_type": "opencv_ssd_coco",
    "frame_model_size": null
  },
  "indexing_settings": {
    "index_folder": "~/.lumifind/lumifind_db",
    "db_file": "~/.lumifind/lumifind_db.sqlite3",
    "thumbnail_folder": "~/.lumifind/thumbnails",
    "models_folder": "~/.lumifind/models",
    "file_formats": [".txt", ".md", ".pdf", ".docx"],
    "doc_batch_size": 1000,
    "image_batch_size": 5,
    "chunk_size": 500,
    "chunk_overlap": 50,
    "pdf_ocr_fallback": false,
    "treat_images_as_documents": false,
    "auto_export_logs": false,
    "show_file_info": false,
    "enable_exif_geocoding": true,
    "frame_sample_rate": 5,
    "object_confidence_threshold": 0.5
  },
  "search_settings": {
```

```
    "max_results": 100,
    "max_results_per_file": 1,
    "min_score": 0,
    "use_metadata_mode": 0,
    "file_formats": [".txt", ".md", ".pdf", ".docx"],
    "min_file_size_mb": 0.0,
    "max_file_size_mb": 100.0
  },
  "visual_settings": {
    "log_level": "INFO",
    "date_format": "YYYY-MM-DD",
    "file_size_unit": "MB"
  }
}
```

> **Note:** Paths may be written either absolute or starting with `~/`; LumiFind expands both. The GUI Setup Wizard creates the same structure but may pick different initial values for a few keys (batch sizes, sampling rate and date format).

Validating the file

After editing, always validate:

```
lf --console --validate-config
```

The check reports:

- All five required sections exist.
- `generic.language` is a string; `index_folder`, `db_file` are string paths; `file_formats` is a list.
- `frame_detector_type` is a string and `frame_model_enabled` is a boolean (when present).
- `frame_sample_rate` is a positive integer.
- `object_confidence_threshold` is a number between 0 and 1.
- The whole file is valid JSON and fully serializable.

Exit code `0` means valid, `1` means problems were found (details printed to the console).

Resetting to defaults

- **Console mode:** run `lf --console --setup`, or choose menu option **Settings (create/show) → Create/Reset**.
- **GUI:** re-run the Setup Wizard via `--welcome-wizard` or reinstall/reset from Settings.

Revision #3
Created 2025-12-03 11:11:14 UTC by MIDILLI
Updated 2026-08-26 09:21:38 UTC by MIDILLI