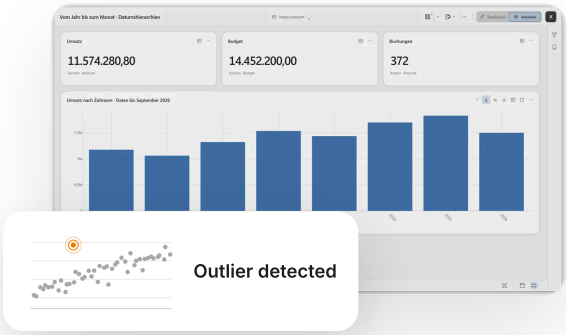
AUDIPY

Features.
Everything at a glance.

The data analytics software for audit, controlling and advisory. From import to audit report in one program, with AI assistant AMY. This overview summarises 295 features in 9 areas.



The path through AUDIPY

01
Import
Read in data
34 features

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Get an overview
39 features

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21 features

Foundation
Performance, even with millions of rows
14 features

Packages: Basic (offline, without AI), AI Starter (AI with a quota) and AI Pro (unlimited AI queries, 200 Logic² per month). All packages include the full Analyzer and the XRechnung tool. AuditPlus is an optional add-on.

IMPORT

Basics & Import

34 features

Load data from almost any source, link it and organise it in projects.

Supported File Formats

- **Parquet**: Highly optimised column format (standard format)
- **Excel**: XLSX, XLSB, XLS (all versions)
- **CSV / TXT**: Automatic character set and delimiter detection
- **XML**: Structured data imports
- **JSON**: Support for nested structures
- **DBF**: DBase files
- **ORC**: Apache ORC format
- **Power BI**: Direct extraction from PBIX files

Database Connectors

- **Microsoft SQL Server**: With Windows authentication
- **MySQL & MariaDB**: Full compatibility
- **PostgreSQL**: Native support
- **SQLite**: Embedded databases
- **Microsoft Access**: MDB/ACCDB via ODBC
- **ODBC**: Connection to any data source
- **Encryption**: SSL/TLS for secure connections

Import Wizards

- **Data Wizard**: CSV/TXT with preview and delimiter detection
- **Headers and footers**: skip them, choose the character set (UTF-8, ISO, etc.)
- **Excel Wizard**: Smart Merge and automatic header detection
- **Worksheets**: merge multiple sheets
- **Report Wizard**: Extraction from PDF files
- **Database Wizard**: with SQL Query Builder
- **Connection test**: error diagnostics integrated

Special Imports

- **GoBD import**: compliant XML import (Index.xml with references)
- **SAP DART files**: Automatic structure import
- **XRechnung**: Extraction and visualisation
- **Power BI integration**: Access to DAX & M queries
- **Batch import**: Read multiple files simultaneously
- **Folder import**: Recursive processing of entire directories

Explorer & Project Management

- **File explorer**: hierarchical with tree view
- **Project management**: projects and cases with quick switching
- **Data lineage**: Tracking of derivations
- **Folder structures**: create and manage your own folders
- **Tab system**: multiple files open simultaneously
- **Drag & drop**: Import files directly

EXPLORE

Exploration & Interaction

39 features

Filter, sort, format and see key figures for every column at a glance.

Column Formatting

- **Date formats**: automatic detection and conversion
- **Timestamps**: Unix timestamps and Excel serial numbers
- **Number formats**: Integers, decimals, EU/US separators
- **Display**: Thousands separators, percentage and currency
- **Other types**: Formatting for text, Boolean and hyperlinks
- **Precision**: Decimal places and display precision configurable

Column and Row Actions

- **Manage columns**: duplicate, rename, delete or hide
- **Drag & drop**: Reordering with automatic saving
- **Column widths**: adjust individually and save permanently
- **Sorting**: by one or more columns
- **Copy cell contents**: individually or in blocks
- **Editable columns**: direct editing in the table
- **Edit rows**: add or delete in edit mode

Advanced Filtering

- **Simple filters**: Equal, Not equal, Contains, Starts with, Ends with
- **Range filters**: Greater than, Less than, Between
- **Date filters**: Year, month, week, weekday or time periods
- **Fuzzy filter**: Similar values with configurable accuracy
- **Multi-value filter**: Select multiple values (In / Not In)
- **AND/OR logic**: Combine multiple filter conditions
- **Filter bookmarks**: Save, name and reuse

Column Statistics

- **Key figures**: Sum, mean, median, minimum and maximum
- **Dispersion**: Standard deviation, variance and quantiles (25%, 50%, 75%)
- **Unique values**: Frequency and cardinality analysis
- **Null values**: Detection and percentage display
- **Type-adaptive statistics**: Automatic detection of text, number or date
- **Inline display**: statistical results directly in the table

External Actions & Integration

- **Google Search**: Start directly with the cell content
- **Google Translate**: Translate selected content
- **Google Maps**: Interactive address search and map view
- **XRechnung**: Visualisation and display of structured invoice data
- **Cross-File Lookup**: Link to external Parquet files
- **External applications**: Launch from context menus
- **Python**: run your own scripts or analyses

User Interface & Interaction

- **Multilingual interface**: German, English, Dutch
- **Design themes**: Light, Dark, Custom
- **Zebra pattern**: Alternating row colours for better readability
- **Font size**: adjustable, DPI scaling for high-resolution displays
- **Context menus**: Quick access to all table functions
- **Responsive**: Layouts for different screen sizes

PREPARE

Processing & Transformation

51 features

Calculate columns, join tables and process even very large data volumes in the stream.

Stream Processing

- **Partial sections**: process very large data volumes in sections
- **Memory consumption**: significantly reduced thanks to streaming
- **Stream extraction**: Real-time filtering during import
- **Stream grouping**: Aggregation without memory overflow
- **Stream join**: Joining large files
- **Stream append**: Merging many files
- **Stream pivot**: Creating large cross-tables in the stream
- **Based on DuckDB**: Highest performance and efficiency

Data Joins

- **Inner Join**: Only matching records
- **Left Join**: All records from the left table
- **Right Join**: All records from the right table
- **Full/Outer Join**: All records from both tables
- **Anti Join**: Only non-matching records
- **Fuzzy Join**: Similarity-based matching
- **Multiple keys**: Join across multiple key columns
- **Append / Concatenate**: Add tables row by row

Data Cleansing

- **Duplicates**: find and remove automatically
- **Delete empty rows**: completely or partially
- **Missing values**: fill in (Forward/Backward Fill, mean, median)
- **Outliers**: Detection using statistical methods
- **Data type validation**: automatic correction

Column Transformation

- **Merge**: Combine columns with delimiters
- **Split**: By delimiter, length or pattern
- **Extract**: Numbers only, text only or by RegEx
- **Replace**: Substring or exact match
- **Text operations**: Trim, convert to upper/lower case
- **Date operations**: Extract year, month, day or time components

Aggregation & Pivot

- **Grouping**: by one or more columns
- **Standard aggregations**: Sum, average, count, min, max
- **Advanced aggregations**: Median, variance, standard deviation
- **Pivot tables**: Flexible cross-tables with multiple values
- **Drill-down**: Interactive detail view in pivot results
- **Custom calculations**: user-defined calculations and groupings

Calculated Columns

- **Formula editor**: with real-time preview
- **Operators**: +, -, *, /, %, power
- **Statistical functions**: Mean, median, standard deviation
- **Date/time differences**: Calculate time intervals
- **Lag/Lead**: Reference to the previous or next row
- **If-then functions**: Conditions nested as deeply as needed
- **Cumulative sums**: with grouping
- **Python expressions**: full support

New Columns

- **Text columns**: editable for manual input
- **Number columns**: editable for calculations
- **Index column**: Sequential numbering
- **Check column**: Manual markings (✔, ✖ or empty)
- **Constant column**: Fixed values for all rows

Comparison & Difference Analysis

- **Table comparison**: Compare two data sets directly
- **Row-by-row analysis**: Added, removed, changed entries
- **Column-by-column differences**: Make field changes visible
- **Diff report**: Clear summary of changes
- **Excel export**: Export differences directly

ASK AMY

AI Functions (AMY)

35 features

AMY answers questions in plain language, creates columns and suggests analyses.

AI Chat Interface

- **Ask my Data (AMY)**: Ask questions in natural language
- **Answer formats**: Text, table or interactive charts
- **Code generation**: automatic Python code for analyses
- **Code help**: Error correction and improvement suggestions
- **Context preservation**: Follow-up questions and multi-step dialogues
- **Gatekeeper function**: If a task is imprecise, AMY asks you to specify it
- **Favourite prompts**: Save prompts and run them via quick command

Supported AI Models

- **AUDIPY AI**: GDPR-compliant, fully privacy-safe
- **OpenAI**: various models (optionally integrable)
- **Deepseek**: various models
- **GPT4All**: Local models without internet connection
- **Custom APIs**: Connection to your own endpoints
- **With AUDIPY AI**: Only metadata (e.g. column names) is processed
- **Data protection**: no sensitive data content leaves the system

Magic Prompts & Playbooks

- **Magic Prompt Generator**: Context-dependent analysis suggestions
- **Context**: Industry, data content and system context are taken into account
- **Automatic data quality check**: Missing values, duplicates
- **Outliers**: Anomaly detection via prompt
- **Distributions**: Analysis to identify data patterns
- **Playbooks**: Creation for secure analysis with AI agents

AI-Assisted Column Creation

- **AI Column Generator**: Create new columns automatically
- **No programming**: complex transformations via AI
- **Text patterns**: Extraction via AI analysis
- **Context values**: automated calculation of context-related values

AI Visualisation & Insights

- **Automatic chart generation**: Selects the best-fitting chart
- **Insight generation**: Important findings are highlighted
- **Trend detection**: Identification of developments in the data set
- **Anomaly explanation**: AI provides reasons for unusual values
- **Visual storyboards**: Automatically generated analyses as a report

Documentation & Sharing

- **AMY bookmarks**: Save and re-run AI queries
- **Documentation**: all AI analyses performed are recorded automatically
- **Python code**: view, edit and export
- **Save charts**: interactive as HTML or as PNG
- **Reproducible workflows**: Analyses exactly repeatable
- **Column description**: created automatically by AMY

ANALYSE

Analysis & Visualisation

41 features

Statistical tests and charts, from Benford to time series.

Descriptive Statistics

- **Unique values (all columns)**: Identify primary keys
- **Unique values (column)**: Frequency analysis
- **Missing values**: Check data completeness
- **Value distribution**: Percentage and absolute frequencies
- **Quartiles**: 25th, 50th, 75th percentiles
- **Summary**: All important key figures at a glance

Outlier Analysis (Anomalies)

- **Isolation Forest**: AI-based outlier detection
- **Z-Score and Modified Z-Score**: Classic statistical methods
- **Rolling Z-Score**: Optimised for time series
- **Automatic mode**: Selects the best method based on data type
- **Category-based analysis**: Group-specific evaluation
- **Interactive visualisation**: Display with rolling median

Distribution Analysis

- **Histogram**: various bin methods (Sturges, Rice, Scott, Freedman-Diaconis)
- **Kernel Density Estimation (KDE)**: Smooth density distribution
- **Box plot and violin plot**: Compare quartiles and distribution
- **Normal distribution**: Comparison with the theoretical distribution
- **Category-based overlays**: Multiple groups in one view

Time Series Analysis

- **Seasonal Decomposition**: Breakdown into trend, seasonality and residuals
- **Trends**: Recognise patterns over time
- **Rolling averages**: Moving averages
- **Trend charts**: Line and area charts
- **Seasonal comparison**: Views across multiple periods

Benford Analysis (Digit Analysis)

- **Forensic method**: Detection of potential manipulation
- **Digit tests**: first, second and combined digit
- **Last digit test**: Validate trailing digits
- **Category-based Benford analysis**: Grouped tests
- **Deviations**: visual comparison with the Benford distribution

Gap Analysis

- **Completeness**: check sequential number ranges
- **Invoice numbers**: check for gaps and duplicates
- **Grouped number ranges**: by prefix or category
- **Reset fields**: for periodic numbers (e.g. annually)
- **Timeline**: Visualisation of gaps

Advanced Visualisations

- **Network diagrams**: Relationships between entities
- **Sankey / Money Flow**: Representation of cash flows
- **Parallel coordinates**: Multidimensional data analysis
- **Scatter plots**: Correlations between variables
- **Bar and line charts**: Visualise shares and categories

Interactive Charts

- **Plotly**: interactive visualisations
- **Zoom and selection**: Zoom, pan and select directly in the chart
- **Tooltips**: Detailed information on hover
- **Export**: as interactive HTML or static image (PNG)

AUDIT

Audit & Compliance

44 features

Record audit steps, repeat them and document them in a traceable way.

Audit Steps & Reproducibility

- **Audit Steps**: Reusable, standardised audit procedures
- **My Audit Manager**: Management of audit workflows
- **Custom audit steps**: define and save
- **Python scripts**: for automated audits
- **Documentation**: all actions recorded automatically
- **Recording**: Record audit steps at the push of a button
- **Audit Step Editor**: Build your audit routines with your own user dialogs

Monetary Unit Sampling (MUS)

- **Sample planning**: Poisson, Alpha-Beta and hypergeometric
- **Cumulative value selection**: Systematic selection
- **Evaluation**: Evaluate samples using various methods
- **Tainting & extrapolation**: Projection to the population
- **Reproducible**: thanks to seed values
- **PDF report**: for documentation

Bookmark System

- **Analysis bookmarks**: Save complete views
- **Reuse**: Filter, pivot and chart bookmarks
- **Notes**: Descriptions for each entry
- **Colour markings**: for categorisation
- **Quick access**: via the dashboard

Data Integrity & Security

- **Hash chain technology**: Guarantee immutability
- **SHA-256, MD5 and xxHash**: Cryptographic checksums
- **Signature verification**: Ensure data provenance
- **History report**: Complete change history
- **Metadata management**: Store extended data information
- **API keys**: encrypted for secure integration

Export & Reporting

- **File export**: Parquet, CSV and Excel with formatting options
- **PDF reports**: with integrated visualisations
- **HTML export**: Interactive reports as web pages
- **Power BI export**: Create PBIX files directly
- **Column selection**: targeted export
- **"What you see is what you get"**: Filters are carried over

Sampling Methods

- **Random and systematic**: samples drawn randomly or systematically
- **Stratified**: Samples by category
- **Value-proportional selection (MUS)**: Risk-based
- **Reproducible**: Results through seed values
- **Sample size**: automatic calculation

Developer Mode & Advanced Features

- **Metadata management**: Read, delete, replace
- **Python integration**: for individual automations
- **Debug logging**: for detailed error analysis
- **Feature toggles**: Activate experimental functions

Compliance Support

- **GoBD-compliant**: Meets German accounting standards
- **GDPR-compliant**: Data protection fully guaranteed
- **Audit-proof**: Immutable documentation
- **Audit trail**: complete for full traceability
- **Privacy by Design**: Data protection integrated from the start

FOUNDATION

Performance & Scalability

14 features

Fast even with millions of rows, locally on your computer.

Big Data Handling

- **Streaming operations**: Process large data volumes without fully loading them
- **DuckDB integration**: In-memory analytics for millions of rows
- **Chunked processing**: Processing in flexible blocks
- **Intelligent memory management**: Automatic memory cleanup
- **Lazy loading**: Load only the data currently needed
- **Column selection**: Read only relevant columns

Asynchronous Processing

- **Background processing**: The UI remains responsive during processing
- **Multi-threading**: Parallel execution of tasks
- **Resource management**: Automatic release of unused memory

Visualisation of Large Data Volumes

- **Figure resampling**: Automatic reduction of data points for high performance
- **Zoom-based aggregation**: Detailed view when zooming in
- **Interactive downsampling**: Smooth navigation without loss of detail
- **Efficient rendering**: Optimised display even with millions of points
- **GPU-accelerated visualisation**: Maximum performance at high resolution

IN ALL PACKAGES

Agent Playbooks

21 features

Define workflows once and have an AI agent execute them automatically.

Agent Playbooks

- **Agent Playbook**: Step-by-step instructions that an AI agent can read and execute independently in AUDIPY
- **Visual creation**: Build audit steps in the editor as usual, click, drag, done
- **Export as Agent**: One click automatically creates the complete instructions for the AI
- **Automatic execution**: The AI agent reads the playbook and carries out all steps independently
- **Traceable**: Written in plain language, anyone can read what the AI will do

Configuration Options

- **Language**: Choose German, English or Dutch
- **Level of detail**: Compact, Detailed or Expert
- **Column mapping**: Flexible (recommended) or Strict
- **Shareable**: Pass on and share playbooks as files
- **Flexible**: Automatically adapts to your data

Error Handling & Reports

- **Ask**: The AI asks when problems occur, you decide
- **Stop**: The AI halts and displays the error
- **Continue**: The AI skips the issue and documents it automatically
- **Automatic report**: PDF report with results after the analysis
- **Save results**: Automatic saving of all analysis data
- **AUDIPY required**: AUDIPY must be available for execution but can run in the background. The playbook is executed by an AI agent of your choice via MCP

Benefits at a Glance

- **Time savings**: Routine analyses in minutes instead of hours
- **Consistency**: Always the same result, no deviations
- **No IT knowledge required**: Visual editor, no programming needed
- **Multilingual**: German, English and Dutch
- **Error-proof**: Intelligent error handling built in

OPTIONAL ADD-ON MODULE

AuditPlus

16 features

DataFlows

- **DATEV**: ready-made preparation up to the standard journal
- **SAP DART**: ready-made flow for structured data preparation
- **Reusable**: set up a flow once and build on it in the next analysis

AuditSteps

- **Balance sheet structure**: Map accounts, create balance sheet, P&L and statistics
- **ForecastAudit**: Examine time series, forecasts and deviations
- **Word search**: Search posting texts in a targeted way, fuzzy too

Data Models

- **Templates**: Data model templates for DATEV, SAP DART and XRechnung
- **Your own models**: Link tables yourself, relationships remain visible and editable
- **Check locally**: Verify links before using them in analyses
- **With AMY**: Have relationships suggested (with AI package)

Dashboards

- **Templates**: e.g. annual financial statements, posting review and journal entry testing
- **Editable**: Switch data fields, add key figures, adjust the display
- **Interactive filtering**: one click filters all connected charts
- **Drilldown**: from the year down to the month and to the underlying data
- **Library**: Store the dashboards of an audit in an organised way
- **With AMY**: Create a dashboard from your question (with AI package)

On request, we show you AUDIPY online in English, free of charge. Or simply get in touch with us directly.

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