



EVIDAS®

Data acquisition software

Special features

- Setup and control of HBM DAQ systems
- Visualization of measurement data
- Online analysis through math library
- Store and export data in various formats
- Access to HBM Cloud-Storage
- Review data while recording
- Reporting

Data sheet



Editions

- EVIDAS Essential - Data acquisition, online analysis, visualization and storage
- EVIDAS Viewer - Visualization of previous recordings

Supported Windows versions

- Windows 7 (64 Bit)
- Windows 8.1 (64 Bit)
- Windows 10 (64 Bit)

GUI languages

- English
- German
- Chinese
- Japanese
- French

Supported DAQ families

- QuantumX
- SomatXR
- MGCplus
- PMX

Data acquisition with multiple DAQ families, e.g. QuantumX and MGCplus, are not yet supported.

Requirement	Minimum	Recommended
Screen resolution	1366x768	1920x1080
Graphics hardware	DirectX9 compatible graphics	DirectX11 compatible graphics
Processor	Single Core	Quad Core
RAM	8 GB	16 GB
Hard disk	HDD	SSD
Free disk space	400 MB for installation and 5 GB for recording	
Installation	.NET Framework 4.7.2 (included in setup)	

For access to HBM Cloud-Storage an active internet connection is necessary.

Option	Part number	Description
Single seat license	1-EVIDAS	For one PC During activation process the license is assigned to the PC
Floating network license	1-EVIDAS-FN	License can be shared among PCs A license server manages the licenses
Software Maintenance	1-EVIDAS-MT1	One year of software maintenance for EVIDAS Essential - Direct access to Technical Support - EVIDAS software updates released during maintenance period - 5GB space in HBM Cloud-Storage

EVIDAS licenses cannot be activated on virtual machines. Trial on virtual machines is possible.

Functional overview

Feature	Details	EVIDAS editions	
		Viewer	Essential
Data acquisition	Up to 12 MS/s or 100 MB/s		X
Recording of CAN and CAN FD signals	Together with CAN or CAN FD module, e.g. MX471C, ML71		X
Live visualization of measurement data	y(t) chart: Overview and time window, up to 16 axis layers, live data and review data in same graph X-Y chart: Display one or several signals over other signals, overview and time window mode, up to 16 axis layers Numeric display Live FFT Data table (live values and statistics) Text Full screen mode		X
Measurement and data acquisition	Start/stop condition of recording: At acquisition start/stop, on trigger, specified duration		X
	Pre- and Post-trigger		X
	Recording modes: keep all data		X
	Repetitive Recordings		X
	Save test information and channel configuration as meta data		X
Store in different data formats	EVIDAS PNRF format ASCII Excel MDF 4 MATLAB UFF58 (Binary and ASCII)		X
Statistics	Min, Max, Mean and Standard deviation are saved for every channel in EVIDAS PNRF data file		X
Analog output support	Configuration of analog outputs to output a scaled measurement signal to a voltage output.		X
Automatic start	After starting EVIDAS, automatically load defined EVIDAS project and start measurement		X
Live data analysis			
General scientific math	Basic algebra and exponential functions Logarithm Trigonometric functions		X
Rosette calculations	Calculate principle stress, principle strain, angle, stressX, stressY, strainX strainY, reference stress, shear stress and shear strain Create calculations for several rosettes in one step Transverse sensitivity corrections		X
Frequency Analysis	Live FFT in visualization: Peak, RMS, PS and PSD Averaging Peak detection		X
Cloud interface			
Access to HBM Cloud-Storage	Upload data to the cloud (automatic/manual) Download data from the cloud and share it with colleagues 5 GB space included when in maintenance		X
Live data streaming for web visualization	Supported IoT endpoints: Microsoft PowerBI, Bosch Production Performance Management Protocol (PPMP), Influxdata Influx Db, generic REST endpoint		X

Feature	Details	EVIDAS editions	
		Viewer	Essential
Post process data analysis and handling			
Data manager	Search and browse for recorded data files Detailed view of meta- and traceability data Add full recordings or single channels to project	X	X
Graphical data visualization	y(t) chart: up to 12 axis layers X-Y chart: Display one or several signals over other signals, up to 16 axis layers Data table (Statistics) Full screen mode	X	X
Import data	Catman bin files (including meta- and traceability data)	X	X
Export data	EVIDAS PNRF format ASCII Excel MDF 4 MATLAB UFF58 (Binary and ASCII)		X
Reporting	Print visualization panel		X
Automation			
Execution of external scripts	Automatic execution of Windows PowerShell scripts after DAQ stop		X
Additional system functionality			
Device configuration	Sample rate Filter Zero balance Device name IP Settings (QuantumX; MGCplus) Firmware update (QuantumX; MGCplus CP52)		X
Integrated sensor manager	Create and edit sensor templates HBM sensor database		X
I/O and channel parameterization	TEDS Sensor database Individual channel configuration dialog Table based configuration (Excel like)		X
CAN parameterization via DBC file	QuantumX, MGCplus		X
Diagnostics	Channel status DAQ status Logging of system events		X
Calibration data	Download and display calibration certificate from QuantumX, SomatXR and PMX devices.		X

Subject to modifications.
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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measure and predict with confidence

