

MXO AI CONNECT

Add AI to your oscilloscope

- ▶ Instrument aware
- ▶ AI vendor neutral
- ▶ Engineer remains in control

Your challenge

Engineers increasingly use AI agents to find information, improve code and automate tasks. However, general AI tools cannot natively understand oscilloscope functions, instrument help or SCPI commands. Making the transformation of measurement intent into reliable instrument control difficult.

Our solution

MXO AI Connect lets AI agents work with MXO oscilloscopes. AI clients gain instrument context, product knowledge and structured tools to reveal capabilities, generate SCPI commands and execute actions on the oscilloscope. Engineers remain in control and can verify every results directly on the instrument display.

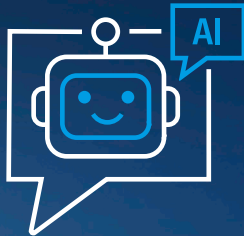
Engineer

Describes measurement in natural language



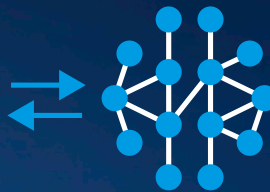
AI agent

Interprets request and coordinate the workflow



MXO AI Connect

Provides instrument context and structured tools



MXO oscilloscope

Executes commands and returns results



Flyer | Version 01.00

ROHDE & SCHWARZ

Make ideas real



Key facts

- ▶ Connect compatible AI agents with MXO oscilloscopes
- ▶ Search product help and identify relevant SCPI commands
- ▶ Configure and query the instrument with structured tools
- ▶ Capture the oscilloscope display for visual verification
- ▶ Use customer-preferred AI model and deployment environments
- ▶ Free use with every supported MXO oscilloscope

Your environment



AI agent

Model context protocol (MCP) compatible environment capable of using tools



Large language model (LLM) selection

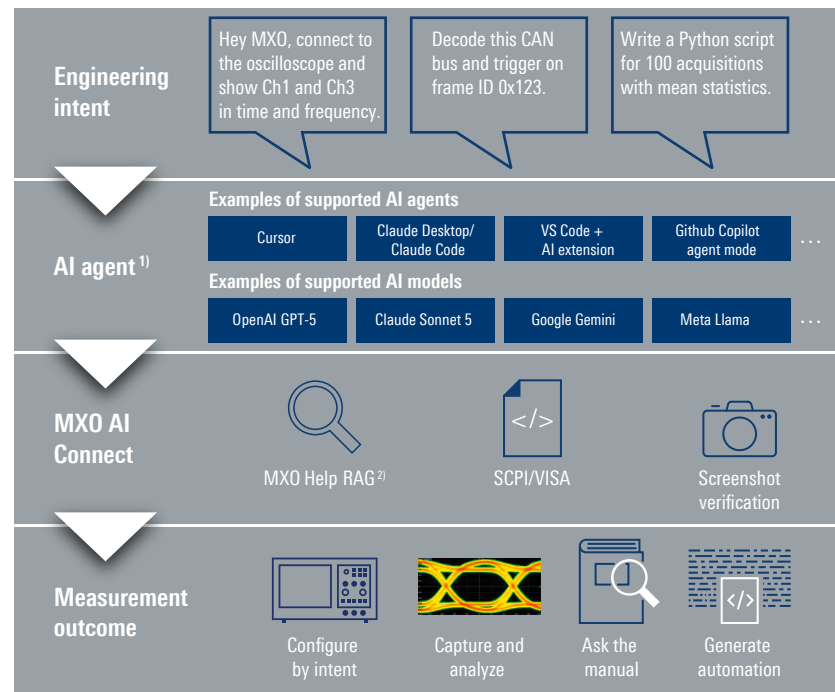
Cloud-hosted or locally deployed language model



Data-handling policy

Customer-selected AI model, credentials and deployment environment; data handling remains under customer control

Natural-language workflow



¹⁾ Product names and trademarks are the property of their respective owners. No affiliation, endorsement or sponsorship is implied.
²⁾ RAG: Retrieval-augmented generation.

Integration overview

Supported instruments	MXO 3, MXO 4, MXO 5, MXO 5C and R&S®ScopeStudio software
AI environment	MCP-compatible AI clients (with HTTP or STDIO support)
Instrument connection	LAN or USB using VISA driver
Instrument knowledge	MXO help content, instrument documentation, SCPI command information
Available tools	instrument discovery, help search, SCPI execution, queries and display capture
Customer control	AI client, model, credentials and deployment environment remain managed by the customer
Software requirements	Microsoft Windows and Apple macOS platform support
Availability	free software download



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