

THE FUTURE OF INDUSTRIAL HMI



HELIO is the professional tool for creating intuitive HMIs for all requirements.

Its innovative architecture makes HELIO scalable, consistent, highly customizable and future-proof.

- + NO CODE – Create HMIs without programming effort
- + USABILITY OUT OF THE BOX – developed by UX experts
- + WORKS ANYWHERE – Platform and device-independent

THE HELIO IDE
RETHINKING THE DEVELOPMENT ENVIRONMENT

SIGNIFICANTLY EASIER MEASURABLY FASTER

Developed by certified UX experts, HELIO provides professionally designed templates that offer high-quality interface design straight out of the box.

The result is not only easy to use, HELIO itself can also be learned easily and quickly, thus lowering development costs significantly.



SIMPLER PROJECT PLANNING

LIVE & DIRECT WORK WITH REAL-TIME DATA

When editing an HMI with HELIO the live PLC data can be displayed at any time in the editor.

Because there is no compilation step between editor and finished HMI, time-consuming intermediate steps are not required.

This is more than WYSIWYG – it is “What You See Is What It Is”.

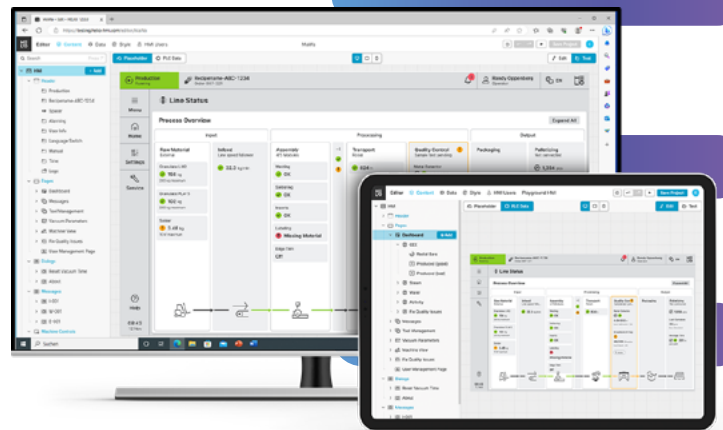


USE OF WEB TECHNOLOGIES

THE WEB INDEPENDENT & FUTUREPROOF

HELIO is manufacturer-independent and runs on any hardware (minimum requirements provided). By the use of web technology you can work with the development environment cross-platform on any device running a modern browser, no matter if Windows, Linux or Mac.

This also makes HELIO particularly future-proof, because the exchange of hardware - whether displays, computers or machine components - has no influence on the usability.

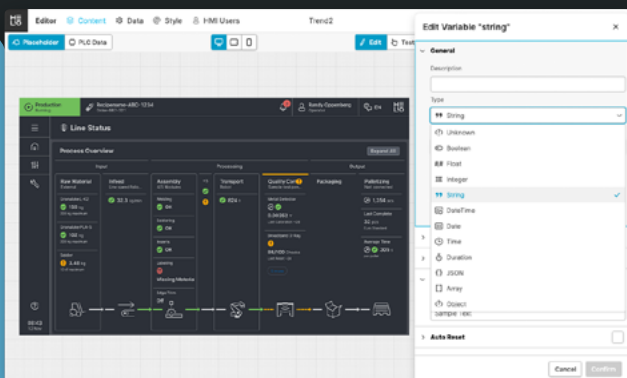


NO CODE

HMI DEVELOPMENT WITHOUT PROGRAMMING EFFORT

Because editing HMIs in HELIO is so easy, better results can be achieved faster. This reduces learning and handover times and is easy on the budget. With HELIO, the creation of HMIs is no longer a software development project, as no programming skills are required.

This means that your control system developers can focus on their core competence.





FLEXIBLE AND ADAPTIVE

TRUE RESPONSIVENESS.
ANYTIME. FOR ALL DEVICES.

HELIO is inspired by the architecture of modern websites. This means that the elements of the HMI adapt intelligently to the respective end device.

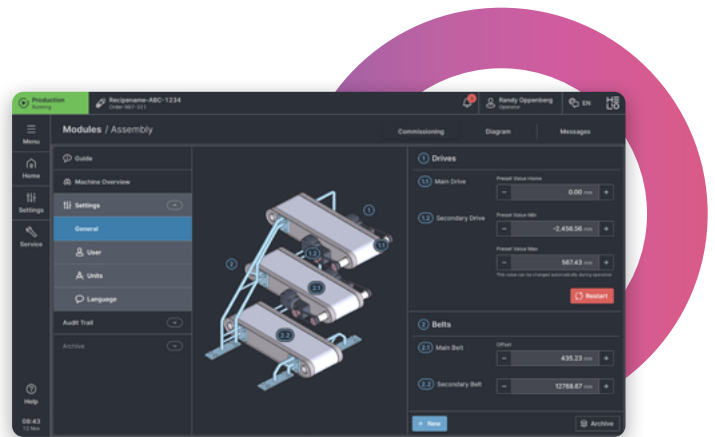
Whether 27-inch monitor, tablet or smartphone: All HMIs built with HELIO automatically optimize their display for the respective screen size - without having to create a separate layout for it.

DEVELOPED BY UX-EXPERTS

USABILITY OUT OF THE BOX

User interfaces that focus on users and usability work better, faster and easier, because they are more than just cosmetics on the surface. HELIO takes care of the interface design for you with intelligent UX components.

At HMI Project, we have been designing and developing internationally award-winning user interfaces for over ten years. This expertise goes into the development of HELIO.



FURTHERMORE, HELIO OFFERS

- The preconditions to ensure a uniform design system throughout the company
- Simple and flexible data point connection and modeling
- A fair, transparent and individual price and license model
- The possibility to integrate external web content via iFrame
- Regular updates and a constantly growing element library



THE HELIO ARCHITECTURE

USERS

The HELIO development environment (IDE) enables the creation of excellent HMIs **without programming skills**. Whether engineer, designer, product owner or service technician - with HELIO, anyone can create HMIs that are **automatically fully responsive**.

HELIO CLIENTS

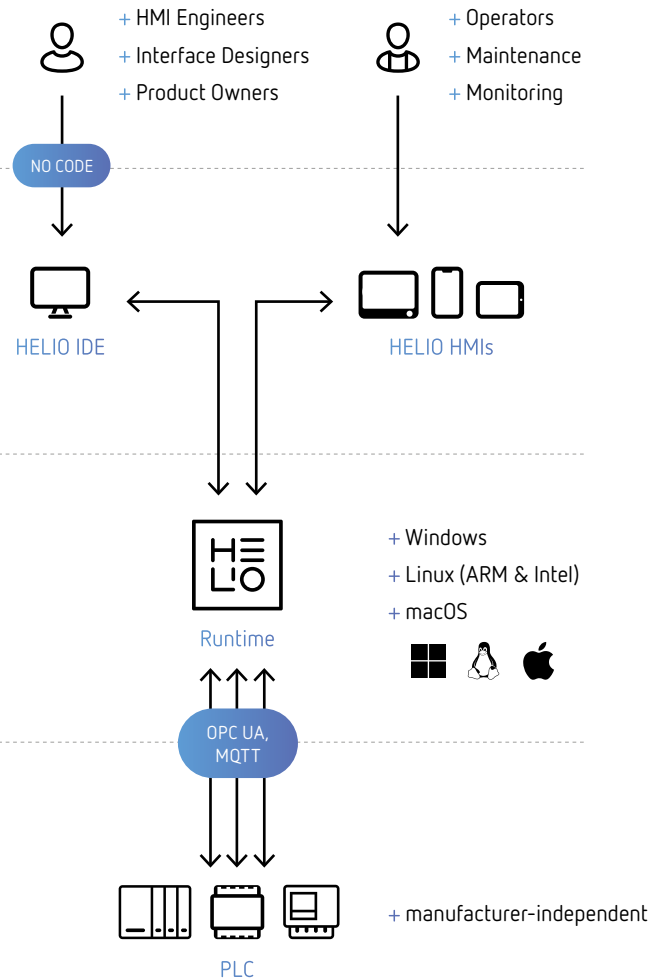
The HELIO IDE and the HMIs created with it are based 100% on web technologies and are therefore **device-independent**. This enables flexible use of the IDE directly on the machine on site, without complicated installation processes.

HELIO RUNTIME

The runtime runs on all common **operating systems and processors**. It delivers the HMIs and the IDE to all end devices and mediates between the controllers and all connected clients - securely and quickly.

PLC

HELIO Runtime monitors the controller data via interfaces such as **OPC UA** or **MQTT**. The business logic - the core of the application - remains in the PLC and does not mix with the display logic of different clients.



MULTILINGUALISM AND INTERNATIONALIZATION

- Native UTF-8 support
- Multilingual projects
- Language switching in the HMI
- Ex- and import of language tables

SUPPORTED INTERFACE STANDARDS

- OPC UA (Unified Architecture)
- MQTT
- more on request

FEATURES

- Independent of platforms, hardware, manufacturers and end devices
- No Code
- Fully responsive
- User management with authorization concept
- Message and alarm list
- Intuitive data point management
- HMIs and development environments use 100% web technology: HTML5, CSS, JavaScript
- News archive
- Recipe management
- Exclusive operating rights
- Image page with dynamic SVG graphics (e.g. for PIDs or machine overview)

FREQUENTLY ASKED QUESTIONS

WHY IS HELIO RUNNING INSIDE A BROWSER?

The HELIO IDE is 100% web-based so that you can work comfortably on HMIs without having to install heavy software on the development computers. This enables easy access with a modern web browser. The project data is stored securely on the development computer. As soon as the development of

an HMI is complete, a HELIO runtime is installed on the target device and the project configuration is transferred from the development environment to the device. The machine then runs completely independent and offline.

WHICH SKILLS DO I NEED TO CREATE A HMI WITH HELIO?

You don't need any programming knowledge to create HMIs with HELIO. This makes HELIO a perfect tool for quickly responding and adapting to new requirements.

Project planning also becomes easier, since HELIO does not have to be operated by control developers.

WHAT ARE THE HARDWARE REQUIREMENTS?

Even if HELIO works wherever a modern browser is installed - we recommend using the following for a smooth display:

	RUNTIME	DEVELOPMENT ENVIRONMENT (Desktop)	HMI (Desktop & Mobile)
CPU	x86-64 (Intel, AMD) ARM (64 bit) min. 2 Kernels min. 800 MHz	x86-64 (Intel, AMD) ARM (64 bit) min. 4 Kernels min. 2 GHz	x86-64 (Intel, AMD) ARM (64 bit) min. 4 Kernels min. 2 GHz
RAM	min. 2GB	min. 4GB	min. 2GB

SUPPORTED BROWSERS Desktop: Chrome / Chromium, Microsoft Edge, Safari. Mobile: Chrome, Safari



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TEST HELIO NOW



At helio-hmi.com/demo you can download a free demo version and request a non-binding presentation.

Detailed documentation, tutorials and how-to videos are available at docs.helio-hmi.com.

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