



 NIRI



ARKITE

GUIDING YOUR
WORK WITH
AUGMENTED
REALITY.

ARKITE
SOLUTIONS



STRATEGIC COLLABORATION

Welcome to the Future of Innovation

At NIRI, we are thrilled to be distributor of Arkite systems in Italy. Our partnership with Arkite represents a shared commitment to innovation, excellence, and transformative technology.

Arkite's cutting-edge solutions embody the future of industrial efficiency and precision, and we are proud to support and advance this groundbreaking technology within the Italian market. We believe deeply in the potential of Arkite systems to revolutionize how industries operate, enhancing productivity and streamlining processes.

Here, you'll find insights into how these advanced systems can redefine operational standards, improve quality, and drive growth.

We are confident that the integration of Arkite technology will empower your business to reach new heights.

Our collaboration with Arkite is more than a business partnership; it is a shared vision of pushing boundaries and setting new benchmarks in the industry. Together, we are committed to delivering exceptional solutions that meet your needs and exceed your expectations.

Thank you for being part of this exciting journey. We invite you to explore the potential of Arkite systems and discover how they can transform your operations.



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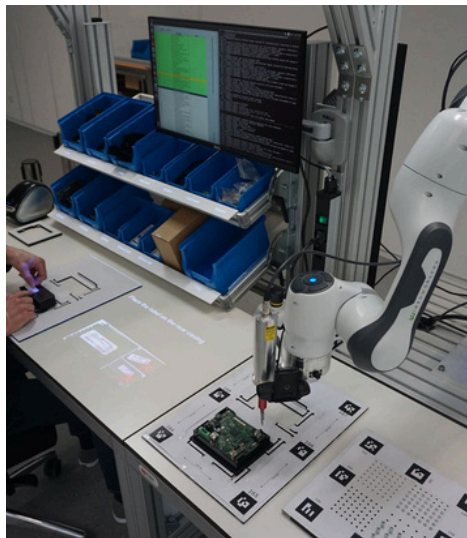
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Introduction to Arkite: Innovation in Augmented Reality

Arkite is at the forefront of transforming manual assembly lines through its cutting-edge Operator Guidance Platform. Utilizing Augmented Reality (AR), Arkite brings digital work instructions directly into the hands of operators, projecting them onto workbenches and ensuring an intuitive, real-time interaction. This innovative platform seamlessly integrates with existing manufacturing environments, enabling significant improvements in productivity, quality, and operational efficiency.

One of the platform's standout features is its sensor-based validation, ensuring every step of the assembly process is executed correctly and efficiently, thus reducing errors and enhancing quality

Moreover, Arkite's vision system integration and smart tool communication allow for advanced product inspection and precision in manual operations. This empowers operators to perform their tasks with greater accuracy, reducing the need for rework and improving overall workflow consistency.



Arkite's approach not only revolutionizes manual processes by digitizing workstations but also offers a flexible and scalable solution, adaptable to diverse industries. Whether it's the aerospace sector, automotive, or high-tech electronics, Arkite's platform ensures your workforce is empowered with modern, intelligent tools that align with Industry 4.0 standards. By implementing Arkite, manufacturers can experience faster onboarding of new employees, seamless integration of multi-variant products, and enhanced safety protocols. This is more than just augmented reality—Arkite is about making manual workstations smarter, more efficient, and future-ready.

The **future** of manual assembly starts now, with Arkite leading the charge in the digital transformation of manufacturing.

(•)
ARKITE
GUIDE

- ✓ **Digital work instructions**
- ✓ **Augmented Reality projections**
- ✗ **Operator Validation**
- ✗ **Product vision**

- ✓ **Projector**
- ✓ **Touch Screen**
- ✓ **Arkite PC**



If your organization has experienced operators and complex assembly processes with flexible production demands, Arkite Guide can provide necessary guidance. You can complement your existing Arkite Validate systems by equipping some workstations with Arkite Guide.



ARKITE

VALIDATE



Digital work instructions



Augmented Reality projections



Operator Validation



Product vision



Projector



Touch Screen



Arkite PC



Arkite 3D Sensor



Arkite Validate is our default license suitable for most industrial business cases. It efficiently trains operators, enabling quick deployment in production without constant supervision. Reduce training time, improve quality, and minimize scrap and errors with Arkite.



ARKITE

VISION



Digital work instructions



Augmented Reality projections



Operator Validation



Product vision



Projector



Touch Screen



Arkite PC



Arkite 3D Sensor



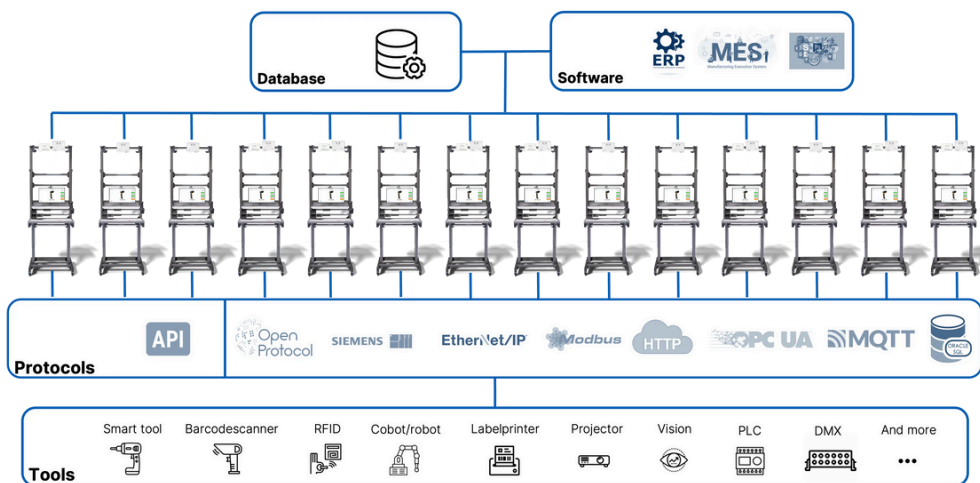
Arkite Vision Camera



For manufacturing high-value or long assembly cycle products, operator activity validation may not be enough to meet quality requirements. Arkite's integrated vision camera verifies assembly status at any stage, distinguishing between expected and faulty results through learning.



ARKITE Ecosystem



Arkite's Operator Guidance Platform comes with a flexible Application Programming Interface (API) that allows swift communication with other applications in your software ecosystem, like MES and ERP systems.

Furthermore, a wide variety of communication protocols are supported, enabling the system to communicate to external devices.

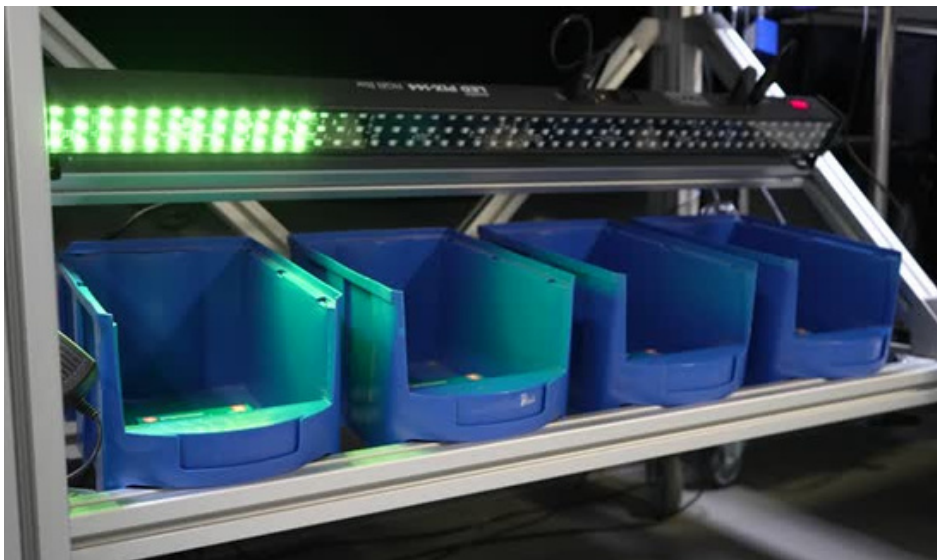


ARKITE

Pick-by-Light with DMX

With our DMX communication module, you can connect DMX lights through an Enttec Open DMX USB interface (SKU 70303). This allows you to implement pick-by-light operator guidance instead of projections.

This is of particular interest in use cases with large picking containers or picking containers that are arranged in a larger area that can not be covered with a limited number of projectors.



ASSEMBLY

Guide your operators through increasingly complex assembly processes with projected AR



PAPERLESS

Eliminate paper manuals from your workplace by digitizing your work instructions. Increase the productivity, quality and sustainability



TIGHTENING

Secure the correct sequence, positioning and torque levels of your tightening operations through 3D sensor validation and smart tool integrations



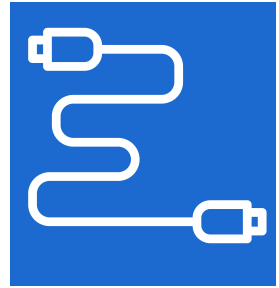
TRACEABILITY

Create a documented trail of all components used in your assembly process and integrate seamlessly with your company's MES system



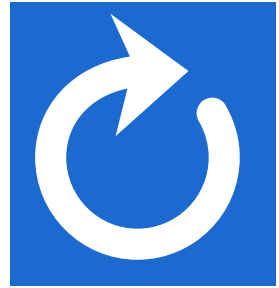
CABLING/WIRING

Guide complex wire harness assemblies through the projection of 1:1 CAD/CAM drawings and related digital work instructions



FLEXIBLE PRODUCTION

Support multi-product assembly lines by providing real-time customized digital work instructions



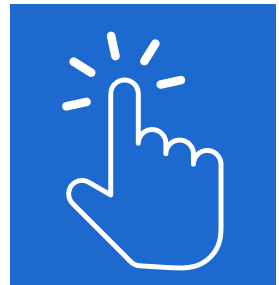
STANDARDISED WORK

Translate your SOP's into digitized work instructions and enforce them through step-by-step projection and validation



PICKING & KITTING

Support operators in their picking and kitting tasks with Arkite's pick-by-projection solution and 3D sensor validation





ARKITE



Dashboarding
Data analytics



CAD+CAM
support



Multi-language
support



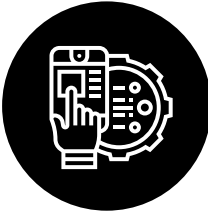
Product
inspection



Project
versioning



ARKITE



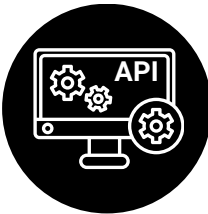
**Experience level
customization**



**Manage product
variants**



Connectivity



**Arkite API
integration**



**Smart tool
integration**

Our Services and Support

As distributor of Arkite in Italy, **NIRI** is dedicated to delivering specialized services that cater to our clients' unique needs. Our comprehensive approach guarantees smooth integration and sustained success.

Specialized Consulting: We collaborate closely with you to identify your production challenges and provide strategic advice on optimizing Arkite's capabilities for enhanced efficiency

Custom Solution Engineering: We tailor Arkite solutions to seamlessly fit your operations, ensuring that the system meets your specific tasks and goals for maximum impact

Software Development and Programming: Our team customizes Arkite's software to align with your workflows, ensuring seamless integration with your existing tools and systems

Installation and Hardware Support: From selecting the right hardware to full installation, we ensure Arkite is properly set up and fully operational in your facility

Smart Tool Integration: We enhance Arkite's functionality by integrating it with advanced technologies, creating a unified and intelligent production environment

Partner with us to benefit from our technical expertise and ongoing support, ensuring Arkite delivers continuous, tangible results for your business





Contact Us

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