PRIME**C**OBUILDER®

THE FRAMEWORK DESIGNED TO SIMPLIFY
DEVELOPMENT AND MAKE EVERY MACHINE VISION
SOFTWARE APPLICATION MORE EFFICIENT THAN EVER

CONCRETENESS MEETS INNOVATION

WHEN **EXPERTISE HELPS YOU** "SEE"

PrimeCoBuilder is the development platform for all needs: the **framework** designed to **simplify the implementation** of any machine vision application from start to finish and **make it more efficient** than ever.
It is essential to **design**, **build** and **operate** a vision system at all stages, from image acquisition to communication with the outside world, real-time monitoring, and diagnostics.

A product that comes from more than 40 years of collective experience of the Primeconcept team and the realization of applications for the most diverse market sectors, which now paves the way to the future for every user.

LIBRARIES AND **PLUGINS**, THE SECRETS OF **FLEXIBILITY**

PrimeCoBuilder does not impose the use of a single machine vision library, determined in advance, but **leaves the user** free to use their own libraries or to adopt specific ones or both. PrimeCoBuilder can simultaneously support multiple **libraries from different sources**, which can be selected as needed, depending on the application to be implemented.

The **star architecture**, with a **central core** and various **plugins** connected to it, allows to respond with **maximum flexibility** to customer needs, as well as ensuring the simplicity of future implementations, expanding the functionality when necessary, with new plugins written ad hoc, expandable and customizable on demand at any time.

These features translate into **extreme versatility**, combined with **ease of use** since no computer programming knowledge is required: everything is managed through an **intuitive graphical user interface**, with differentiation between various levels of access and mode of use (development or runtime).

It is the software that adapts to the way you work, not the other way around.

FLEXIBILITY AND EXPANDABILITY,
TWO KEYS FOR COUNTLESS COMBINATIONS

Designed for machine vision professionals, **PrimeCoBuilder's** main strengths include and **advanced design**, with an IT structure specifically designed to make it **maximally usable**, **flexible** and **suitable** for every need.

With this framework you can **implement additional functions**, taking full advantage of combinations of **rule-based and neural algorithms**, dialoguing with existing platforms and systems or with other software, and thus encouraging true paths to modernization with minimal impact: a real economic and organizational advantage, a peculiarity that distinguishes PrimeCoBuilder from similar products.

BEYOND THE IMAGE,
THERE ARE HIGH-LEVEL INFORMATION

Not only does **PrimeCoBuilder** place no limits on the use of computer vision libraries for image analysis, but it is also **compatible with any image source**, both 2D and 3D.

It also offers **complementary tools** aimed at production control, such as **statistics** and valuable **diagnostic and tracking functions** for the supervision of the entire industrial process. The software performs calculations internally with expandable and scalable tools, which allow the performance and effectiveness of the applications to be continuously improved.

PrimeCoBuilder transforms the results of image analysis into **high-level information**, immediately usable for the purpose of a study of **time and motion** related to the industrial process, a study that can be used, among other things, for the progressive improvement of the process itself. The software is able to correlate data thanks to the **integrated reporting system**, complete with **customizable dashboard** with synoptic combination of tables and graphs.

Finally, it can integrate the management of **any control and communication peripheral** or **field device**, via digital I/O, both standard and real-time network protocols, IoT, etc.

Communicating and integrating with the outside world becomes quick and easy: machine vision becomes an integral part of factory automation.

MACHINE BUILDERS/OEMS
Technology exclusivity, collaboration, trust, business

A vision system can be the **element that differentiates** your solutions from those of your competitors.

Machine vision simplifies automation and increases its capability, flexibility and adaptability. A machine equipped with vision represents a generational leap from a model without this type of technology.

Not only that: machine vision can be the reason to build and market a new machine, offering new automation possibilities in your customer's supply chain.

You have a brand, you have a market presence and you know your customers' needs: take the opportunity to design with us your next machine equipped with machine vision or, why not, built around it.

SYSTEM INTEGRATORS
Experience, partnership, flexibility

Machine vision on your industrial systems is an **added value**. If requested by the customer or implemented on your own initiative, it can help the present automation by performing verification and control tasks on the assembled products.

The machine vision systems designed by us and integrated by you into an industrial plant can work 24/7 and **interact with your systems** in an increasingly transparent way. Submit your needs or those of your customers and we will provide you with a turnkey vision solution, complete with all the support necessary for its integration with your systems.

We are an experienced, adaptable and flexible partner to support you in the implementation of your integration projects.

INDUSTRIAL MANUFACTURERS
Quality, efficiency, productivity

Machine vision aims to **optimize quality**, **reduce costs**, **automate production**, collect data from lines as well as **facilitate the digitization** of factory environments.

The implementation of modern vision systems allows to improve the manufacturing process of any sector and guarantees a constant and objective quality of the products manufactured by offering extreme repeatability and precision with minimum configuration time. We reduce the need to adjust installed equipment to zero, cutting down on time, costs and downtime.

A machine vision solution, in an existing or newly designed facility, brings benefits that quickly offset the investment in any area of the manufacturing industry.

PRIME*THINKING:*
INDUSTRY 4.0 NEEDS VISION

STRATEGY

PrimeCoBuilder is a **strategic choice** that allows companies to manage complexities and build an ecosystem in which to leverage the power of the development environment built on Primeconcept's many years of experience.

INTEGRABILITY

PrimeCoBuilder has a **star architecture** that is flexible and allows you to use any commercial or proprietary library. A framework capable of integrating plugins without developing code with dynamic and scalable licensing management based on customer needs.

FREEDOM

PrimeCoBuilder gives companies the **freedom to choose** and use several systems of different types and nature at the same time. An open development environment that Primeconcept continuously evolves to support the industrial and business strategies of companies.

BIG DATA

PrimeCoBuilder winks at artificial intelligence, especially deep learning. This makes it possible to extract large amounts of information from each image, which is valuable for **lean production**. When this information multiplies over time, it becomes big data and its value can be very high indeed.

FLEXIBILITY IS NOT ONLY TECHNOLOGICAL:
DISCOVER THE PARTNERSHIP PROPOSALS

The purchase of the license is the basis of the traditional business relationship, but Primeconcept also offers assistance in the development of the application through a series of collateral activities, to make the most of the framework. It ranges from training, to learn how to use it from scratch or to deepen the knowledge, to the support of programmers during development, up to the turnkey application. An offer that follows the canons of **Primeconcept's vision** that intends collaboration with the customer not only as technical support, but above all as a strategic partnership.

PrimeCoBuilder CORE MEMBER OF A NEW ECOSYSTEM

Giano Smart EcoSystem, whose name is inspired by the Roman deity who observes the past to predict the future, welcomes **PrimeCoBuilder** as one of its main components. Through the extensive use of machine vision and the integration of the most varied production data collection systems, **Giano** receives a large amount of information and then processes it using the most modern artificial intelligence, in order to bring your production efficiency to new levels of performance.

WE LOOK BEYOND THE OBSTACLE.
WE GUARANTEE CONCRETE RESULTS

We don't stop where others stop, but we continue on our way, always cutting new goals, supported by the most innovative technologies on the market and driven by the desire to give our best.

The fuel for our mind and our muscles are your needs, whatever they may be. This is where our race begins, whose goal will be to give answers to your questions with concrete and completely personalized results. Because every race has its starting line, its path, its finish line and beyond.

Primeconcept adds the new PrimeCoBuilder framework to its suite of interconnected, high-performance special solutions: PrimeCoPilot capable of digitizing processes, objectifying actions, preventing errors and harmonizing man and machine, and PrimeCoMate created to objectify quality, distinguish defectiveness in products from natural variability, and free humans from alienating tasks.

PRIMCONCEPT ®
DEEP VISION SOLUTIONS

2007·2022
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YEARS OF INNOVATION
PRIMCONCEPT

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