



GAMA

INDUSTRIAL AUTOMATION SYSTEMS

MONITORING | CONTROL | AUTOMATION

Specialized multi-purpose system Automation and project management (ERP) Poultry industry



www.gamma360.ir

The event's Golden Bud Award is given to Gamma 360

(Specialized Automation System for the Poultry Industry)



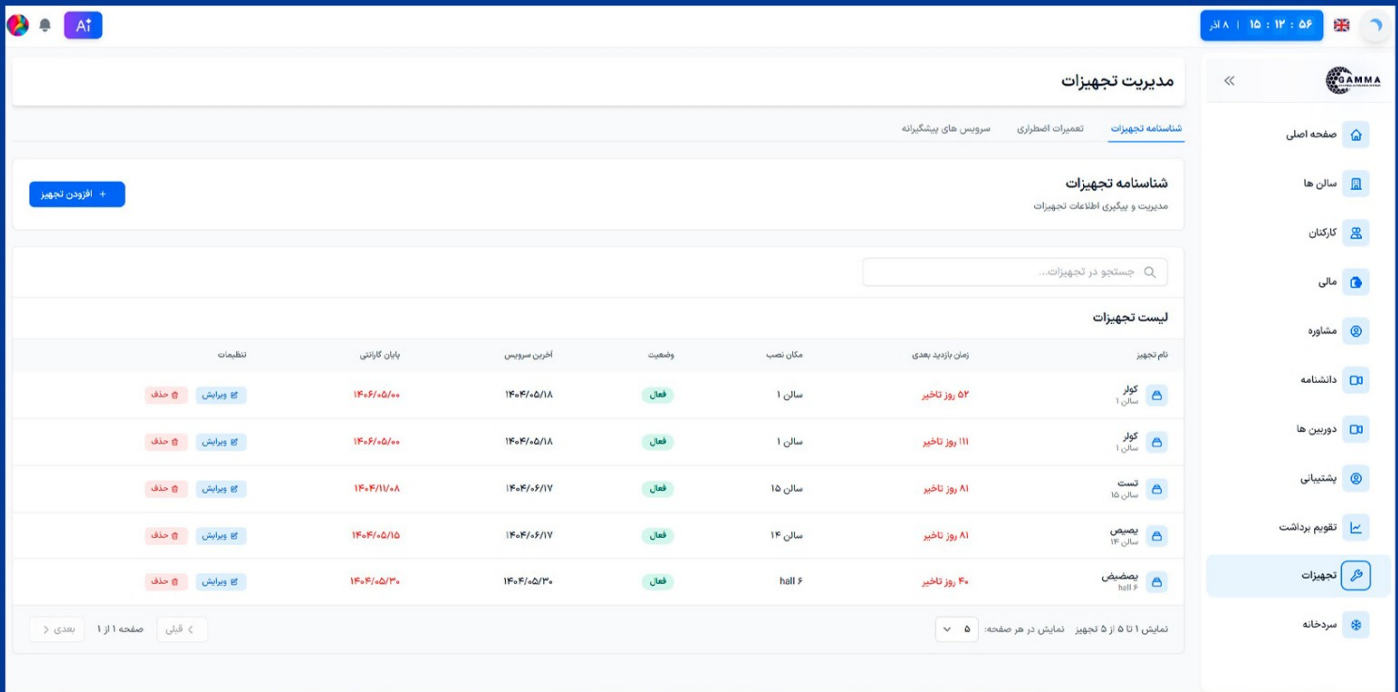
AT A GLANCE

Safir Iranian Kasra Technology and Knowledge-Based Company (Gamma ۳۶۰) is one of the leaders in the specialized multi-purpose intelligent automation industry for the Iranian poultry industry, focusing on smartization and improving productivity in production processes, providing innovative, sustainable and scalable solutions and services.

We design and implement advanced intelligent systems in the poultry industry by relying on a team of experts in the fields of electricity, electronics, software and artificial intelligence and utilizing modern cloud and digital twin technologies.

Using artificial intelligence architecture and cloud technologies, Gamma ۳۶۰ has provided the ability to provide equipment automation solutions with remote monitoring and control over the Internet or intranet based on Digital Twin, as well as hyper-automation and project management (ERP) software features in the form of an integrated and flexible platform.

GAMMA 360 SYSTEM FEATURES:



The screenshot shows the 'مدیریت تجهیزات' (Equipment Management) interface. It includes a search bar, a table of equipment, and a sidebar with navigation options.

نام تجهیز	زمان بازدید بعدی	مکان نصب	وضعیت	آخرین سرویس	بازمان کارتنی	تنظیمات
کوچک ۱ سالن ۱	۵۲ روز تاخیر	سالن ۱	فعال	۱۴۰۴/۰۵/۱۸	۱۴۰۴/۰۵/۰۰	حذف ویرایش
کوچک ۱ سالن ۱	۱۱۱ روز تاخیر	سالن ۱	فعال	۱۴۰۴/۰۵/۱۸	۱۴۰۴/۰۵/۰۰	حذف ویرایش
تست ۱۵ سالن ۱۵	۸۱ روز تاخیر	سالن ۱۵	فعال	۱۴۰۴/۰۶/۱۷	۱۴۰۴/۱۱/۰۸	حذف ویرایش
یضیی ۱۲ سالن ۱۳	۸۱ روز تاخیر	سالن ۱۳	فعال	۱۴۰۴/۰۶/۱۷	۱۴۰۴/۰۵/۱۵	حذف ویرایش
یضییی hall ۶	۴۰ روز تاخیر	hall ۶	فعال	۱۴۰۴/۰۵/۳۰	۱۴۰۴/۰۵/۳۰	حذف ویرایش

- Comprehensive management through precise sensors and powerful cloud servers.
- Exclusive design based on understanding the needs of the poultry industry.
- Continuous monitoring, supervision and control on-site and remotely on the Internet and Intranet platforms.
- 24/7 online support.
- Easy installation, troubleshooting, and central log monitoring.
- Possibility to change betting plans by the user and remotely Handler hardware made in Iran without the need for foreign products.
- Multi-level intelligent alert systems based on need.
- Ability to calibrate sensors online.
- Flexible and connectable with existing installations and equipment on the market.
- Salon consultants have access to automation data.
- Access to 2D and 3D views of the hall.

GAMMA 360 SYSTEM FEATURES:

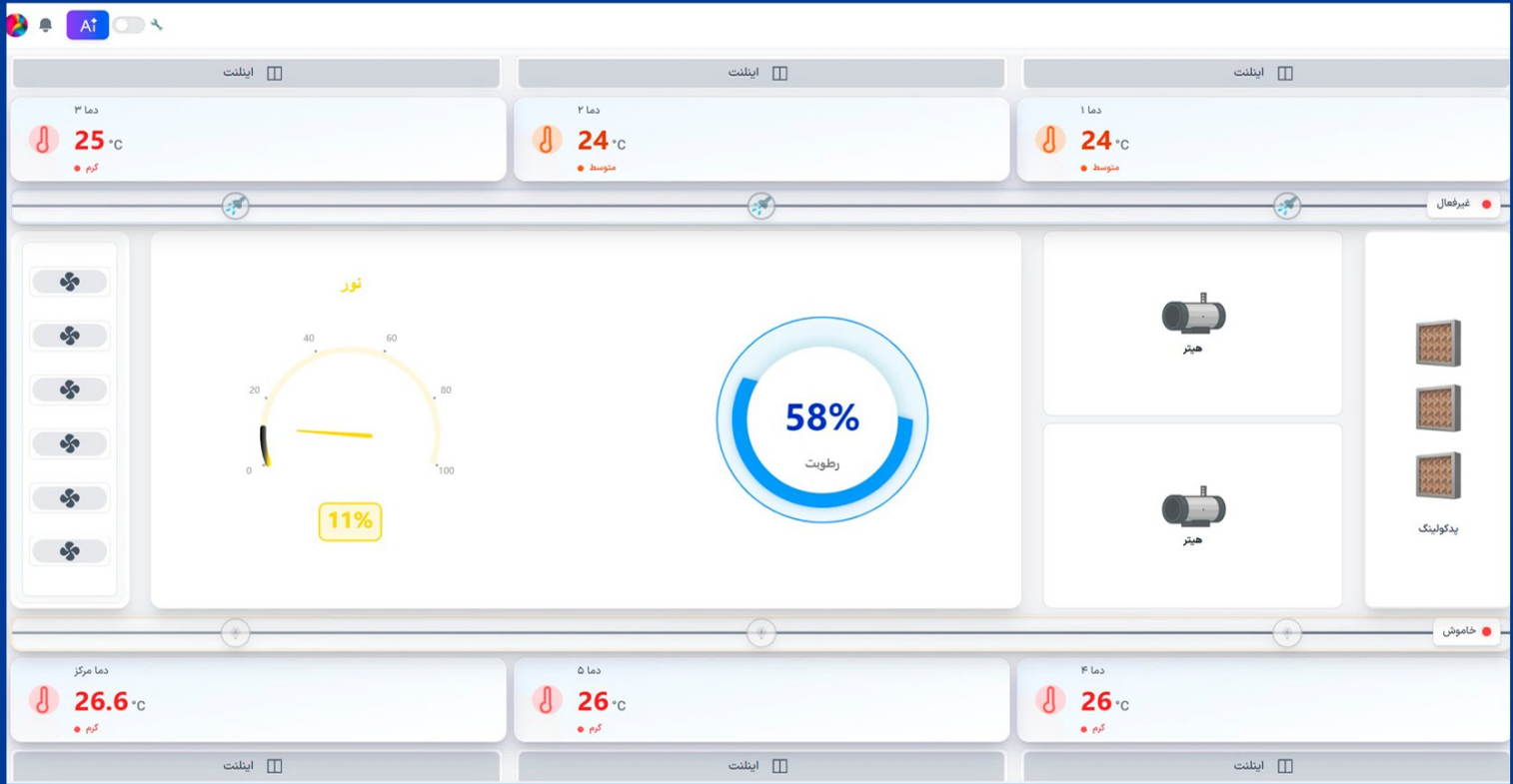
- Step control and climatic references
- Full provision of temperature–humidity–ammonia–lux meter–CO₂ sensors
- Easy ability to change the system from manual to automatic and vice versa



- ▶ Portable device for measuring poultry farm environmental conditions. Instant and accurate measurement of temperature, humidity, CO₂, ammonia and light for manual inspections inside the halls.
- ▶ **Features:**
 - ▶ Portable and ergonomic; suitable for fast and accurate monitoring in all parts of the hall
 - ▶ Internal long-life battery; long use without the need for electricity
 - ▶ Instant display of environmental parameters with accurate sensors
 - ▶ Accurate and industrial sensors for harsh poultry farming conditions
- ▶ **Practical benefits :**
 - ▶ Quick decision-making for ventilation, heating and hall management
 - ▶ Reducing the risk of disease and losses by identifying critical points
 - ▶ Suitable for daily visits by the hall manager and technical expert
 - ▶ Possibility of regular tracking and reporting of the environmental status

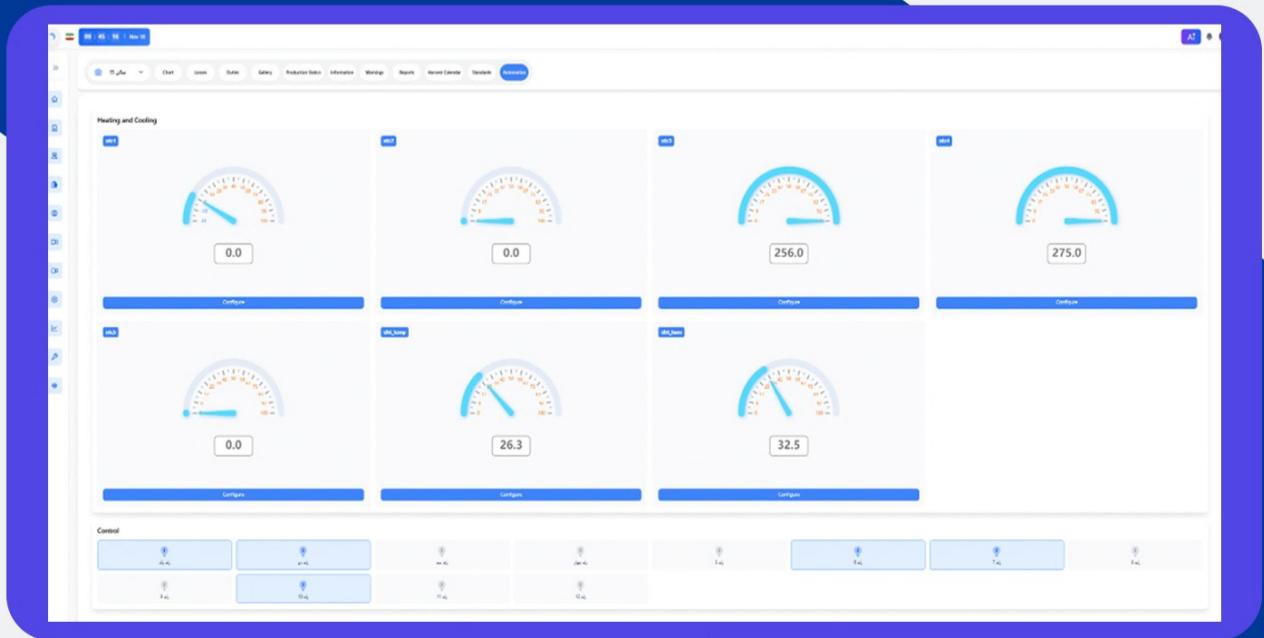


GAMMA 360 SYSTEM FEATURES:



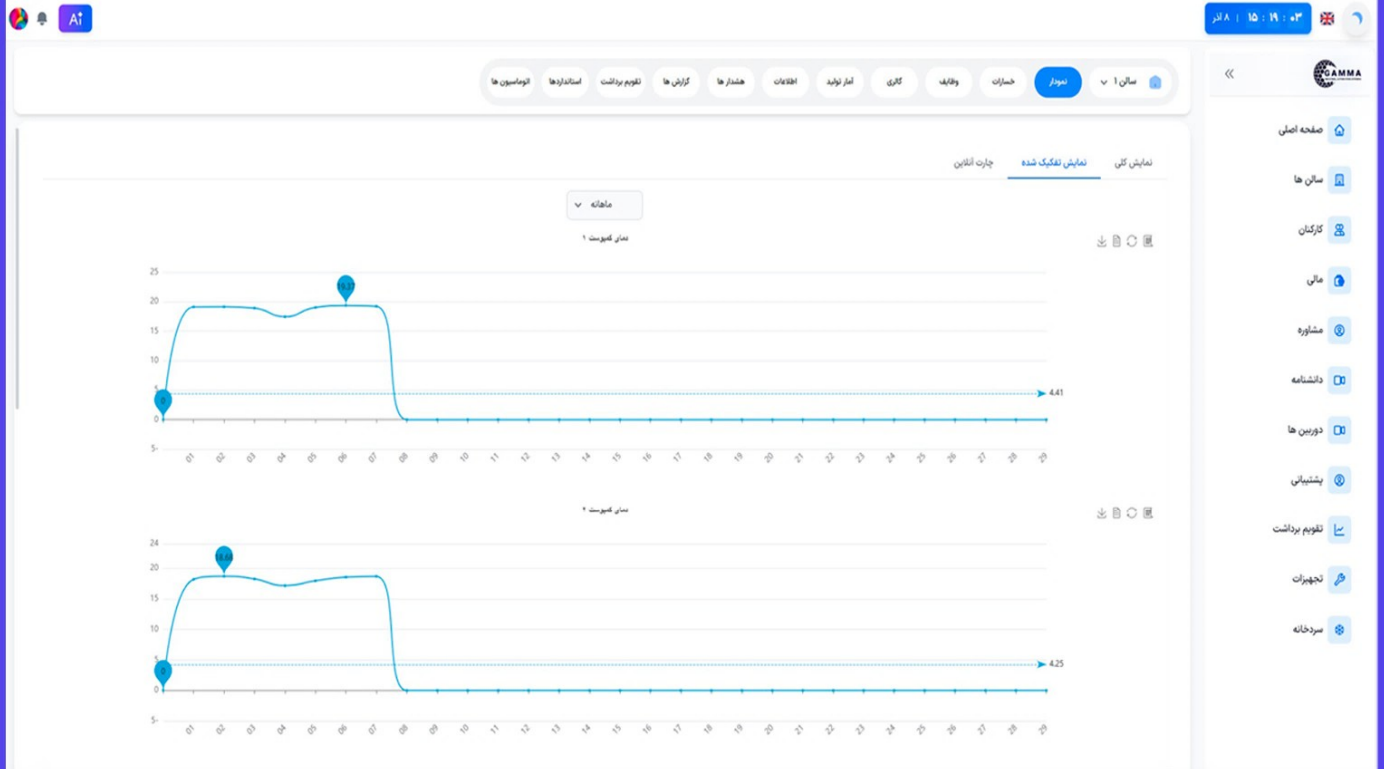
- ◆ Display and analyze collected sensor data and compare with standard patterns.
- ◆ Record pests, diseases, drugs and supplements consumed during the period and compare between periods.
- ◆ Forecast and inform based on sensor data for possible future problems.
- ◆ View individual and aggregated sensor graphs for the entire period and permanent maintenance.
- ◆ Record a gallery of images and videos of the period for video surveillance of the halls.
- ◆ Ability to connect surveillance cameras and schedule data maintenance.
- ◆ Ability to process disease images with artificial intelligence.
- ◆ Ability to record digital IDs of equipment for service and maintenance.
- ◆ Ability to access consultant and personnel to user panels with limited access.
- ◆ Ability to record chick statistics and losses and feed coefficient calculations.
- ◆ Ability to calculate hall performance and compare with other halls and periods.
- ◆ Vaccination and drug calendar.
- ◆ Ability to monitor and analyze daily water consumption.

GAMMA 360 SYSTEM FEATURES:



- ◆ Reporting of loss deviations.
- ◆ Reporting of time out of range (TOR).
- ◆ Weighing and uniformity standards.
- ◆ Advanced economic indicators (Economic KPIs).
- ◆ Possibility of recording a feeding program.
- ◆ Production Performance Index (PN) and European Efficiency Factor (EPEF).
- ◆ Comprehensive system of standards and deviations (Deviation Management).
- ◆ Knowledge architecture and suggested actions (Prescriptive Analytics).
- ◆ The Gamma 360 hyperautomation system has the ability to prescribe action, which is achieved by implementing a specialized knowledge base (Knowledge Base).
When the system identifies a critical deviation (for example, weighing 5% below target or TOR high ammonia), it should propose specific management instructions to the hall manager based on predefined protocols.
For example: If weight gain is low, the system can suggest: "Check feed quality and flock uniformity (CV%); increase house temperature to reduce bird body energy consumption." This level of intelligence has transformed the system from a mere reporter to a technical advisor.

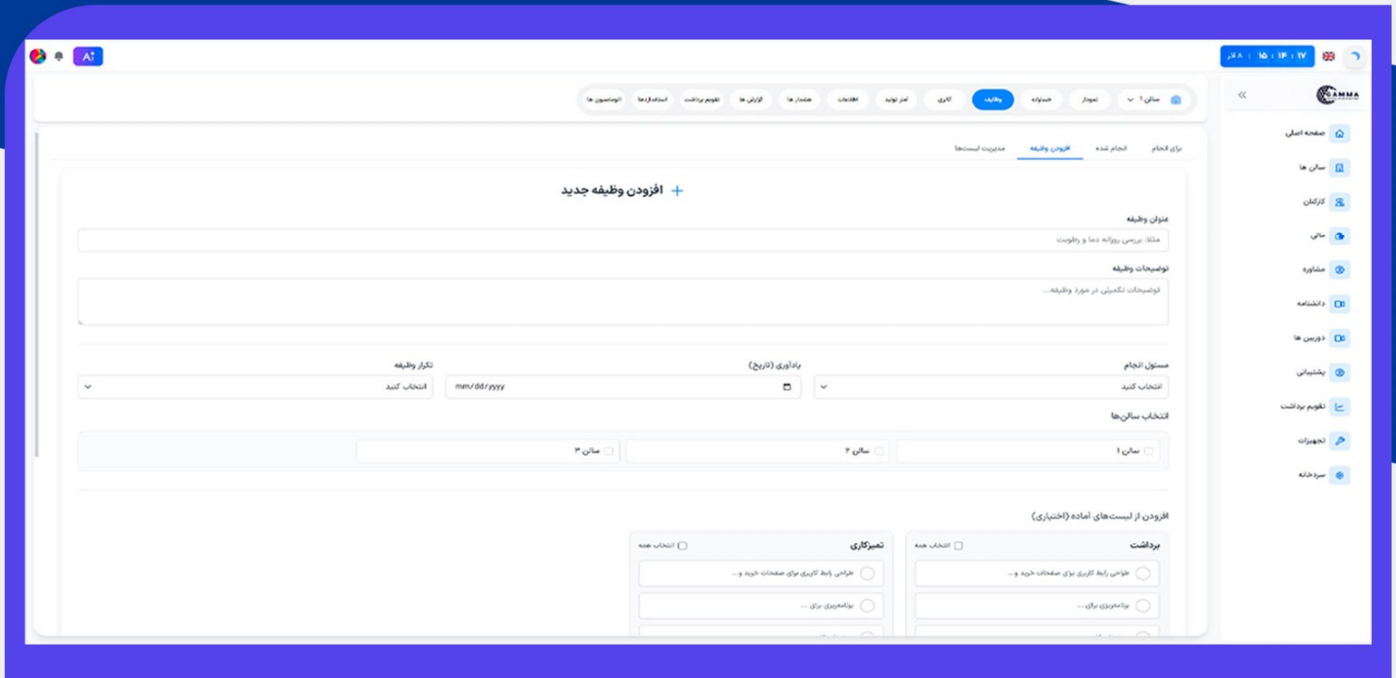
▶ IMPORTANCE OF AUTOMATION IN THE POULTRY INDUSTRY:



Implementing automation solutions in poultry farms, as a strategic choice, provides operational accuracy, continuous monitoring and intelligent resource management, paving the way for increased productivity, reduced costs and guaranteed flock health. Automated systems increase the speed of operations by reducing human errors and automating processes, optimizing energy and resource consumption.

Also, advanced data monitoring and analysis technologies enable precise control of environmental conditions and early detection of poultry health problems, which prevents widespread losses.

▶ KEY BENEFITS AND APPLICATIONS:



- 1. Accurate resource management and energy consumption reduction:**
Intelligent planning of electricity, ventilation and feeding consumption leads to significant savings and reduced operating costs.
- 2. Continuous remote monitoring and control:**
Central access to data and real-time alerting enable rapid management and timely decision-making.
- 3. Data-driven analysis for production optimization:**
Data collection and analysis enable optimization of breeding parameters, performance prediction and more accurate planning.
- 4. Rapid disease detection and loss prevention:**
Continuous monitoring of health and environmental indicators enables early detection of abnormalities and prevents the spread of diseases.
- 5. Reduction of human errors and increased product quality:**
Standardization of processes and automation of tasks ensures error reduction, production uniformity and product quality improvement.
- 6. Increased productivity and financial returns:**
The combination of operational optimization, loss reduction, and quality improvement leads to revenue growth and improved return on investment.



► Are you ready to make your poultry farm smarter?

Our mission is to transform the management and operations structure of production units through process optimization, cost reduction, quality enhancement, and data-driven analysis.

Gamma360, as an all-Iranian product without dependence on foreign hardware, currently provides integrated, sustainable, and intelligent services to a wide range of production and agricultural centers across the country.

At Gamma360, we are always ready to answer questions and provide specialized advice to our valued customers. Contact us for more information about our services and products or to receive dedicated advice on making your poultry house smarter.

