HanPrism

Industrial Big Data Platform

HanAra Software

ANY

ONE
TIME
WHERE

Data into
Actionable intelligence

Product Info.

Industrial Big Data Platform, HanPrism

HanPrism is an integrated data management solution that collects, processes, analyzes, and visualizes vast amounts of time-series data generated by equipment sensors. With HanPrism, anyone can access and leverage the data anywhere at anytime to improve operations. As a centralized data historian, HanPrism creates the grounds for collaboration and asset optimization.

Q What type of data does HanPrism receive?

A **Nanosecond(ns) & Microsecond Data(µs)**
: Sensor data like current, voltage, acoustic, and vibration
Second Data : Sensor data like temperature, flow, and pressure
Minute Data : Sensor data like meter and building

Necessity

Turn your organization's vision into a reality by leveraging insights generated from accurate and centralized data. Experience a digital plant transformation that increases facility efficiency and reduces operating costs with accurate data-informed decisions.

# AccurateData	# ImprovedDecision-Making	# IntuitiveInsights	# DigitalInnovation

| # IncreasedFacilityEfficiency	# OptimizedOperations	# EffectiveMaintenance

HanPrism

Why HanPrism?

Integrated Data Management
HanPrism interfaces with various industrial systems including DCSs, PLCs, and SCADAs regardless of the manufacturer. In addition, it connects with third-party systems including MESs, CMMSs, and ERPs so you can manage plant data with a single system.

Data Reliability
HanPrism accurately collects raw data and stores it without data loss. HanPrism supports system redundancy and has data recovery capabilities to prevent data loss in the event of a network or system failure.
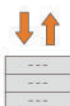
Big Data Storage
HanPrism efficiently stores large amounts of data in real time. HanPrism also loads historical data quickly regardless of duration. For example, HanPrism loads one year of historical data within a second.

High-Speed Data Processing
HanPrism collects data captured at varying speeds from nanosecond to minute intervals. Whether you need to monitor a data trend in real time or analyze the cause of the problem with waveform analysis, HanPrism ensures access to the right information.

Easy and Convenient Analysis
HanPrism provides built-in analysis tools to help users understand and contextualize data accurately and easily. It supports trends, alarm management, reporting, web and mobile data access, and dashboard creation.

Enhanced Cybersecurity
HanPrism supports physical unidirectional communication for network security. It uses encryption algorithms such as SSL, HTTPS, WPA, WPA2, WPA-2PSK, and AES.

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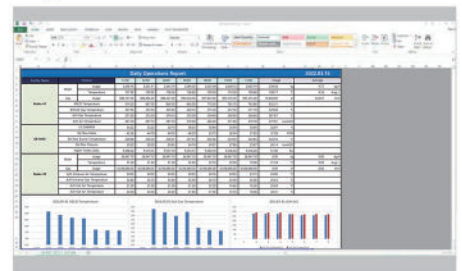
Features

1 Intuitive real-time and historical status monitoring

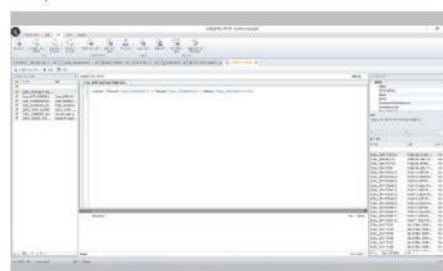**2** Integrated alarm analysis and management
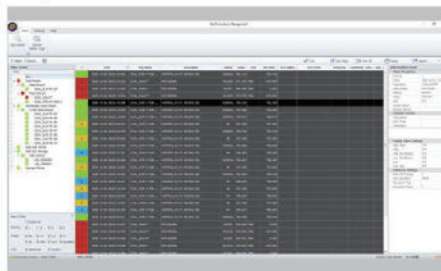
3 Automated reporting through a Microsoft Excel add-in

4 Flexible and customizable web dashboards

5 Improved analysis with calculated tags

System Architecture

		HanPrism Spotlight	HanPrism Alarm	HanPrism Insight	HanPrism Spreadsheet
O&M	**HanPrism Client**	· Real-time/Historical Process Status Analysis · Inquire Real-time/Historical Data · Trend Analysis · User/Tag Management	· Real-time Alarm Monitoring · Adjust Alarm Set-Point · Inquire Historical Alarm	· Web Dashboard · Web-based Process Monitoring	· Retrieve Historical Data in Excel · Create Daily/Weekly /Monthly Report

Site #1 — Data Visualization

Site #n — Data Visualization

HanPrism Integrated Server

HanPrism Server

Site #1 — HanPrism Local Server
Real-time Data Collect·Process·Archive

Data Integration •••

Site #n — HanPrism Local Server
Real-time Data Collect·Process·Archive

Interface
OPC UA/DA, IEC61850&60870-101&103&104, Modbus, BACnet, C-NET, DNP3.0, MQTT

Control
PLC   SCADA   DCS

Sensor
Machinery(Sensor & Field Instrument)

Orange Area BNF Technology's Business Area

HanPrism Process

Real-time Data Acquistion	❯	Process Data	❯	Archive Data	❯	Data Visualization· Analysis·Collaboration

HanAra
Software

References

TEXAS The University of Texas at Austin	**TENAGA NASIONAL**	Desert View Power LLC, an affiliate of **Greenleaf POWER**	**NUR** power	**UK** University of Kentucky
KOREA HYDRO & NUCLEAR POWER CO., LTD	**Gyeonggi** Green Energy	**DJCP**	**SUNGSHIN**	**DONGSUH**
SAMSUNG SAMSUNG ELECTRO-MECHANICS	**KOEN** KOREA SOUTH-EAST POWER CO.	**HTS** Hansu Technical Service Ltd.	Youngam Wind Power Co., Ltd.	**KOGAS** KOREA GAS CORPORATION
KOMIPO KOREA MIDLAND POWER CO.,LTD.	**HYOSUNG** HEAVY INDUSTRIES	**posco** ICT		

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