CIMON
SYSTEMS

CIMON-TOUCH

Total Solution for Industrial Automation

CIMON–TOUCH features

- Provides strong durability using the mobile CPU in the industrial sites.
- CIMON HMI supports all user requirements from convenient screen making to implementation of advanced functions.
- Implements advanced touch mechanism using Windows XP Embedded.
- Supports logging huge datas on mass storage
- Supports easy communication setup with upper and lower systems using various interfaces.

KDT
SYSTEMS

CIMON-TOUCH

Total Solution for Industrial Automation

Features

■ Fan-less cooling system

■ Implements advanced touch mechanism using Windows XP Embedded.

■ Enables to make various monitoring pages using the integrated CIMON-HMI.
  − Provides the library and wizard
  − Supports various external OCX components
  − Supports BMP, GIF, and TIF format pictures, as well as Auto CAD images.
  − Supports customized gradation, texture, and pattern.

■ Linkage with the upper−level systems and communication with the lower controls can be configured conveniently.

■ One time purchase of HMI and PC saves the cost.

■ Sufficient communication
  − RS 232C/422/485 : 4ch(max)
  − Ethernet : 2 ch (max)

CIMON−HMI meets the Touch−Panel that is integrated with the best network technology, which gives a top priority to the convenience of developers and users.

Functions of CIMON-TOUCH

Specification of CIMON-TOUCH

Application of CIMON-TOUCH

Functions of CIMON-TOUCH

CIMON-HMI function

Function

- Supports powerful internal script with a Visual Basic style
- Provides various graphic libraries
- Provides diverse network solutions
- Easy to make reports
- Open architecture software based on the OLE automation
- Supports zooming/panning of the online monitoring screen.
- Data compatibility with the universal purpose DBMS
- Simultaneous connection to PLC and various measurement/control equipments

Implementing advanced function with an integrated CIMON−HMI

Real−time database management function
Provides easy management based on the layout and functions similar to Windows Explorer. Data compatibility with Excel allows for convenient editing. Additionally, the usages of tag variables enable online database editing.

Alarm function
Users can select various output methods at the time of an alarm occurrence such as alarm summary screen, file, print−out, voice, and short message. users can run specific operation when an alarm is generated or released.
(Up to 32,767 alarms can be saved online.)

Trend analysis function
Historical and real−time trend can be analyzed, and various trends can be selected such as Y−T, Multiple, and S−T trend. For the historical trend analysis, the time interval value can be increased, shortened, or filtered at the time of analysis.

Reporting function
The report can be saved in a file or printed out at every time when an event occurs or at the regular/appointed time point, using Microsoft Office Word or Excel forms. When used with a VB script, any type of report intended by users can be printed out.

Data logging function
The data can be logged at the regular/appointed time point or event occurrence, which can be saved in a file or printed out. The logged screen can be monitored through the trend function, or the logged data can be read using with the VB script.

Security function
Only users who are authenticated by the login function can access to the system, using the function of user registration based on 1 ~ 100 ratings. Additionally, the user history can be saved, and specific operation can be executed at the time of login and logout.

Schedule management function
Different system management can be configured by day, holiday, or specific date. Monitoring/Control can be performed smoothly by the designated schedule.
(Holidays can be set by the user.)

Network function
Various types of network operation including standalone, peer−to−peer, 1 server + n clients, and n servers and n clients can be supported. Also, connection to the other upper/lower level CIMON (TOUCH/HMI) can be established using the CIMON−Net protocol.

Monitoring function
Users can develop the system more conveniently using the object−oriented graphic tools. Various clipboards and libraries are provided, and the zoom in/out function is available in the editing and execution mode, and advanced graphic presentation can be provided using the integrated animation editing function and gradation function.

Macro function support
The powerful script language with a Visual Basic style is supported, which can be used any place inside CIMON HMI, together with 500 internal functions provided by CIMON HMI.

Communication function
Communication with various controllers can be established like the most PLCs.
Various networks are supported, and communication can also be established with the communication and DDC equipment like OPC and Modbus.
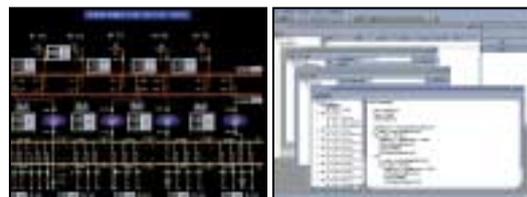
Functions of CIMON-TOUCH

▌PC/Laptop function

▌Supports PLC loader program installation, and download/upload
Supports installation of office program and user application program
File-system damage protection ▌

■ Supports installation of various programs

CIMON TOUCH can be used as a laptop to preserve the site, since the application program of various equipments can be installed. Users can experience the more advanced touch panel functions since the mobile CPU, which is more suitable for the industrial site, and the mass storage are used.

■ EWF : Enhanced Write Filter

C: disk drive volume is safeguarded by EWF function.
This function protects the disk volume from damage of file system.

■ AMI Rescue

Utility 'Rescue' was installed for resetting disk image to factory default.

Functions of Touch Panel

- **Reliable fan-less type**
- **Based on Windows XP Embedded**
- **Convenient project editing and transmission**
- **Implementation of the advanced system**

Panel mounting type provides more convenient functions than the current touch panels

■ Reliable fan less type

No heat emission is required since Touch Panel has no fan installed inside. Therefore, the costs related with fan and cooler maintenance can be saved.

■ Based on Windows XP Embedded

Because Windows OS is installed instead of the proprietary OS adopted by the current touch panels, all functions provided by Windows XP Embedded.

■ Convenient project editing and transmission

The CIMON-HMI project file, which is used as a graphic tool, can be moved/transferred through the USB port or network. When the keyboard/mouse is connected, the project file can be edited without limitation on CIMON-TOUCH.
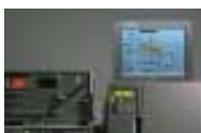
■ Implementation of the advanced system

The advanced system can be configured such as data operation, pre-processing manipulation, data storage, and interface with the upper-level system, not to mention of the simple monitoring and manipulation function.

Common specification

12.1 inch

15 inch

Item	T12CS	T12CH	T15CS	T15CH	T15CX	T15CP
Touch Screen	1024 x 768(5-Wire Resistive)					
CPU	VIA Eden ESP 10000 1GHz					
RAM	DDR 512MB					
Storage	CF2GB	HDD40GB	CF2GB	HDD40GB		
Graphic Chip	UniChrome Pro IGP integrated in VIA CN400 VT8625					
Display	12.1" TFT LCD CRT Output(15P DSUB)		15" TFT LCD CRT Output(15P DSUB)			
Interface / Serial	RS 232C/422/485 1 Port RS232 1 Port			RS232/422/485 1 Port RS232C 3 Port		
Interface / Ethernet	10 Base-T/100 Base-TX 1 Port			10 Base-T/100 Base-TX 2 Port		
Interface / Parallel	None			1 Port		
Interface / PS/2	Keyboard & Mouse					
Interface / USB	USB V2.0 4 Port					
Interface / Audio	1 Port					
CD-ROM	None					Yes
PCI Slot	None					1 Slot
Operating System	Windows XP Embedded					
Utility Program	EWF / Rescue					
Power	100~240V AC					

Dimensions

Panel cut

Unit : mm

12.1 inch - **T12CS/T12CH**
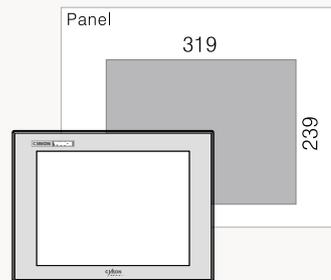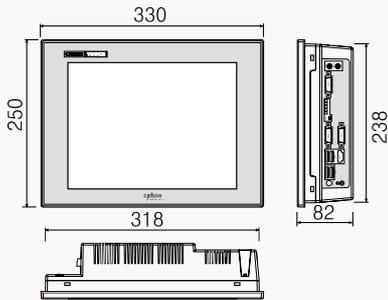
330
250
318
238
82

Panel
319
239

15 inch - **T15CS/T15CH/T15CX**

395
310
381
296
89

Panel
382
297

15 inch PCI type - **T15CP**

395
310
381
296
143

Panel
382
297

System operation

Integrated operation management system

Supports site management/database
buildup at the upper level system

Remote site monitoring
on the Internet

Outputs alarms/reports

Notifies the responsible staff
when an event occurs.

Site data logging/Equipment
monitoring and controlling
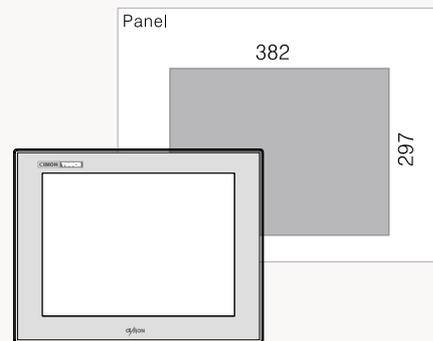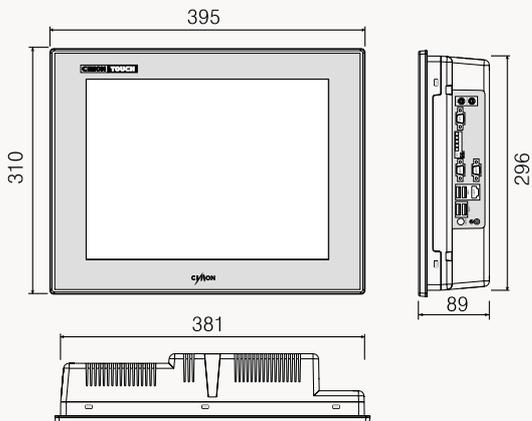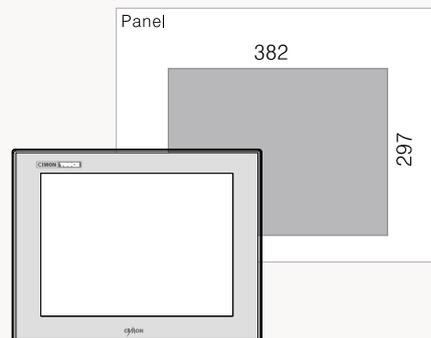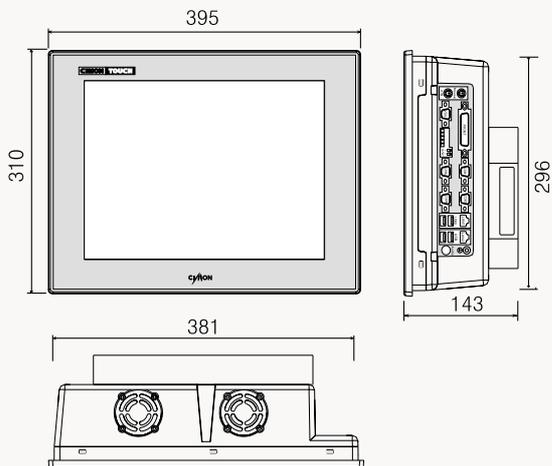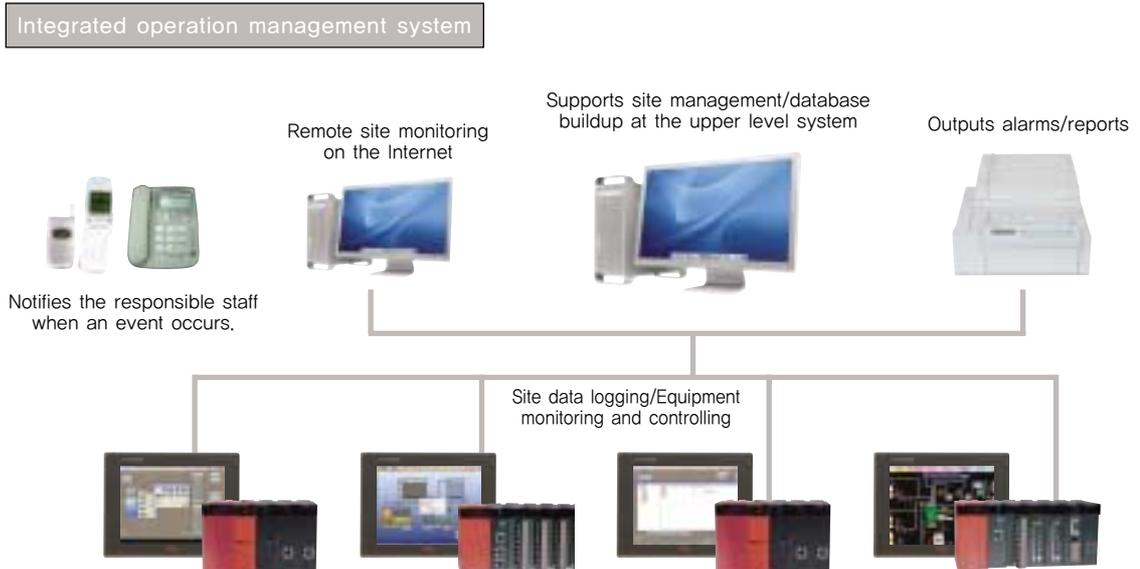
Equipment Mounting
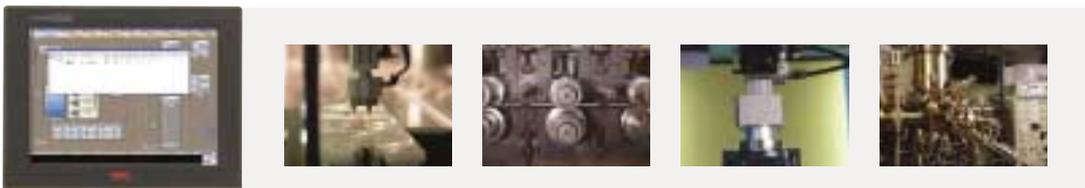
System Interface

■ External Interface Layout

· T12CS / T12CH / T15CS / T15CH

Mouse
K/B
VGA
TXD+ GND RXD-
TXD- RXD+
1 2
S/W
COM1
COM2
LAN1
USB
USB
Audio

· T15CX / T15CP

Mouse
K/B
VGA
PRINT
TXD+ GND RXD-
TXD- RXD+
1 2
S/W
COM1
COM2
COM3
COM4
LAN1
USB
LAN2
USB
Audio
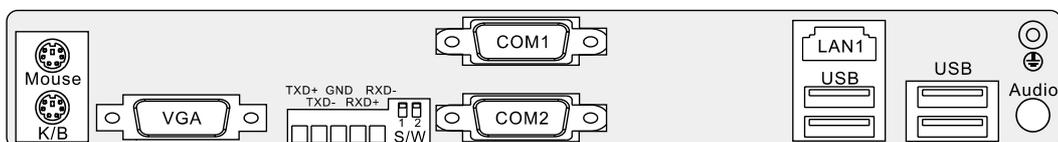
Examples of application

Car manufacturing line

parts manufacturing line

water processing system

broadcasting equipment

stage control line

and power monitoring line

Major references

Customer	Plant Description
Kia Motors	JB/VQ Body Shop
Kia Motors	Sorento/MG Body Shop
Ssangyong Motors	A-100&D100 Body&Ass'y Shop
Hyundai Motors	Namyang Pilot Body #1, #2 Line
LG Electronics	PDP Aging Line
LGChemical	CMP Pilot Line
KT&G	Tobacco Packing Facility
POSCO	The Mote of gathering facilities Monitoring
Coal fired plants	Nuclear Power Generation Facilities
Idea Bank	Mushroom Cultivation Machine
Mando	Pack P Line
Doosan DND	Vacuum equipment of the semiconductor manufacturing line
Aekyung	The Progress of production monitoring line
Hankook Tire	Tire extruding machine
Hankook Electric	A heat treatment equipments
Eastern Korea	Foaming Instruments

KDT Systems Co., Ltd.

Since first known by the internally developed CIMON-HMI software,
KDT Systems was exerting its best efforts to provide the proprietary technology in the automation area for the customers.
As a result, we have continuously developed various automation controllers and software with enhanced performance and stability.
We are proud that these products have decisively contributed to overwhelming market positioning of the customers.
KDT Systems is committed to excellence in the industry automation and aims at providing the products for more useful and stabilized automation system through development of the state-of-art technology. Our ultimate goal is to provide the total solution for the industry automation.

Product line

· CIMON-HMI: HMI/SCADA software
· CIMON-PLC: Highly functional PLC
· CIMON-RTU: RTU for remote site measurement/control
· CIMON-PPC: Touch panel type PC
· CIMON-IPC: High performance industrial PC
· CIMON-PAD: Wireless data communication terminal
· CIMON-TOUCH: Windows-based HMI device
· CIMON-Xpanel : Windows CE Based new Touch

Fields of business

· Various automated water treatment systems (Water purification/Waste water treatment system)
· Automation of all assembly industries including automobile industry
· Automation of electric power system (Power generation/transmission/distribution)
· Monitoring/control of the special equipments such as semiconductor equipment and incinerator.
· Monitoring/control of all industrial equipments such as BAS, automated warehouse, and parking facility

Running environment

· OS	Windows 98/Me/2000/XP
· Computer	Pentium or faster CPU, IBM compatible
· Memory	64MB or more is recommended
· HDD	300MB or more is recommended
· Graphic card	VGA, SVGA, XGA
· Others	Mouse, touch panel

⚠ **Safety Precautions** For proper usage of the products described in this brochure, make sure to read the Product Manual before using the product.

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