

Human-Machine Interface Software

Interact's modular software design delivers a full range of HMI solutions for all of your plant floor machine control needs. Interact lets you start with push-button panel replacement and then allows you to expand with trending, recipes, reporting and networking.

Interact has a complete family of application modules. You buy only those modules you need for your current application, knowing that Interact can easily expand to meet your future needs as well.

As part of CTC's MachineShop™ Development Suite, Interact can easily be integrated with MachineLogic™ PC-Based Control software for a complete machine control solution.

Interact Has the Best Features of Windows and DOS

Interact is also truly unique because it gives you the best features of both Windows and DOS. You develop your application in Windows with Interact's powerful integrated development environment, MachineShop™. For run-time, Interact uses a DOS multi-tasking kernel to keep response times fast and hardware platform costs low.

Plus, Interact can run on any PC or on CTC's PowerStation line of flat-panel workstations. With over 50 device drivers, Interact can work with all major brands of control equipment.

Interact Lets Information Flow throughout your Plant

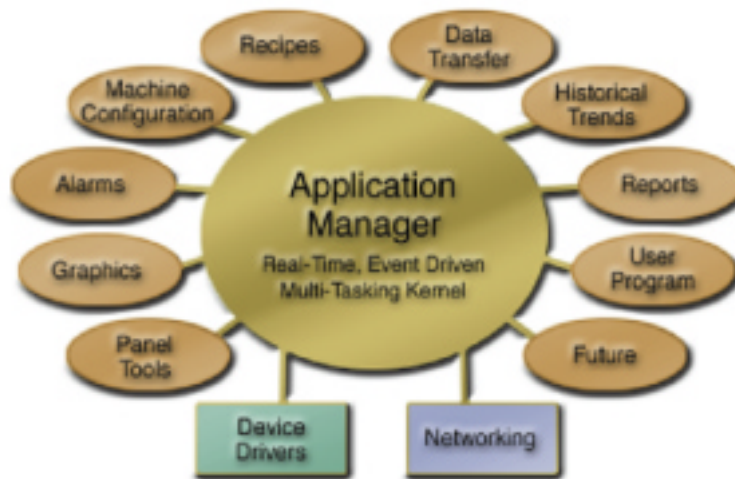
Managing information flow is critical in today's manufacturing environment. Not only do you want to be able to network workstations on the factory floor but you also want to send this valuable data to other areas such as supervisory stations or MIS departments for analysis.

Interact is the best solution because it covers your need for high speed response times on the plant floor, plus its open architecture design lets you share plant floor data throughout your organization. It's a single solution that offers features to meet the needs of MIS, your Supervisor and SCADA stations, and the plant floor.

Interact HMI Software Modules

Interact is a feature-rich software package that can be tailored to meet the needs of any HMI project. With its modular design (see diagram below), Interact lets you build an application by selecting from a complete family of software modules, ranging from 3-D panel tools, to trending, networking and machine configuration. With Interact, you buy only those modules you need for your current application knowing that Interact can easily expand to meet future needs.

Interact also offers you a variety of connectivity options to programmable controllers and intelligent control equipment. Communication Device Drivers for 50+ and Remote I/O PLC connections are part of the standard product, including several Ethernet and Compumotor motion control drivers.



Core Interact Modules:

Panel ToolKit Module (PTM)

The Panel ToolKit provides a library of over 35 pre-configured 3D panel tools that can be used to construct the touchscreen equivalent of traditional control panels. These “ready-to-use” tools save on development engineering cost and are modeled after hardwired devices, giving operators the consistent look and feel of devices found on the plant floor. Tools include lighted pushbuttons, numeric displays, panel meters, XY plots, and action tools such as Go To / Load Panel. PTM is included with Interact and CTC PowerStations.

Graphics Monitoring Module (GMM)

The Graphics Monitoring Module lets users add graphics displays to the application to make the operator interface as intuitive as possible for operators, thereby decreasing training and support requirements. This module includes 256 color support and free-form graphics, giving designers the flexibility to import a picture of a machine and animate images on the machine to create an application that operators will find easy to use. A CAD-like, object-oriented graphics development environment simplifies the creation of graphical displays. GMM is included with Interact and CTC PowerStations.

Alarm Management Module (AMM)

The Alarm Management Module is a feature rich alarm package that monitors alarm conditions, and allows users to acknowledge and clear alarms from any screen. Operator comments and alarms can be logged along with application parameters. Other features include five levels of alarm priority, user levels that can be assigned to all alarm functions, and color-coded alarm priorities. AMM is included with Interact and CTC PowerStations.

Networking Module (NET)

This Interact Module enables the transfer of multiple applications throughout the manufacturing facility - or in remote locations using off-the-shelf LAN/WAN operating systems. It is a “network aware” architecture that simplifies centralization of applications and/or program files on a network server. NET is included with Interact and CTC PowerStations.

For More Information on HMI & Machine Control Products, Call 1-800-233-3329.



Other Interact Modules:

Recipe Module (RCM)

The Recipe Module (RCM) is designed for batch processing applications. This module creates a library of recipes containing process values, allowing operators to upload, download, modify and store recipes on-line. Other features include a wide range of recipe controls and an automatic recipe activity log.

Machine Configuration Module (MCM)

Machine Configuration Module (MCM) is a valuable Interact option designed to address specific requirements of machine builders and users. With the power of MCM, you have the ability to design, manage and perform efficient manufacturing changeovers. This tool also makes it possible to rapidly develop modular configurations and machine setup functions, allowing you to easily customize products and options to meet your customer's unique requirements.

Data Transfer Module (DTM)

The Data Transfer Module (DTM) provides a high speed gateway to share information between different types of control equipment by exchanging data among multiple drivers. This module allows you to replace expensive networking software and hardware with inexpensive software connections.

Historical Trending Module (HTM)

The Historical Trending Module (HTM) gathers selected data from the machine or process, and allows you to view this data on-line in graphical or spreadsheet format. These data files can also be logged to disk so that they can be analyzed off-line using popular PC packages. Data can be logged on time interval, event or operator input. Advanced features such as data and time search allow for enhanced on-line analysis of logged data.

Report Module (RPM)

The Report Module (RPM) creates free-form reports for any Interact application. These real-time data reports can be previewed on the display screen while in online operation; completed reports can be downloaded to a network or disk for review at a later date. Reports can also be printed in hard copy or ASCII file format.

User Program Module (UPM)

You can add your own software or application-specific features or communication drivers to Interact's architecture through the use of the Software Developers Kit. The UPM is designed to a user-written terminate-and-stay-resident (TSR) program to share data with Interact; the SDK shows users how to write a TSR program that functions as an Interact module or communication driver.

Ordering Information

(See MachineShop section for information about ordering development software.)

Interact DOS Runtime Systems	
Description	Model #
Interact Runtime Core Modules (PTM, GMM, AMM, NET)	INT-5160
Interact Runtime Core Modules + 1 Optional Module	INT-5161
Interact Runtime Core Modules + 2 Optional Modules	INT-5162
Interact Runtime Core Modules + 4 Optional Modules	INT-5164
Interact Runtime Core Modules + All Optional Modules*	INT-516A

* The Interact DDE Server is not included with the All Modules option.