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Think Automation and beyond...

HMI Touchscreens High Performance Series

Intelligently Designed – 15" HMI

Larger, Vivid and Bright

The new HG5G-V 15" HMI touchscreen, positioned as the largest model in the High Performance family, offers more display real estate so applications can readily show extensive information with improved aesthetics and visibility.

- Large display area
- Vivid and engaging graphics
- Industry-leading brightness

Featuring visualization, communication, I/O and control capabilities, this 15" HMI touchscreen is ideal for controlling and connecting to many types of systems, providing superior local visualization and enabling convenient remote access.

TANK CONTROL

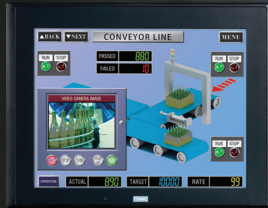WATER FILTRATION

Quality You Can Touch

5.7"   8.4"   10.4"   12.1"   15"

New Enhanced High Performance Series…

All existing models in the High Performance HMI touchscreen family offered in 5.7", 8.4", 10.4" and 12.1" sizes are also upgraded in conjunction with the addition of the 15" model. Users now have options for any size application, with all new models able to directly replace existing models, and featuring these upgraded specs:

Enhanced Display Resolution

TFT-LCD screens display with improving resolution up to 1024 x 768 pixels.

First-Class Brightness

Top-performing brightness, ranging from 600 to 800 cd/m2, to deliver greater visibility even in high-glare locations.

Unmatched Backlight Life

Best-in-class backlight life ratings are 100,000 hours minimum, far exceeding the competition.

Extreme Temperatures

An already extreme operating temperature range has now been extended to cover -20°C to +60°C.

Large User Memory

Increased memory, now at 56MB, provides plenty of room for developing more graphics.

Faster CPU Performance

A CPU 2.3 times faster than the previous generation delivers the performance required for even the most demanding applications.

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Adaptable Hardware

High Performance HMI touchscreens can do far more than just display graphics. These HMIs can also monitor and command local I/O, handle data on an SD card, and connect to many other types of devices—providing a space saving all-in-one automation solution.

Up to 4 Expansion Modules

The HMI can perform direct control with the addition of up to four expansion discrete or analog I/O modules. Programming to sense inputs and drive outputs is accomplished within the HMI software.

SD Card

A standard SD card slot provides local memory expansion for intensive data, audio and video file storage requirements.

USB Port A (USB 2.0)

This port enables convenient connection of USB flash drives or user devices like barcode readers.

USB Port Mini B

Local programming can be performed using this port, or a USB printer can be connected.

Ethernet Port

Using the on-board Ethernet port, the HMI can communicate with other intelligent devices and be configured by the user. When this port is connected to the internet, remote monitoring is enabled worldwide from any browser.

Audio Out Port

The audio out port can be used to locally annunciate alarms or play other sounds. (Exclude 5.7")
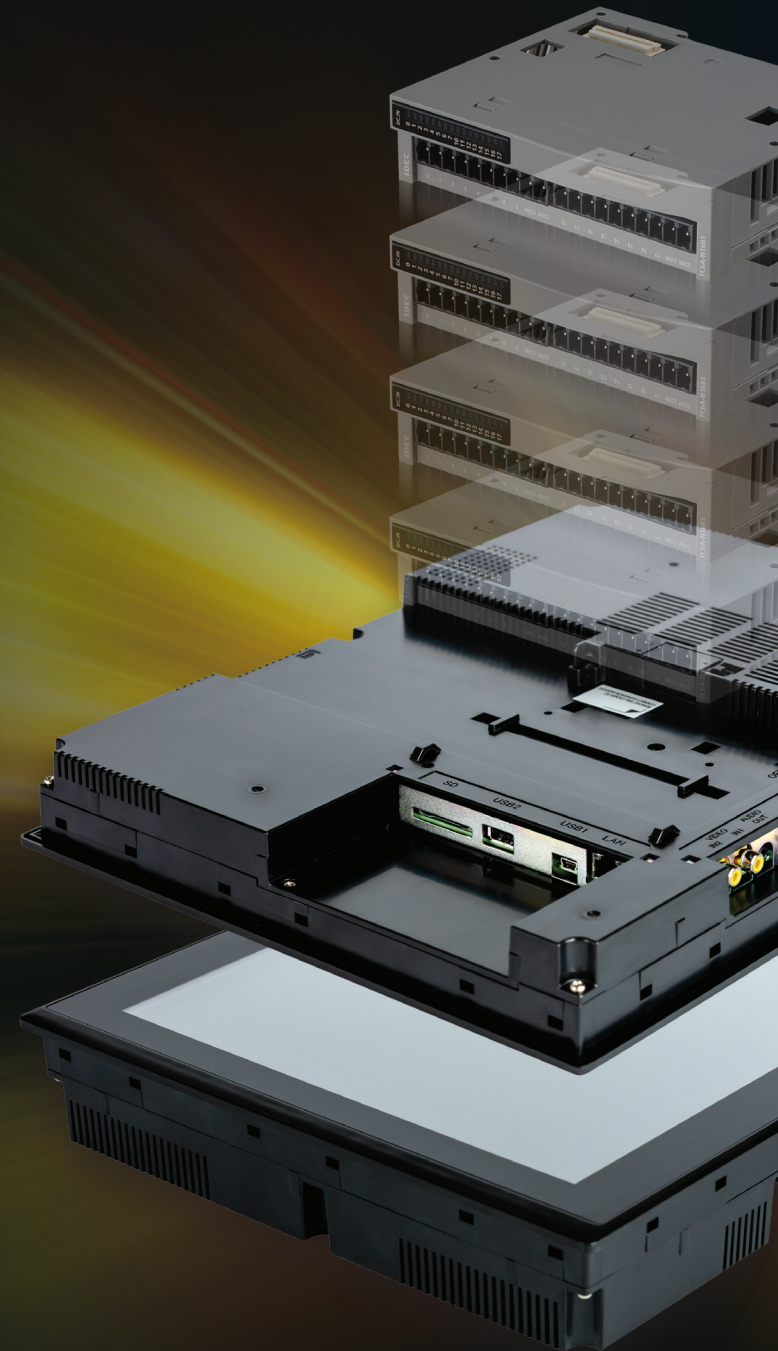
Video In Ports

Video in ports can be connected to local video sources so the HMI can display live video in conjunction with typical HMI screens. (Exclude 5.7")

Two Serial Ports

Serial ports provide a convenient way to communicate directly with legacy equipment or any intelligent devices not offering USB or Ethernet connectivity.

Built To Go Anywhere

These High Performance HMIs carry IP66F/67F, UL61010, Type 4X, 12 and 13 approval ratings, and they are suitable for installation in Class I Division 2 hazardous locations.

Extreme Temperatures

Suitable for use in extreme operating temperature range from -20°C to +60°C.

Long LED backlight life

Having over 100,000 hours of backlight life reduces maintenance work.

Waterproof

IP66 and IP67 approval ratings make these HMIs suitable for wash-down applications.

Oil Resistance

IP66F and IP67F ratings prevents ingress of oil, making these HMIs suitable for use on food machines subject to oil spills.

Industry Leading Warranty

Built for endurance and backed by a three-year warranty.

UV Resistance

An optional protective sheet can be used to protect the HMI screen from ultraviolet rays and dirt. This sheet is UV resistant, and it reduces the impact on the touch panel from ultraviolet rays.

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Industrial Internet of Things

Remote Monitor and Control

Distance isn't an issue with our High Performance HMIs. This function gives you the same access as if you were standing in front of the HMI on the factory floor.

FTP Protocol

IDEC HMIs can be configured as an FTP Client or Server for local or remote transfer of HMI programs and logged data between client and server.

Email and Text Messaging

Up to 255 email templates can be configured to multiple recipients. Dynamic HMI/PLC values can be incorporated into the email body, and logged files can be attached to the email.

iOS and Android Apps

Provide convenient on-the-go system status from smartphones and tablets. Users can upload and download HMI programs; monitor and update HMI status; access logged data and manage files in an SD memory card.
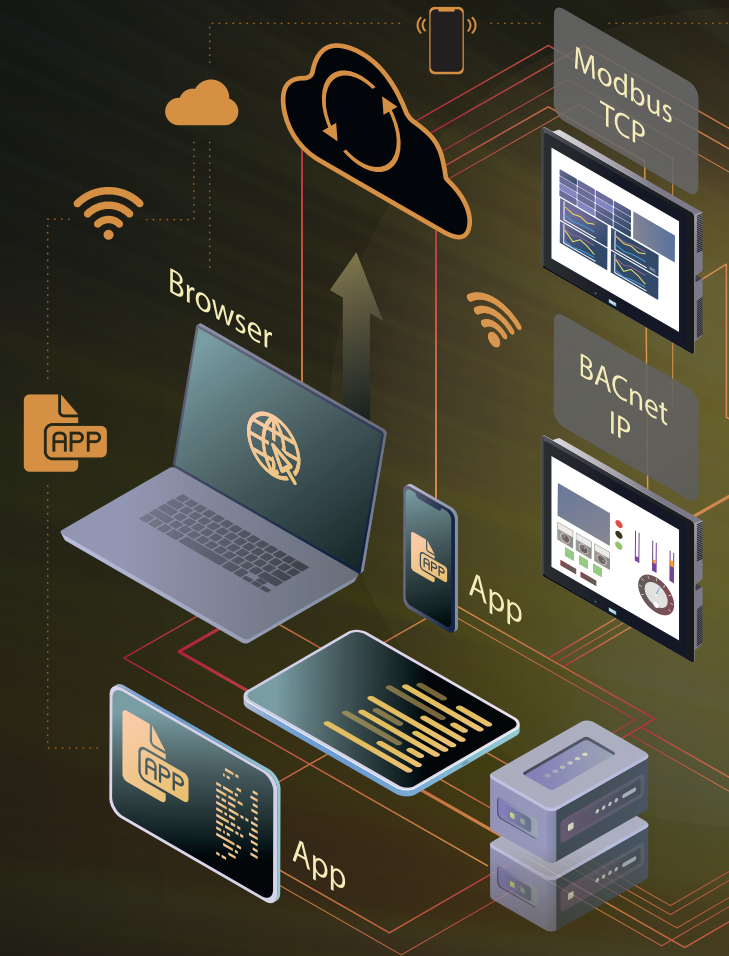
Custom Web Pages

WindO/I-NV4 includes a built-in Web Page Editor, making it simple to create professional and dynamic webpages to monitor and control HMIs, with no HTML programming required.

Real-Time Video Monitoring

Display video images, play movie and audio files, and record video for viewing — all from the touchscreen. (Exclude 5.7")
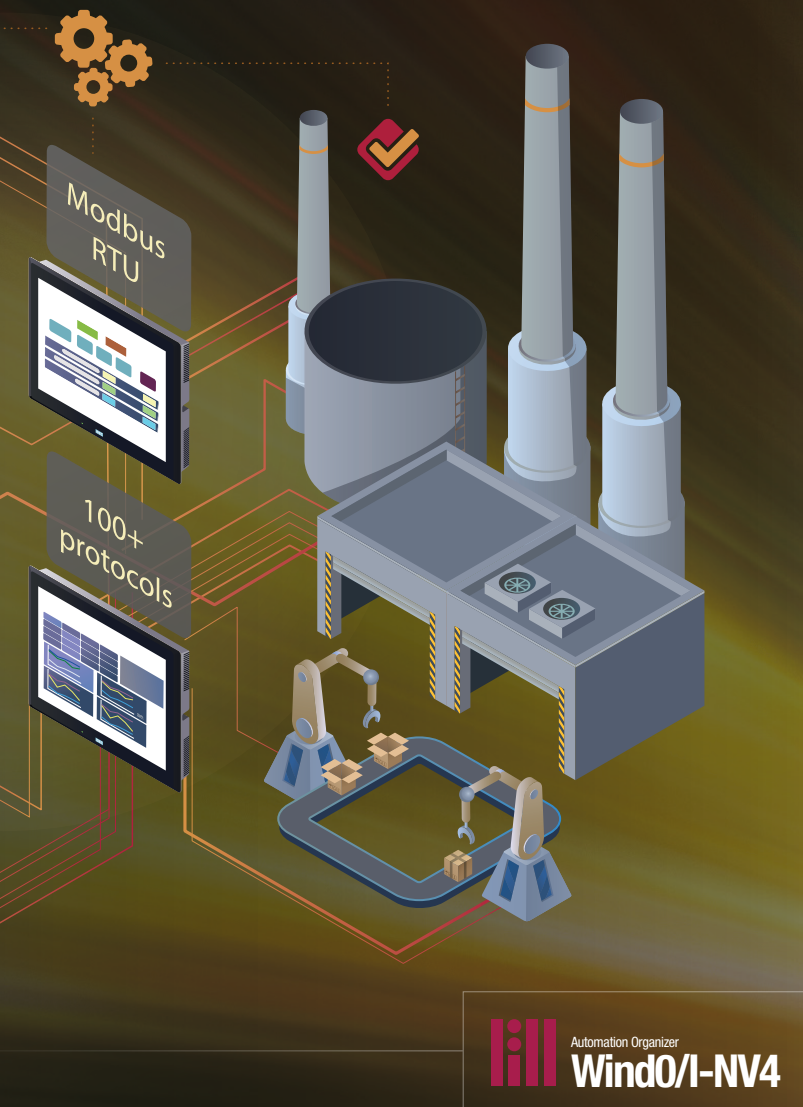
Automation Organizer

Drag and Drop UI

Simple and intuitive drag and drop functionality for objects such as buttons, lamps, charts, etc.

Same Software Across All HMIs

All HMIs are configured using the same software, so users only need to be familiar with one inexpensive software package.

Instant Communications

Multiple Protocols

Support is included for over 100 serial and networking industrial protocols. Up to four protocols can be used simultaneously, allowing the HMI to exchange data with many sources and systems.

BACnet Protocols

This leading building automation control protocol is supported in the native Ethernet port.

Modbus Protocols

Both Modbus RTU Master/Slave and Modbus TCP/IP are supported, and setup is quick and easy.

1:N PLC Communication

Each HMI can communicate with multiple PLCs for greater flexibility, saving time and money.

O/I Link Communication

Network multiple HMIs together with one as a master and up to fifteen additional slaves.

User Communication

The HMI can be configured to build transmit and receive instructions for specialized serial devices like barcode readers.

Modbus RTU

100+ protocols

Automation Organizer
Wind0/I-NV4

Extensive Image Library

Built-in symbol library with over 10,700 images to help you create cutting-edge graphics.

Project Size Conversion

Projects can automatically be converted from one HMI screen size to another within seconds using the same configuration software.

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HMI Selection Guide

	Compact HG1G Series	HG2G 5T Series		High Performance Series				
	4.3"	5.7"		5.7"	8.4"	10.4"	12.1"	15"
Part Number: Black (B) Light Gray (W) Silver (S)	HG1G-4VT22TF-B — HG1G-4VT22TF-S	HG2G-5TN22TF-B HG2G-5TN22TF-W HG2G-5TN22TF-S	HG2G-5TT22TF-B HG2G-5TT22TF-W HG2G-5TT22TF-S	HG2G-V5FT22TF-B HG2G-V5FT22TF-W	HG3G-V8XT22MF-B HG3G-V8XT22MF-W	HG3G-VAXT22MF-B HG3G-VAXT22MF-W	HG4G-VCXT22MF-B	HG5G-VFXT22MF-B
Display Type	Color-TFT	Monochrome	Color-TFT	Color-TFT				
Color Depth	65,536	2	65,536	65,536				
Rated Power Voltage	12 to 24V DC	12 to 24V DC		24V DC				
Resolution	480 x 272 Pixels	320 x 240 Pixels		640 x 480 Pixels		1024 x 768 Pixels		
Brightness (cd/m²)	800	1100	500	800		700	600	650
Backlight Life	70,000 hours min.	100,000 hours min.		100,000 hours min.				
Operating Temperature	-20°C to +55°C	-20°C to +60°C		-20°C to +60°C				
Storage Temperature	-20°C to +70°C	-20°C to +70°C		-20°C to +70°C				
SD Card Slot	—	—		Yes				
Expansion I/O Module	—	—		Yes				
Serial Ports	1 (RS232, RS485, RS422)	1 (RS232, RS485, RS422)		2 (RS232, RS485, RS422)				
Ethernet Port	RJ-45	RJ-45		RJ-45				
USB Ports	1 Type A/1 MiniB	1 Type A/1 MiniB		1 Type A/1 MiniB				
Video/Audio Out	—	—		—	2 Video Inputs, 1 Audio Out			
Approvals	IP66F/67F, UL508, CSA C22.2 No.142.213 ANSI/ ISA 12.12.01, Type 4X & 13, Class I Div. 2	IP66F, UL508, CSA C22.2 No.142.213 ANSI/ISA 12.12.01, Type 4X & 13, Class I Div. 2		Safety Standards: UL61010-1, UL61010-2-201, UL12.12.01 CSA C22.2 No.61010-1-12 CSA C22.2 No.61010-2-201 CSA C22.2 No.213 IP66F/IP67F, Type 4X, 12, and 13 Class I Div. 2 Ship Classification Standards (pending): ABS, LR, NK, DNV GL				

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