## Application Notes How to Create a New Project

- 1) Launch WindOI NV4 software
- 2) Click the Application Button



3) Select "New" to create a new project





4) Select a Product Series and Click "Next"

roduc <u>t</u> Series:	Type Nu <u>m</u> ber:	Description:
HG4G/3G(Multimedia) HG4G/3G HG2G-5F HG2G-5T HG1G	HG1G-4VT22TF-≭	Small size Operator Interface with Ethernet, USB LCD: WQVGA 65536 Colors Touch Panel: Analog
Installation		

5) Select a Communication Driver. If the HMI is used as a standalone unit, select "Not use" and click "OK" to close the dialog box.

<u>M</u> anufacturer:	IDEC	-	
Communication Driver	IDEC	•	Details:
On an Internation Driver	IDEC System		
OpenNet,MICROSmart,Sma OpenNet,MICROSmart,Sma	Modbus Allan Bradlar	-	(RS232C/485) of the following models
MICRO3,MICRO3C	Mitsubishi Electric		OpenNetController (FC3A)
	OMRON		MICROSmart(FC4A/FC5A/FC6A)
	TOSHIBA MACHINE		SmartAXIS Pro/Lite(FT1A)
	JTEKT	-	



6) Below is the Screen Properties of the Base Screen. Enter a Screen Title and click the "OK" to continue. You will see a base screen 1 as below.

Screen Properties				? <mark>×</mark>
General Options				
<u>S</u> creen Type: <u>N</u> umber:	Base Screen			
<u>T</u> itle: Size <u>W</u> idth: [	Main Menu 480 🜲	Height: 2	72 🔹	
Screen List:	Tala	Course Trace		
INO.	Intie	Screen Type		
			ОК	Cancel

1 Main Menu [Base Screen]	



 To configure the settings in the project, click on "Project Settings" Two ways to select "Project Settings"



 In Project Settings, select the Communication Interface tab. Under Interface Configuration, select Ethernet and enter the <u>HMI IP address and Subnet Mask</u> (the IP address may differ depending on the environment)

Interface Configuration:		Interface Settings	
Interface	Function	Obtain an IP address au	tomatically (DHCP)
SERIAL1(RS232C)	N/A	Use the following IP add	dress:
SERIAL1(RS422/485)	N/A	IP Address:	192 . 168 . 1 . 10
Ethernet	N/A	<u>I</u> Address	
Protocol1	External Device Communication 1	Subnet Mask:	255.255.255.0
Protocol2	N/A	Default Catavan	
Protocol3	N/A	Default Gateway:	0.0.0.0
Protocol4	N/A	Forbid Maintenance Con	mmunication
Protocol5	N/A		
Protocol6	N/A		
Protocol7	N/A	When Protocol is N/A, those	e settings are for Maintenance communication.
USB2(USB-A)	N/A		
USB(USB-B)	N/A		

9) Select the "Communication Driver" tab to configure the PLC communication driver.

External Device Communication 1	Manufacturer:	IDEC
External Device Communication 2 External Device Communication 3	Communication Driver:	OpenNet,MICROSmart,SmartAXIS Pro/Lite(Ethernet)
External Device Communication 4	Connection:	1:N
	External Device	

10) Select the "Communication Driver Network" tab. Under the External Device Communication, click on down arrow to select the External Device Communication #. If the driver that you selected is an Ethernet driver, enter the PLC (Host) IP address under the IP address column.

Click the OK button to close the dialog box.

Home Configuration Online View Format								
Project Alam Data Operado Data Storage Preventive I Log nLog System Schup	E-mail Recipe Global Script	User Accounts Protect						
Project  Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Project Proj	Project Sett	Rase Screen) tings Communication Interface (	Communication Drive Communication	ion Driver Network	Autorun (Comp	atible (Web Server (FTP	Server (External Memo	Tag Editor
🔂 Data Log Settings 🔂 Operation Log Settings	Extern ID	al Device External Device Name	External Device Communication	Communication Driver	Slave Number	IP Address	Port Number	
Gi Data Storage Area Management     Gi Preventive Maintenance Settings     Gi E-mail Settings     Gi Recipe Settings     Gi Recipe Settings	0 1 2 3	1 2 3	Disabled External Device Communication 1 External Device Communication 2 External Device Communication 3 External Device Communication 4				E	



Pro	oject Settings							8 ×
	System (Communi	cation Interface (Com	munication Driver Communicati	on Driver Network	Autorun (Comp	atible (Web Server (FTF	Server External	Memory Device 4
	Settings:							
	External Device ID	External Device Name	External Device Communication	Communication Driver	Slave Number	IP Address	Port Number	
	0		External Device Communication 1	OpenNet,MICROS		192.168.1.5	2101	
	1	1	Disabled					
	2	2	Disabled					_
	3	3	Disabled					=
	4	4	Disabled					

11) Let's place a Numerical Display on a screen. Under Home tab, Select "Numerical Display" and drop it on a screen.



12) Double click on "Numerical Display" to open the Properties of Numerical Display.



- 13) Properties of Numerical Display:
  - (a) Select Display Type



- (b) Select Data Type: Bin16, Bin32, Float32, etc...
- (c) Enter Destination Device: this can be External Device address or HMI internal address
- (d) Click OK to close the Properties of Numerical Display

Display Type — <u>D</u> ecimal	◯ He <u>x</u> adecir	nal			
Data Format		]			
Data <u>T</u> ype:	UBIN16(W)	▪ Di <u>q</u> its:	5 🛖		
Display <u>F</u> lo	ating Point Flo	ating Digits:	1 🦆		
Suppress 2	eros	Do not displ <u>a</u> y	when the value is zero		
Display the	min <u>u</u> s sign	Display the plug	sign		
<u>S</u> ymbol to sho	w when Error occurs:	?(question)	-		
Display Method –					
Display De <u>v</u> ice	Address:	0:D 00000	]		
Use <u>R</u> efere	nce Device Address:				
		L		 ]	

14) Select "Online". Click "Download" and "Project Data" to download the program to the HMI.

	proj
Home Configuration Online View Format	
Download Upload Upload Upload Clear Info. + Clear Monitor Offline	S Setup
Project Data Monitors	Communication
Files to Download Project Data	
Files to Download the project data. running	
🕀 🗁 Base Screens	
🖻 🗁 Popup Screens	
🔚 Project Settings	
🔂 Data Log Settings	
- Departion Log Settings	
📬 Data Storage Area Management	
📲 E-mail Settings	
🔯 Recipe Settings	
- 💁 Global Script	
🐝 User Accounts	
📄 Security Group Settings	
IDEC 7	

15) Click OK to save your project.



- 16) In a Download dialog box:
  - (a) Communication with: MICRO/I
  - (b) Port can be a USB or Ethernet. If you want to download via Ethernet, click "Change" to select "Ethernet"
  - (c) Download Data: Select All for the first time
  - (d) Click "Download"

Download		2 ×
Communication Settings Communication with: Port:	MICRO/I USB	<u>C</u> hange
Download Data All Modified Data Only		
<ul> <li>Download Runtime system</li> <li>Download Standard Font</li> <li>Clear Keep Devices</li> </ul>	n s and <u>O</u> ptional Fonts	s
Download following files to E	External Memory Dev	vice
		Download Cancel
Communication Settings	2	×
Communicate with	vice	
Port OUS <u>B</u> Ethernet		
Time Out (min):	0 🔹	

To download a project over Ethernet, please make sure you have a Cat 5 cable connected between the PC and the HMI. And also, you enter the HMI IP address on the HMI unit before the program is loaded. Under "Target IP Address" dialog box, enter the same HMI IP address by clicking Edit and click OK to download.

Target IP Address				8 ×
<u>T</u> arget List:				
Download to	Set IP Address	Set Subnet Mask	Set Default Gateway	<u>A</u> dd
192.168.1.10	192.168.1.10	255.255.255.0	0.0.0.0	Edit
				IP Address Manager
			ОК	Cancel

To download a project over USB, please make sure a standard USB cable is connected between the PC and the HMI. The USB cable can be purchased from IDEC; the cable part number is **HG9Z-XCM2A**.

If the program is loaded successfully, you would see the Download Complete message as below.



