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DOP eRemote User Manual







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About this Manual...

User Information

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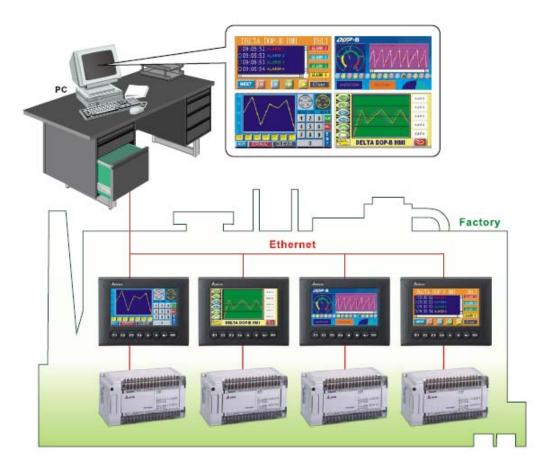
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1.1 eRemote Remote Control Software

eRemote is a PC software used to help the customers view and check the same screen shown on HMI at the production site, and control the manufacturing process via Ethernet. No matter where you are, remote controlling is not an arduous task at all.



1.2 Supported Models

The supported models for eRemote Remote Control Software are listed in the table below.

Series	Model Name	Remark
	DOP-AE57BSTD	
	DOP-AE57GSTD	DOP series Extension Ethernet Module, DOP-EXLNHJ1AE is
DOP-AE Series	DOP-AE57CSTD	required when using eRemote
	DOP-AE80THTD1	with DOP-AE series HMI product.
	DOP-AE10THTD1	
	DOP-BO3E211	
	DOP-B07E415	
DOP-B Series	DOP-B07E515	
	DOP-B08E515	
	DOP-B10E615	

1.3 System Requirement

Below are the system requirements to comply with the operating environment of eRemote:

Hardware / Software	System Requirement
CPU	Pentium 4, 2GHz or greater is recommended
Memory	1GB and above is recommended
Hard Disk	Capacity: 50MB and above
Monitor	Support resolution: 1024×768 or higher full-color display.
Printer	Printer compatible with Windows® 2000 & Windows® XP
Operation System	Windows 2000/WindowsXP/Windows Vista/Windows7



2.1 eRemote Setup

In this chapter, it will introduce general functions of eRemote with Windows. The users can use it to design what they want. Detail information for each function will be discussed in the following chapters.

2.1.1 Software Installation

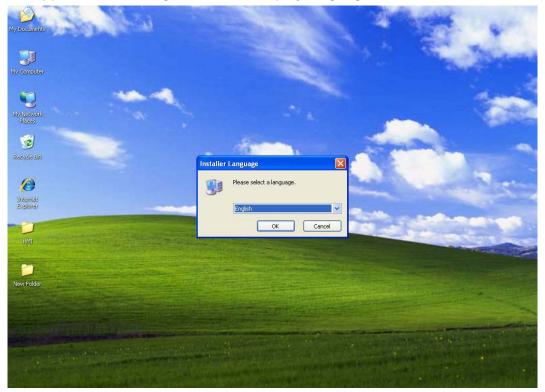
To start the eRemote setup, please refer to the following steps:

Step 1. Please start-up your computer to Windows 2000/WindowsXP system.

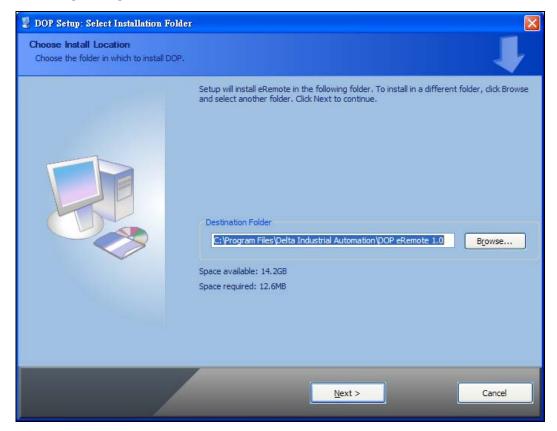


2-2

Step 2. Execute setup.exe from Windows taskbar by clicking "Start" > "Run". After pressing OK, the system will setup automatically and the following dialog box will appear for selecting the desired display language.



Step 3. After pressing OK, the system will setup automatically and the users will get the following dialog box to choose destination location.



To select the default directory

C: \Program Files\Delta Industrial Automation\DOP eRemote 2.xx.xx, click Next> for the next step. Setup will install in the directory indicated in the Destination Directory box at the bottom of the dialog box.

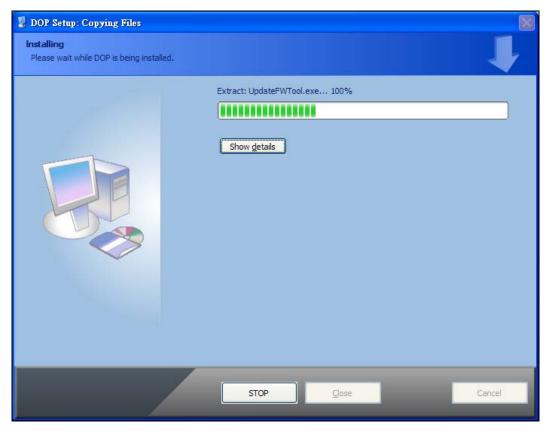
To select a directory other than the default directory, click **Browse**. A list of available directories appears. Highlight the desired directory for the Delta eRemote and click **OK**, then **Next**> for the next step.

If necessary, click < **Back** button to take you back through Setup dialog boxes one by one.

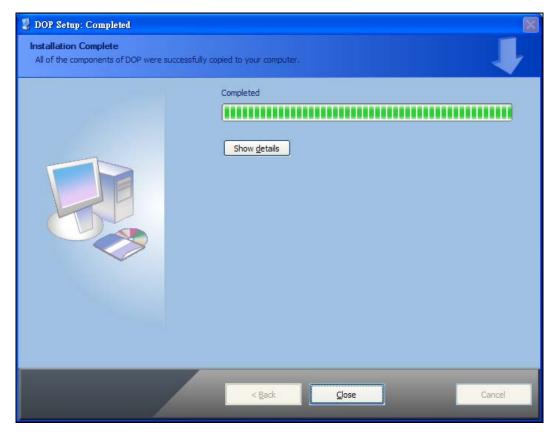
Step 4. After pressing **Next**, the following dialog box will appear and ask the users to select the installation software, i.e. DOP eRemote. Then click **Install** button to start DOP eRemote installation.

💈 DOP Setup: Select Components		
Choose Components Choose which components of DOP should	id be installed.	
	Check the components you war install. Click Install to start the i	nt to install and uncheck the components you don't want to nstallation.
	Select components to install: Space required: 12.6MB	DOP eRemote Main Program Main Program Description Hover your mouse over a component to see its description
	< <u>B</u> ack	<u>I</u> nstall Cancel

Step 5. The system will start DOP eRemote Installation.



Step 6. DOP eRemote has been installed successfully. Press **Close** to finish the installation.



Chapter 3 Working with eRemote

Before using eRemote, the users need to update HMI firmware. Please ensure to read the following instructions fully so that the users could understand how to update HMI firmware correctly.

3.1 Update Firmware

Remember to update the firmware before using eRemote. To select this function, click **Start** > **Programs** > **Delta Industrial Automation** > **HMI** > **DOP eRemote 2.xx.xx** > **Update** Firmware Tool.



After clicking **Update Firmware Tool**, the following dialog box will appear for the users to select the communication interface (the default setting is USB driver). Press **Update** button to update HMI firmware automatically.

Update Firmware Tool v1.2.1			×
USB Driver	Model Name	Version	^
Reinstall	AE80C16	1.08C	
	AE940	1.08C	
~Mode Selection	AE10C16	1.08C	
mode ociection	AE10C100	1.08C	
💽 🔿 USB 📃 💿 Ethernet	AE10C200	1.08C	=
	B10E615	3.00220	_
	B07E415	3.00220	
	B07E515	3.00220	
(?) About Update	B08E515	3.00220	~

3.2 Start eRemote

3-2

To start eRemote, click Start > Programs > Delta Industrial Automation > HMI > DOP eRemote 2.xx.xx > eRemote.



3.3 Connection

After starting eRemote, click **Connection > New** from menu bar to create a new connection.

e e	note	- • ×
: 0	ection Zoom Tool Help	
	lew O	
Q	lose	
	anguage 🔸	
	ixit	

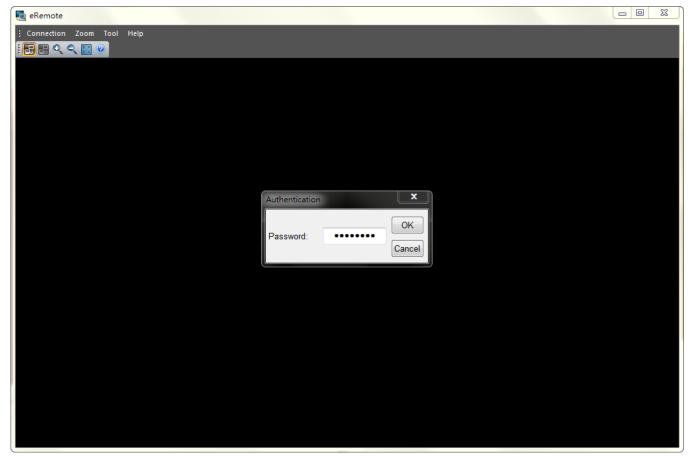
The following **IP Address Setup** dialog box will appear, and the system will search and show all of the connecting HMIs via Etherent automatically. Select the desired HMI and press **OK** button.

	eRemote	_ = ×
: Connection Zoom Help : : :::::::::::::::::::::::::::::::::		
IP Addres	s Setup	
IP Addre	ss 172.16.190.100	: 12348
🗹 Sear	h IP in Ethernet	Update
Name	Model IP	Port
HMI	DOP-AE10T 172.16.190.119 DOP-B10E615 172.16.190.100	12348 12348
<		>
	OK Cancel	

User could type domain name to connect with eRemote.

💀 eRemote					
; Connection Zoom Tool Help					
IP Address Set	qu			x	
				12348	
IP Address	HMI.Domain_1				
Search IF	in Ethernet			Update	
Name	Model	IP address	Port		
	ОК	Cancel			

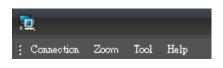
Before connection, the password is required. Please enter the correct password and press **OK** button.

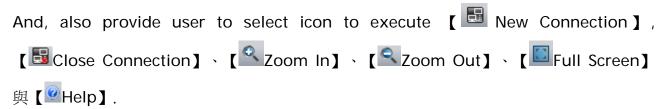


After entering the correct password, the system will start the connection automatically. After the connection is successfully established, the users can monitor and control HMI screens on the computer screen.

3.4 Menu Reference

eRemote provide three options function menu for Connection, Zoom, Tool and Help.





3.4.1 Connection

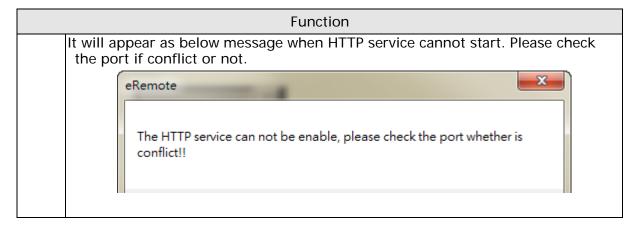
Function		
Create Remote Cor	Create Remote Control Connection	
New	Create a new connection	
Close	Close the current connection	
Language	Select the display language. It supports Traditional Chinese, Simplified Chinese and English.	
Exit	Exit the eRemote	

3.4.2 Zoom

Function		
Determine the view	of the eRemote screen	
Zoom in	Increase the magnification of the screen. The largest magnification available is 300%.	
Zoom out	Reduce the magnification of the screen. The smallest magnification available is 25%.	
	Set the Screen to Full Screen as monitor.	
	Press right key of mouse to select 【Zoom in】 、【Zoom out】 or 【Reset】 to cancel the full screen \circ	
Full Screen	Zoom → Q Zoom in Q Zoom out Full sowen Reset	
Zoom reset	Reset the magnification of the screen to 100%.	

3.4.3 Tool

	Function	
About	print screen	
Print Screen	Print screen function could provide user print currently remote screen.	
	This function could use web page to remote HMI.	
	Step1. Into Tool and select HTTP.	
нттр	Step3. After setting, please start browser and type IP address of PC like <u>http:/172.16.190.54:81</u> 。 User could check your PC IP address at command window, type ipconfig to check current IP address. 蘇統管理員: C:\Windows\system32\cmd.exe Microsoft Windows [版本 6.1.7600] Copyright <c> 2009 Microsoft Corporation. All rights reserved. C: \Users\Tina.Q.Lee\ipconfig Step4. Please type http:/172.16.190.54:81 on browser, if user could see as</c>	
	below screen it means connect successful. Please type password, the default password is 12345678. After typing correct password, press Login, user could use web page to control HMI. Image: Welcome to eRemoteWeb Password Password If type correct IP address of PC, but it still cannot connect, please turn of the proxy of PC and reconnect again.	



3.4.4 Help

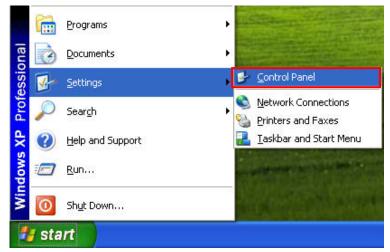
	Function
About eRemote	
About	Show the various items of legal information of eRemote.

Appendix A Testing Example

Before creating testing example, make sure to change the upload and download option (**Options > Configuration**) on DOPSoft first. The default setting of upload and download is via **USB**. If the users need to use **Ethernet**, please change the default setting by referring to **Appendix B**.

A.1 Networking Settings

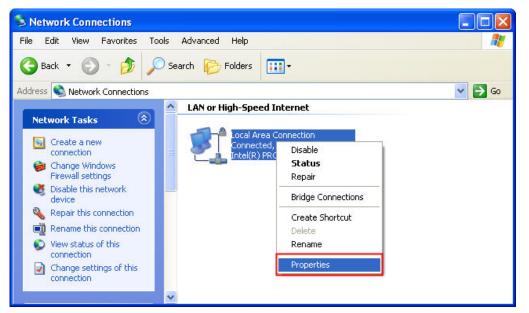
Ensure to observe the following instructions to complete PC networking settings before eRemote operation.



Power on PC and start Windows. Click **Start > Programs**, point to **Control Panel**, and then select **Network Connections**.

👺 Control Panel							
File Edit View Favorites Tools	Help						1
🕝 Back - 🌍 • 🏂 🔎 Se	earch 🜔 Folders 🚺	•					
Address 🚱 Control Panel						*	🔁 Go
Control Panel 🛞	رفي المحمد المح	ware Add or Remov	Administrative Tools	Automatic Updates	BDE Administrator	Date and Time	
See Also	Display Folder Op	tions Fonts	Game Controllers	Intel® Graphics	Internet Options	کی Keyboard	
Help and Support	Mail Mouse	Network Connections	Phone and Modem	Power Options	Printers and Faxes	Regional and Language	
	Scanners and Schedul Cameras Tasks		Sounds and Audio Devices	Speech	System	Taskbar and Start Menu	
	User Accounts Window Firewa		1				

Double-click Network Connections icon, the following windows will appear. Right-click the Local Area Connection icon, and then select Properties from the pop-up menu.



The Local Area Connection Properties dialog box will open. Use General tab to select Internet Protocol (TCP/IP). Then, press Properties button.

🗕 Local	Area Connec	tion Properties	? 🛛
General	Authentication	Advanced	
Connec	t using:		_
B∰ Ir	ntel(R) PR0/100	0 MT Network Con	Configure
This co	nnection uses th	e following items:	
	Client for Micro File and Printer QoS Packet So Internet Protoc	Sharing for Microsof cheduler	t Networks
Descr	nstall	Uninstall	Properties
Tran: wide	smission Control area network pr	Protocol/Internet Pro otocol that provides (onnected networks,	
		tion area when conn connection has limite	
			DK Cancel

The Internet Protocol (TCP/IP) Properties dialog box will open. Choose Use the following IP address and enter the IP address numbers of the PC into the field of IP address and Subnet mask.

Internet Protocol (TCP/IP) P	roperties 🛛 🛛 🛛 🛛
General	
You can get IP settings assigned this capability. Otherwise, you nee the appropriate IP settings. Obtain an IP address autom	
IP address:	172 . 16 . 190 . 1
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	
 Obtain DNS server address Use the following DNS server Preferred DNS server: Alternate DNS server: 	
	Advanced OK Cancel

Then, press **OK** button to finish the settings.

Please note that if the IP address numbers of subnet masks of the PC and HMI are different, HMI may not be displayed in the list when finding node.

A.2 Create Testing Example

Start DOPSoft Software program and click **File > New** or click **New** icon to create a new project. Then, click **Element > Button > Maintained** to create a Maintained element (\$0.0) and click **Element > Input > Numeric Entry** to create a numeric entry element (\$10) on the screen. In this case, 10 inches color B10E615 type DOP series HMI is used.

	DOPSoft - C:\Users\tina.q.lee\Desktop\NewHMI.dps
File	Edit View Element Screen Tools Options Window Help
	🚰 🔜 🖳 🤊 🖤 🐰 🐘 🏙 🛤 📭 🗭 🛔 🚺 100% 🕞 🍳 🤇 🔇 C 🔿 🍖 🏷
18	- Arial - A· A· A · A · A · A · A · B I · U Language1 / 回 回 · + = 三 · = 東 回 直
	🏡 💷 🤤 🕰 🔘 🧰 🖆 🔤 📲 📲 📰 🖺 😞 🛛 0 - Maintained 💿 🔽 🚰 🗐 🚛 🔛
⊿	L 1 - Screen_1
№ □ ✓ ×	
\circ	
8	
A	
A ™ ⊞	
■	\$0.0 Maintained
	\$10 ####

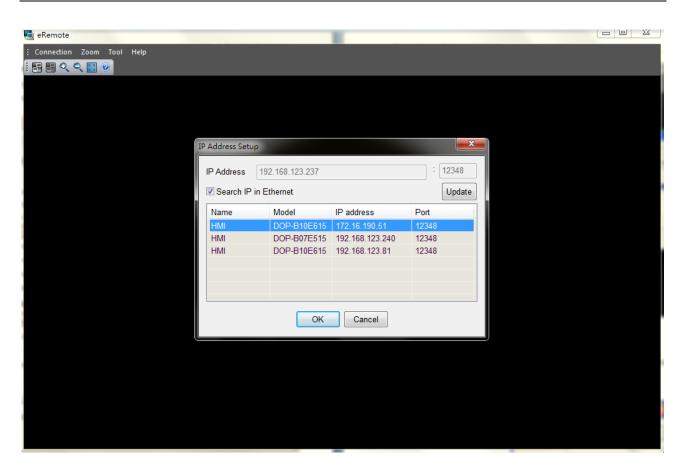


Click **Options** > **Communication Setting** and choose **Ethernet tab** then select LocalHost and complete HMI networking settings and **Enable** Network shown as the figure below. Then, press **OK** button to finish the settings.

Communication Setting				
		Communicat	ion Setting	
COM1	wice LocalHos	t SMTP		
	Localhost		E	
COM2		V Overwrite IP		
COMZ		Obtain an IP address automatic		
		HMI	HMI	
COM3		HMI IP Address	172 . 16 . 190 . 51	
		Subnet Mask	255 . 255 . 255 . 0	
Ethernet		Gateway IP	0.0.0.0	
Luemet		upload/download port	12346	
		Modbus TCP Server Port	502	
	Network (eRer	note/eServer/Ladder Monitoring)		
		📝 Enable		
	Q)	Password	12345678	
		ScanTime	100 (ms)	
		Port	12348	
		Show warning in disconnection		
		Close warning window wh	en the connection is ok	
			· ·	
Comm. Interrupt 3	times t	hen ignore		
			OK Cancel	ר
			OK Cancel	

After **OK** button is pressed, HMI networking is completed. Compile the edited project file at the end of the programming and the edited project file could be transferred to HMI.

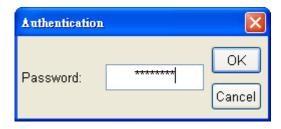
Then, start the eRemote and click **Connection > New** from menu bar to create a new connection. The following **IP Address Setup** dialog box will appear, and the system will search and show all of the connecting HMIs via Etherent automatically. Select the **HMI** and IP Address is **172.16.190.51** then press **OK** button.



After selected HMI, eRemote will asking user to input password to create

connection. The default password is 12345678.

A-6



At this time, the users are able to monitor and control HMI screens on the computer screen.

🔁 eRemote		
Connection Zoom Tool Help		
\$0.0	Maintained	
\$0.0	Maintailleu	
	·	
\$10	0	

Appendix B Upload / Download via Ethernet

B.1 Environment Settings

The default setting of upload and download on DOPSoft is via **USB**. If the users need to use **Ethernet**, please activate DOPSoft and select **Options** > **Environment** to access the configuration options and change the upload and download setting.

<u>O</u> pt	ions <u>W</u> indow <u>H</u> elp		
	Configuration		
	Communication Setting		
	<u>A</u> larm Setup		
	History Buffer Setup		
	Password setting		
	<u>T</u> ag Table		
	Print Typesetting		
	Sound Setting		
	Recipe		
	32 bits recipe		
	<u>P</u> icture Bank		
	<u>T</u> ext Bank		
	Submacro		
	Initial Macro		
	<u>B</u> ackground Macro		
	<u>C</u> lock Macro		
	Environment		

In **Environment** dialog box, change the default setting of upload and download to **Ethernet**. Then, press **OK** to complete the setting.

Environment	
System Path	
C:\Program Files\Delta Ind	ustrial Automation\DOPSoft 1.00.07\ScrEditApp
Output Path	
C:\Program Files\Delta Ind	ustrial Automation\DOPSoft 1.00.07\ScrEditApp\out
Options	
ToolBars/Windows	Language
🗹 Text Bar	English
💌 Bitmap Bar	Upload/Download
Zoom Bar	◯ USB
🗹 Layout Bar	OPC COM Port COM1
Property Table	AutoSave Time Interval
🗹 Output Bar	Auto Open Last File when starting ScrEditor
	Center Drawing Area
	✓ Include Picture Data when uploading
	🗌 Auto Convert Input Address To Tag Name
	Auto reboot after firmware upgrading
Reinstall F	HMI USB Driver Uninstall HMI USB Driver
	OK Cancel

B.2 Communication Setting

If the users choose to use DHCP mode, please into **Options** > **Communication Setting** > **Ethernet** > **LocalHost** to enable **Obtain an IP address automatically**.

ommunication Setting	ç			Đ
		Commu	ication Setting	
COM1	Device LocalHo	SMTP		
COM2 COM3	Localhost	✓ Overwrite IP ✓ Obtain an IP address autom HMI HMI IP Address Subnet Mask	atically HMI 172 . 16 . 190 . 110 255 . 255 . 255 . 0	
Ethernet	Application (e	Gateway IP upload/download port Modbus TCP Server Port Remote/eServer) Zenable	0.0.0 12346 \$02	
		Password Scan Time Port	12345678 100 🛟 (ms) 12348 🛟	
Comm. Interrupt	3 🗘 times	then ignore		OK Cancel

If the users choose to use user-defined IP address, please into **Options** > **Communication Settings** > **Ethernet** > **LocalHost** and set HMI IP Address then ensure that the domain name is the same as the IP address of the personal computer.

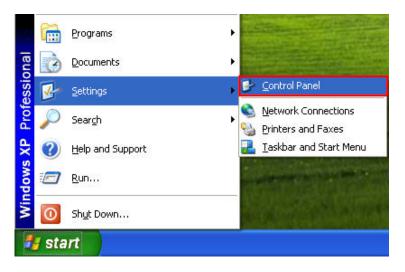
Communication Settin	g			X
		Commu	nication Setting	
COM1	Device LocalHo	st SMTP		
COM2	Localhost	✓ Overwrite IP	.·	
COM3		Obtain an IP address autom HMI HMI IP Address	HMI 172 . 16 . 190 . 11	
Ethernet		Subnet Mask Gateway IP	255 255 255 0 0 . 0 . 0	
		upload/download port Modbus TCP Server Port	12346 \$ 502 \$	
	Application (e	Remote/eServer)		-
	D	✓ Enable Password	12345678	
		Scan Time Port	100 (ms) 12348 🗘	
Comm. Interrupt	3 🛟 times	then ignore		
			OK	Cancel

After Ethernet IP address is set, the users can enter into the system menu to verify if the IP address is written correctly or not.

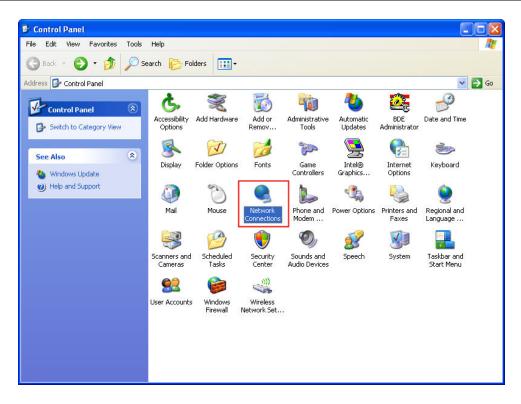




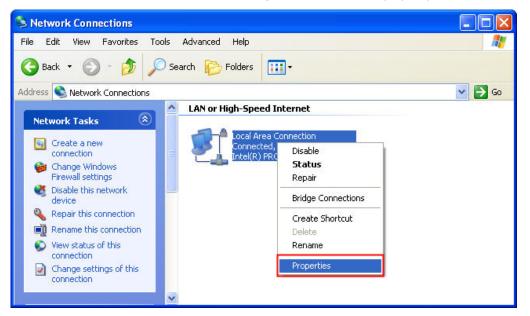
Then, observe the following instructions to complete PC networking settings.



Power on PC and start Windows. Click **Start > Programs**, point to **Control Panel**, and then select **Network Connections**.



Double-click **Network Connections** icon, the following windows will appear. Right-click the **Local Area Connection** icon, and then select **Properties** from the pop-up menu.



The Local Area Connection Properties dialog box will open. Use General tab to select Internet Protocol (TCP/IP). Then, press Properties button.

🕹 Local Area Connection Properties	? 🔀
General Authentication Advanced	
Connect using:	
Intel(R) PRO/1000 MT Network Con	nfigure
This connection uses the following items:	
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks QoS Packet Scheduler Internet Protocol (TCP/IP) 	
	perties
Description Transmission Control Protocol/Internet Protocol. The wide area network protocol that provides communica across diverse interconnected networks.	
 Show icon in notification area when connected Notify me when this connection has limited or no cor 	nectivity
ОК	Cancel

The Internet Protocol (TCP/IP) Properties dialog box will open. Choose Use the following IP address and enter the IP address numbers of the PC into the field of IP address and Subnet mask.

ternet Protocol (TCP/IP) Pr	operties ?
General	
IP address:	172 . 16 . 190 . 1
Subnet mask:	255 . 255 . 255 . Q
Default gateway:	
 Obtain DNS server address Use the following DNS server Preferred DNS server: Alternate DNS server: 	
	Advanced

Then, press **OK** button to finish the settings.

Please note that if the IP address numbers of subnet masks of the PC and HMI are different, HMI may not be displayed in the list when finding node.

B.3 Compile and Upload / Download All Data

After completing PC networking settings, compile the editing program immediately. When compile operation is performed successfully, choose **Upload all Data** or **Download all Data** next.

<u>T</u> oo	ls <u>O</u> ptions <u>W</u> indow	<u>H</u> elp			
	Compile	Ctrl+F7			
<u>₩</u>	Rebuild All				
-	Download All Data	Ctrl+F8			
Upload all Data					
Q	Download Screen	Ctrl+F9			
	Upload recipe				
	Download Recipe				
	Download Logic Data				
	Upload Logic Data				
.	On-line Simulation	Ctrl+F4			
	Off Line Simulation	Ctrl+F5			
	Edit Logic Data				
	Update <u>F</u> irmware				
	Get Firmware Information				
	Reset HMI				
<u>T</u> ool	ls <u>O</u> ptions <u>W</u> indow	<u>H</u> elp			
<u>T</u> ool	ls <u>Options W</u> indow Compile	Help Ctrl+F7			
1000					
	Compile				
	Compile Rebuild All	Ctrl+F7			
	Compile Rebuild All Download All Data	Ctrl+F7			
	Compile Rebuild All Download All Data Upload all Data	Ctrl+F7 Ctrl+F8			
	Compile Rebuild All Download All Data Upload all Data Download Screen	Ctrl+F7 Ctrl+F8			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe	Ctrl+F7 Ctrl+F8			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe	Ctrl+F7 Ctrl+F8			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe Download Logic Data	Ctrl+F7 Ctrl+F8			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe Download Logic Data Upload Logic Data	Ctrl+F7 Ctrl+F8 Ctrl+F9			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe Download Logic Data Upload Logic Data On-line Simulation	Ctrl+F7 Ctrl+F8 Ctrl+F9 Ctrl+F4			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe Download Logic Data Upload Logic Data On-line Simulation Off Line Simulation	Ctrl+F7 Ctrl+F8 Ctrl+F9 Ctrl+F4			
	Compile Rebuild All Download All Data Upload all Data Download Screen Upload recipe Download Recipe Download Logic Data Upload Logic Data Upload Logic Data On-line Simulation Off Line Simulation Edit Logic Data	Ctrl+F7 Ctrl+F8 Ctrl+F9 Ctrl+F4 Ctrl+F5			

Then, the following dialog box will appear.

Destination			
Static IP	0.0.0.0	: 12346 HMI Finding	Refresh
HMI	Model type	Source IP Ad Port	
	Start	Close	

The users can check the box before **Auto Search**, and the system will detect the connecting HMI automatically.

Destination			×
Static IP	0.0.0.0	: 12346	
🗹 Auto Seach			Refresh
НМІ	Model type	Source IP Ad Port	
HMI	DOP-B10E615	172.16.190.100 1234	6
	Start	Close	
	start	Ciose	

When the connecting HMI is found, press Start button, and the system will start to upload or download the screen data via Ethernet immediately.