

Factory Floor Communications

In-Sight® vision systems link to a wider range of factory automation equipment than any other vision system. Whether you connect In-Sight directly to a PLC or robot controller or manage multiple In-Sight vision systems remotely from a networked PC or HMI, Cognex Connect™ assures a seamless reliable communications link between In-Sight and all of your equipment on the factory floor.



This table summarizes the communication capabilities of In-Sight with Cognex Connect:

	Factory Device	Protocol	Protocol Type	Notes
PLCs	B&R	ETHERNET POWERLINK	Industrial Ethernet	
	Mitsubishi PLCs	MC Protocol	Industrial Ethernet	
		CC-Link	Fieldbus	Cognex CC-Link support is certified by CC-Link Partner Association . Requires Fieldbus adapter, available separately.
	Rockwell PLCs	PLC Function Blocks	Preconfigured device commands and attributes	
		EtherNet/IP	Industrial Ethernet	Cognex EtherNet/IP support is certified by ODVA .
		DeviceNet	Fieldbus	Requires Fieldbus adapter, available separately.
	Siemens PLCs	Add-On Profile (AOP)	Preconfigured device commands and attributes	
		PROFINET	Industrial Ethernet	Cognex PROFINET support is certified by PROFIBUS Foundation .
	Other PLC vendors	PROFIBUS	Fieldbus	Requires Fieldbus adapter, available separately.
		MODBUS TCP	Industrial Ethernet	
		Modbus	Serial	
	Robots	ABB, Denso, FANUC, Kuka, Mitsubishi, Motoman & Staubli	Pre-configured drivers and ASCII string commands	Serial / Ethernet
Adept, Epson, IAI, Kawasaki, Nachi, Yamaha, & other Robots		ASCII string commands	Serial / Ethernet	In-Sight Native Mode used for serial and Ethernet communication.
HMI	Windows-based HMI Displays	OPC	Ethernet	In-Sight OPC Server included with every In-Sight system.
		activeX	Ethernet	In-Sight Active X Display Control included with every In-Sight system.
	C#, VB.NET and VB 6.0 applications	In-Sight Software Development Kit (SDK)	Ethernet	In-Sight SDK license purchased separately.
Network Computers	Microsoft Excel and most process control & supervisory software packages	OPC	Ethernet	In-Sight OPC Server included with every In-Sight system.
	PCs and File Servers	Standard TCP/IP Ethernet Protocols (FTP, SFTP, SMTP, Telnet)	Ethernet	
	C#, VB.NET and VB 6.0 applications	In-Sight Software Development Kit (SDK)	Ethernet	In-Sight SDK license purchased separately.

PLC vendors listed in this table are the most common users of the protocol. Check with your PLC vendor to see what protocol they support.