

VISI DNC

A Visual Network for Machine Shop

VISI-DNC is an Ethernet based, machine shop data communication network. In addition to uploading, downloading and drip-feeding NC programs as a full featured DNC system, through the same network backbone, it supports and manages video cameras to monitor the machines, record errors, and send messages. As automation levels increase, unmanned (lights out) manufacturing becomes more common and operators are able to multi task. VISI-DNC offers an effective tool to turn your machine shop into an inter-connected visual factory. Key functions of the system include:

Reliable DNC Network

- Upload, Download and Drip-Feed multiple machines simultaneously.
- No waiting for one CNC communication at a time, no switcher box required.
- Request NC files on the floor directly from the CNC.
- Communicate both ways without touching a computer.
- Supports FTP protocol. For new CNC machines that come with Ethernet connectivity, VISI-DNC can manage new FTP along with old RS232 file transfers on one common software platform.
- Adopting the most reliable network topology, each machine is equipped with one dedicated VISI-Hub that minimizes RS232 cable length and takes full advantage of TCP/IP for error correction to provides ultimate data integrity.
- This wired network, fully insulated from shop noise, insures mission critical connectivity.

Shop Video System

- "A picture is worth a thousand words". VISI-DNC has the option to support video cameras through same network. The video can be streamed back to any PC or hand-held devise (i.e. iPad, iPhone) anywhere.
- 25 hours video recording capability and remote controlled panned cameras.
- Designed with Cloud-Computing-Technology, video data can be sent to "Cloud" (secured remote server) for web or cell phone access for a low monthly fee.

Alarm Message Email

- VISI-Hub offers one pair of I/O to be hard-wired with the machine PLC. They can be used to trigger "bracket video recording" of an event, send email notification, or put the machine into emergency-stop with a mouse click remotely.



LOCAL ETHERNET



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In a VISI-DNC network, the linkage between each CNC machine, camera and Ethernet is controlled with our proprietary VISI-Hub.

VISI-Hub Specifications:

CPU.....	ARM Based MPU Clock 400MHz
Ethernet.....	1 Port Ethernet 100Base/T
Protocol.....	TCP/IP Ver.4
RS232.....	1 Port Dsub 9pin Female Dsub9(F) to Dsub25(M) RS232C Cable is included
USB.....	1 Port USB2.0
Digital IN.....	1 Port (DC12V supply, Current 80mA)
Digital OUT.....	1 Port (Photo Moss Relay, Maximim Current 800mA)
Power.....	DC5V. (AC-DC Adapter is included.)
Software.....	DNC Server is included
Email Function.....	Optional
Video Streaming Function.....	Optional
Dimensions.....	2.7"Lx1.8"Wx1"D



System Requirements:

Operation System.....	Window XP, VISTA, 7, 32bit
Memory.....	Minimum 1GB
Storage.....	Minimum 1GB
CPU.....	Intel Pentium4 or higher Clock 1GHz or higher
Network.....	Ethernet 100Mbps or better
Protocol.....	TCP/IP V4



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