ESrvWin Software Operating Manual

September 5, 2001

Santa Barbara Instrument Group

Introduction

Thank you for buying SBIG's **ESrvWin** Software (**E**thernet Parallel **Serv**er for **Win**dows). This package allows you to talk to your Parallel Port based SBIG Camera (ST-7, ST-8, etc.) on a remote Ethernet Equipped PC through an Ethernet network as though it were connected directly to your PC. This makes it easy to talk to a camera/server in your backyard observatory from the comfort of your house. While the Parallel Ports of most computers can be extended to 50 feet and possibly further, Ethernet cables on networks can be hundreds of feet in length.

What's Required

SBIG's **ESrvWin** software is a 32-Bit Console program that runs under 32 bit Windows, including Windows 95/98, Windows Me, Windows NT and Windows 2000. A typical installation is shown in the figure below:
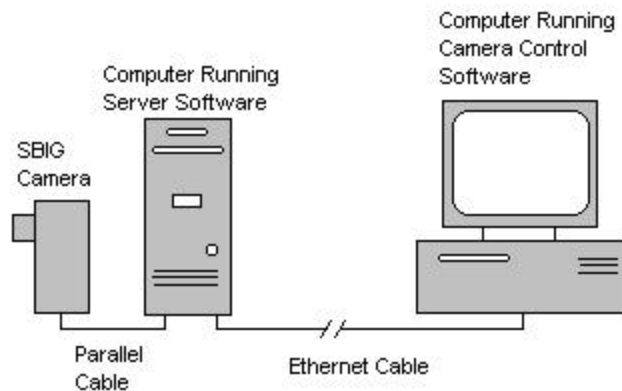
You'll need a computer in the remote site with 32 Bit Windows, an Ethernet card and a Parallel port. That's where you run the **ESrvWin** software. On the Local side, you'll need 32 Bit Windows and an Ethernet connection. That's where you run the CCDOPS software.

Setup

You need to install the **CCDOPS Version 5** and **ESrvWin** software from the floppy disks. Install these programs on both the Remote Server and the Local PC. That way you can run CCDOPS from the Server while you're setting up the Telescope and focusing the camera and then exit CCDOPS and run the **ESrvWin** software for remote use. Installing **CCDOPS** and **ESrvWin** varies depending on the version of Windows you are running:

- Windows NT/ Windows 2000
    - Log in as the Administrator
    - Run the SETUP.EXE program from the Install Disk 1
    - Run the InstDrv.EXE program. Type SBIGUDRV in the **Driver Name** field then hit the **Uninstall** button followed by the **Install** button.

- Windows 95/98/Me
  - Run the SETUP.EXE program from the Install Disk 1

ESrvWin

As mentioned above, the **ESrvWin** program is a 32-Bit Console program. You can run it by double clicking on the icon or you can run it from the DOS prompt. The program has default settings (serving LPT1) that are invoked by double-clicking the icon. From the DOS prompt you can configure the program with the following command line:

C:\>ESRVWIN *LPTPORT*

where *LPTPORT* is 1, 2 or 3 indicating the LPT Port you want served. Again, if you don't provide *LPTPORT* it defaults to LPT1.

In the section below, CCDOPS will need to know the IP address of the remote server. When you run **ESrvWin** it shows you this information as shown below:

```
C:\ >Program Files\SBIG\CCDOPS5\ESRVWIN

ESRVWIN.EXE Parallel Server Ver 1.0...
Usage:ESrvWin [lptPort] (lptPort=1,2 or 3)

Determining LPT1 address...(Addr=0x0378 - OK)
Opening SBIGUDrv driver for LPT1...(OK)
Server Name   :matts866p3
Server Address:192.168.0.24
Waiting for client to link (hit Ctrl-Break to abort)...
```

CCDOPS

Run CCDOPS and use the **Graphics/Comm Setup** item in the **Misc** menu. Select *Ethernet* for the Interface and enter the IP Address as reported by **ESrvWin** then hit the OK button:
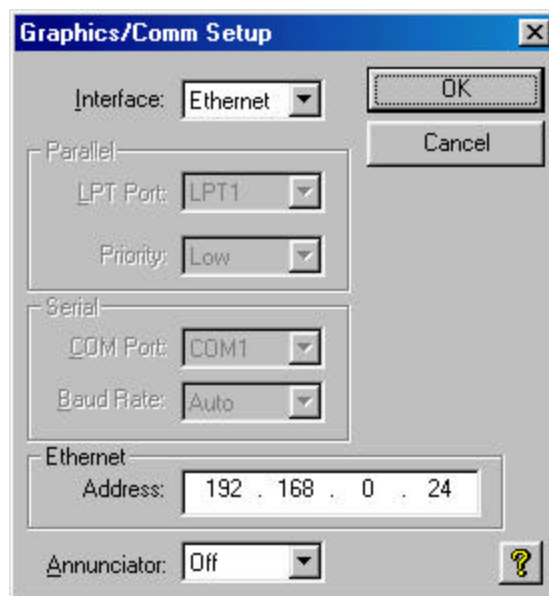
At this point you should be able to use the **Establish Link** command in the **Camera** Menu to establish a link to the camera as reported in the lower-right corner of the CCDOPS window:

| Link:[PixCel237A]ENET | Res:Auto | Temp:21.66°C (0%) | Filter:Clear |

At this point you can use **CCDOPS** just like the camera were attached to your LPT port.

Note that you can run **ESrvWin** and **CCDOPS** on the remote server machine to get this working. Then exit from **CCDOPS** on the remote server and run it on the local machine. If you are not able to establish a link try the following trouble-shooting guide:

- Make sure you are using CCDOPS Version 5 or later (with the Gold Icon, not the Black Icon) or that your third party software has been updated to support SBIG's Universal Driver with Ethernet connectivity.
- Make sure that both machines (remote and local) are plugged into the Ethernet network and have different IP addresses. Use the Ping utility to verify that the two machines can talk to one another.
- Make sure the camera is connected to the remote server and is powered up. Try talking to the camera from CCDOPS on the remote machine without ESrvWin running, configuring CCDOPS to use the LPT port directly rather that the Ethernet port.
- Check the settings you have used for the IP address on the local machine and that **ESrvWin is running** and that **CCDOPS is not running** on the remote machine.