

Setup Network File Sharing between Windows PC and A-ScanPlus

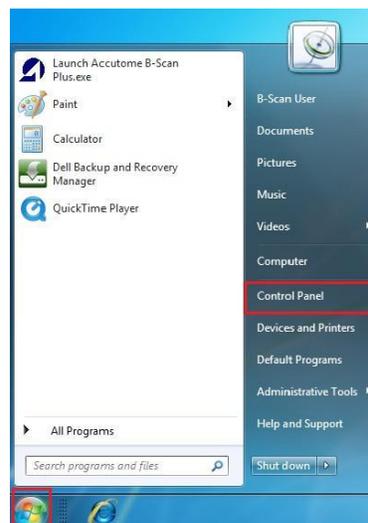
Microsoft Windows operating system (OS) allows the user to share a specific folder to other computers on the same local area network. **Accutome A-Scan Plus** utilizes this feature to transfer exams and printouts to a PC. The following instructions apply only to **Accutome A-Scan Plus software version 4.3.0 or newer** and **Accutome A-Scan Manager version 1.03.00 or newer**.

I. Creating a New Account for File Sharing on Windows 7 or Vista

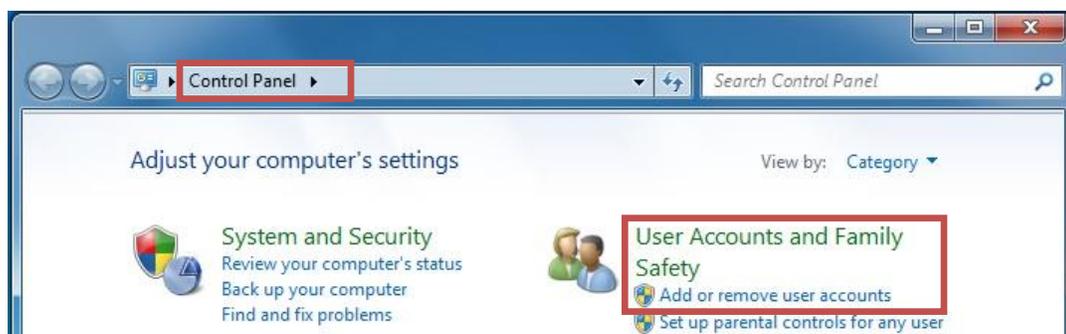
In order to provide remote file accessing and also limit the permissions of the user account which allows remote accessing, we recommended setting up a special account with a “**Standard user**” type of permission for password protected file sharing.

1. Create a new standard user account “ascanshare”:

- a. Click the icon  on the lower left corner of the screen and select “**Control Panel**” on the pop-out menu.



- b. Select “**Add or remove user accounts**” under “**User Accounts and Family Safety**” to enter a new account menu.

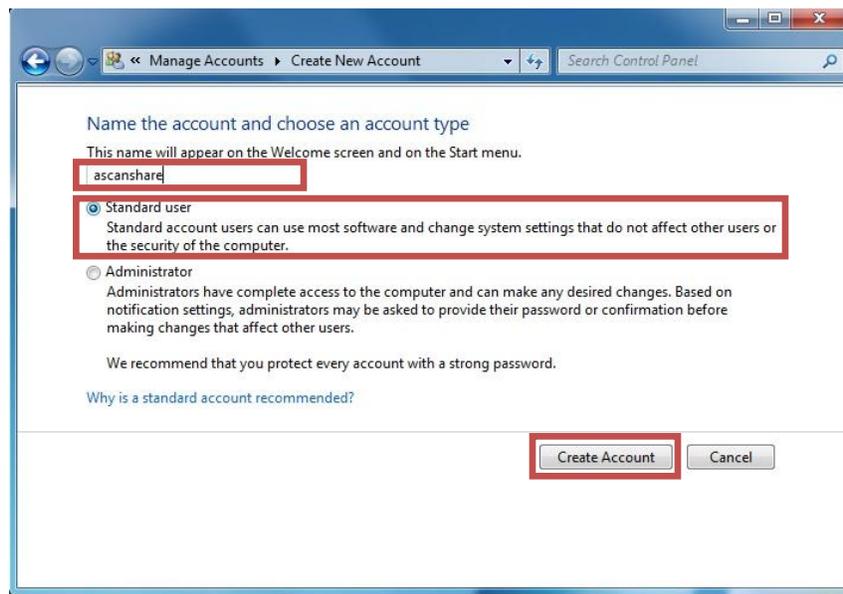


- c. Select “**Create a new account**” in “**Manage Accounts**” menu.

Setup Network File Sharing between Windows PC and A-ScanPlus



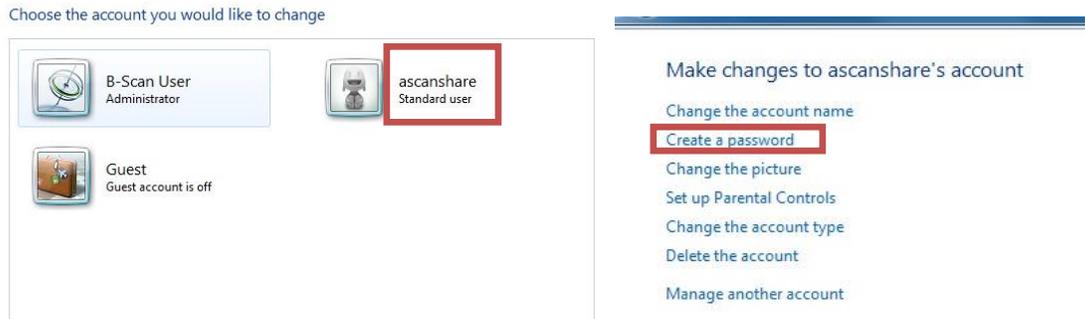
- d. Enter name of the account you'd like to use for the file sharing. In this example, we use the name "ascanshare" as the name of the account. Make sure you select "Standard user" as the account type. Finally, click the "Create Account" button to create the account and return to the "Manage Accounts" menu.



Setup Network File Sharing between Windows PC and A-ScanPlus

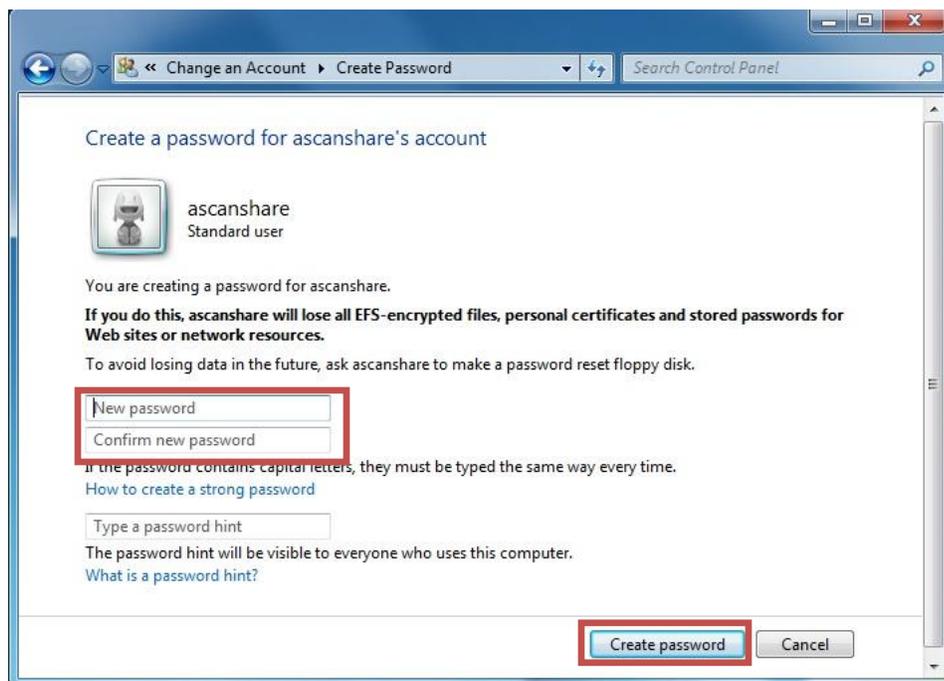
2. Create a password for the account "ascanshare":

- a. The new account will appear in the "Manage Accounts" menu automatically. Double click on the new account and select "Create a password" to add a password for the account.



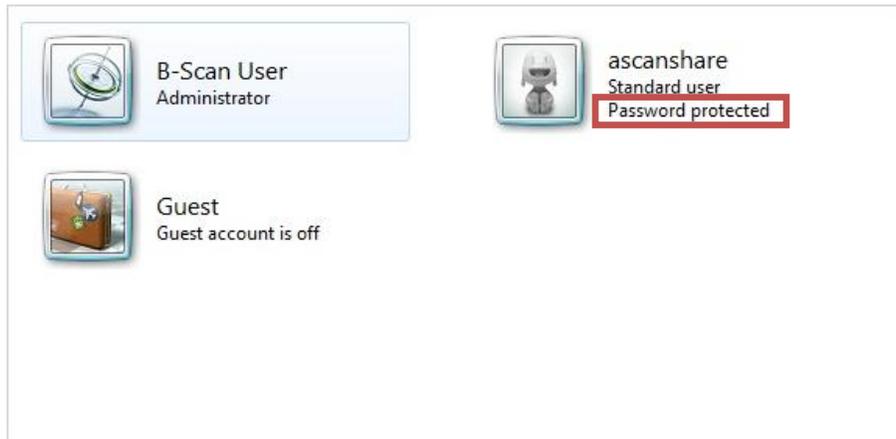
- b. Enter a new password and confirm the new password. Click "Create password" to finish and return to the "Manage Accounts" menu.

NOTE: It is very important that this password be recorded exactly as it is typed (case sensitive) because it will be entered into the A-Scan Plus setup menu for accessing the shared folder later.



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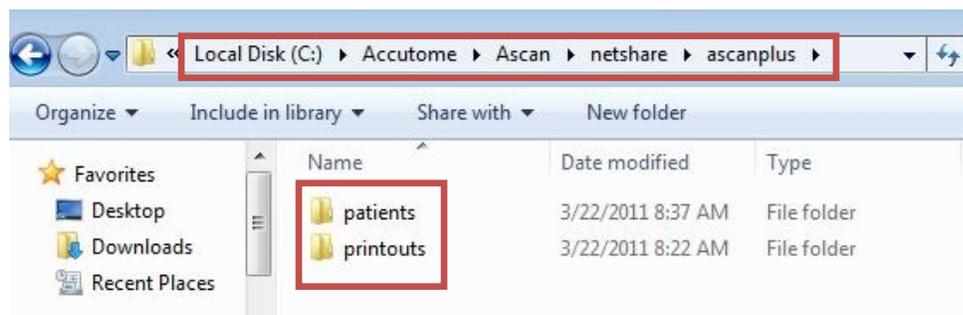
- c. The new account should now show as being **“Password protected”**. Close the **“Manage Accounts”** menu and any other open windows.



II. Sharing Folder for Windows 7 or Vista

We need to select a folder on the PC to share with the **A-Scan Plus**. To reduce possible errors, it is recommended to use a folder which is created by the A-Scan Manager installation package. First, install the **A-Scan Manager version 1.03.00** or newer to the computer using an account with Administrator access. Several folders, such as the default backup folder of **A-Scan Plus** studies and default network sharing folder are created by the installation package. The default network sharing folder called **“netshare”** is in location **“C:\Accutome\Ascan\”**. It has all the sub-folders required by the **A-Scan Plus** for storing studies and printouts. The following instructions will use the **“netshare”** folder and **“ascanshare”** folders as an example. Users can still follow these instructions and set up different accounts and folders.

Note: If you prefer to use a folder other than “netshare”, please make sure you create a sub-folder “ascanplus” and two additional sub-folders “patients” and “printouts” as sub-folders of “ascanplus”.



Setup Network File Sharing between Windows PC and A-ScanPlus

1. Setting up network file sharing and password protection sharing:

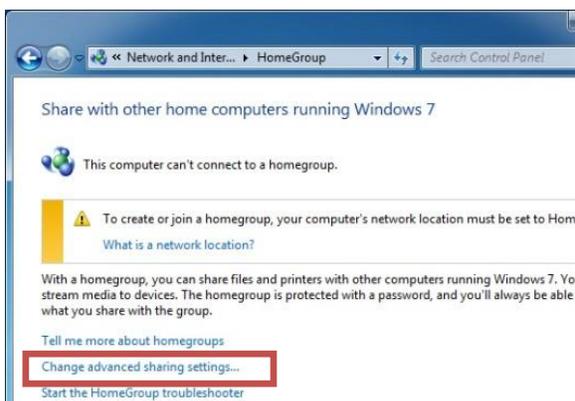
Note: Please follow the path for your OS (Windows 7 or Windows Vista).

- Select "Control Panel" from the Start Menu.
- Click on the highlighted options pictured below.

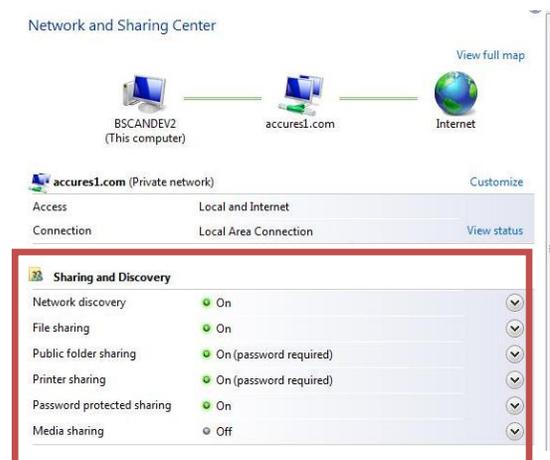
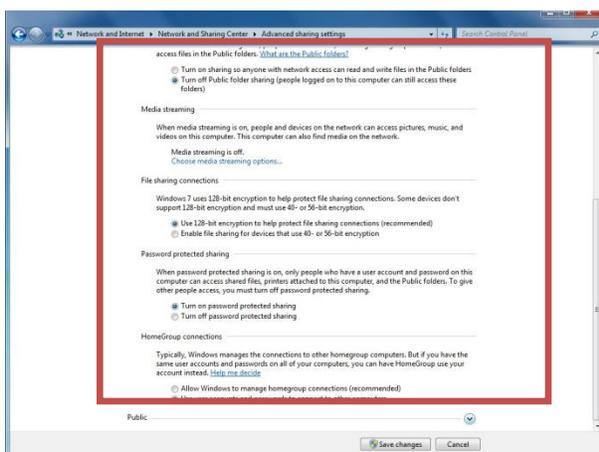
Windows 7



Windows Vista



- Select and turn on "Network discovery", "File sharing", and "Password protected sharing". Save the changes and "Restart" the system.

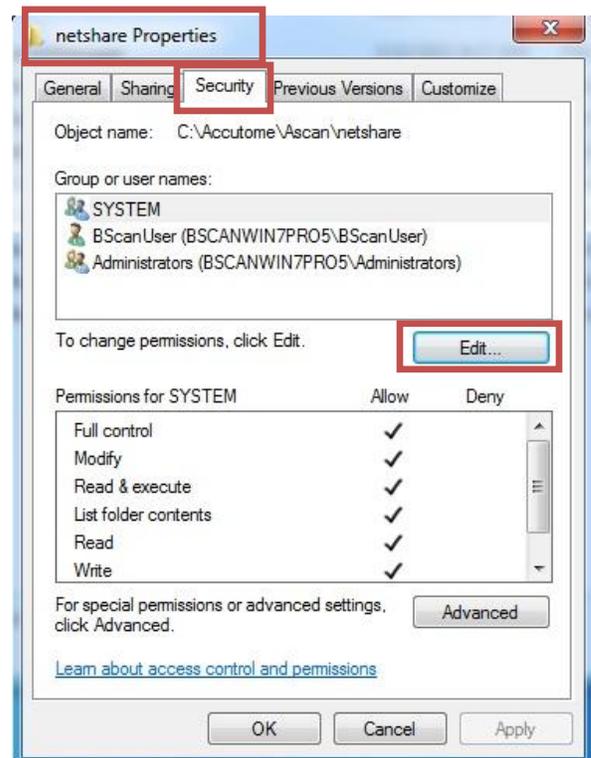
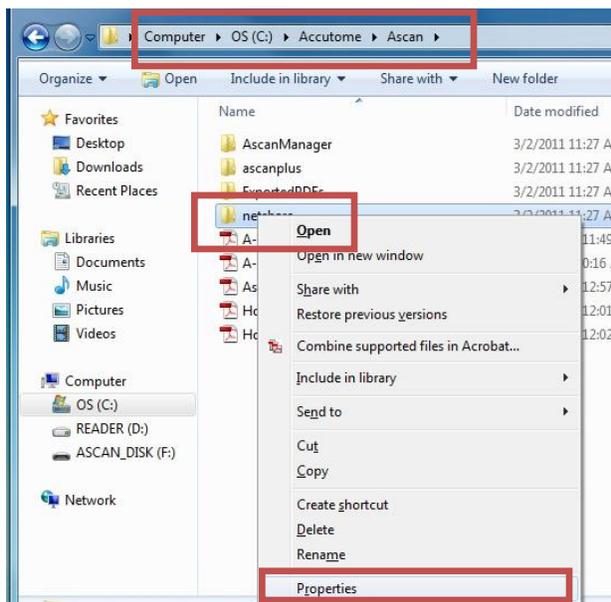


Setup Network File Sharing between Windows PC and A-ScanPlus

Note: If no settings need to be changed, close window and restart the system.

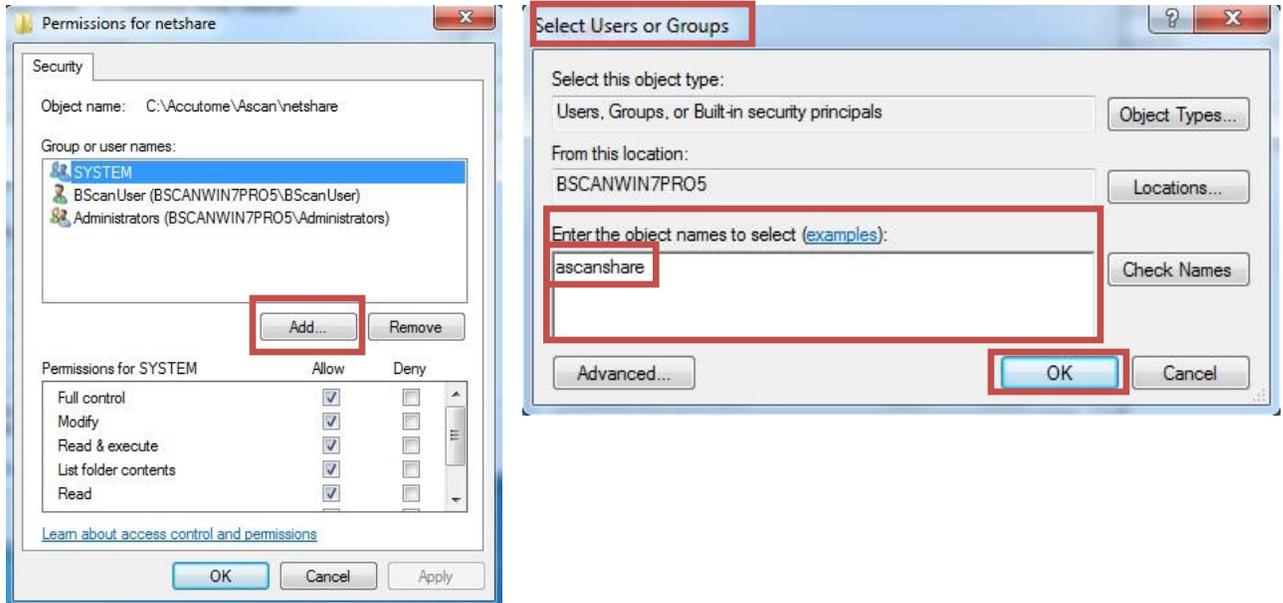


2. Once the PC has restarted, log in to the **administrator account** (original).
3. Modify the Read/Write permission of "netshare" folder:
 - a. Open location "C:/Accutome/Ascan" and right click on folder "netshare" then select "Properties". Select "Security" tab on the "netshare Properties" menu then press "Edit".

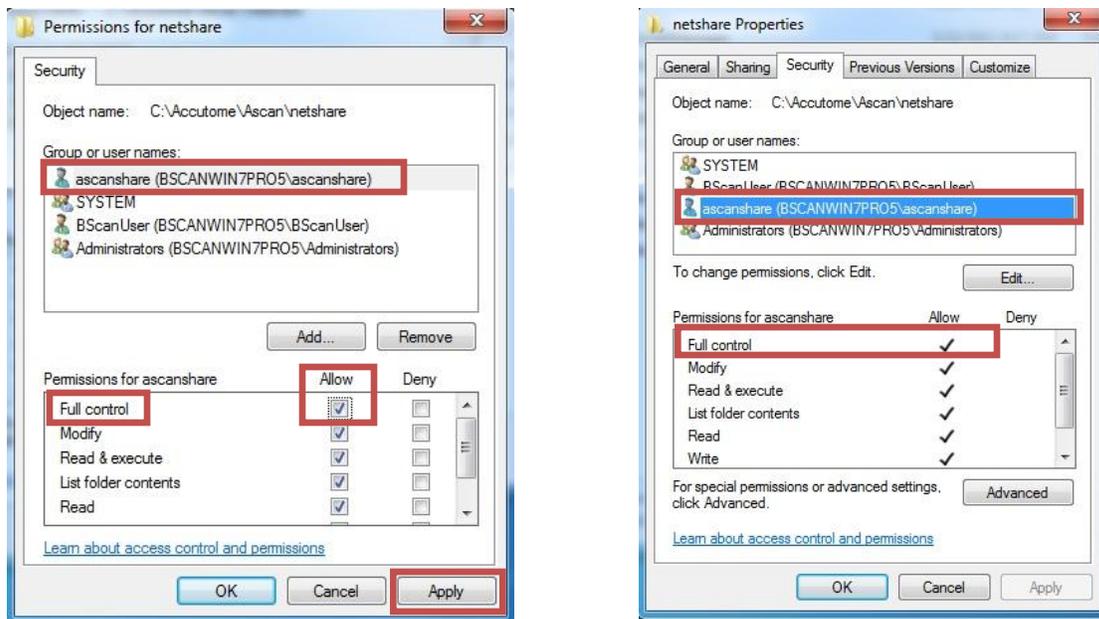


Setup Network File Sharing between Windows PC and A-ScanPlus

- b. Press the “Add” button to add a user. In the “Select Users or Groups” menu, enter “ascanshare” in the box “Enter the object names to select” then press “OK” to add the user.



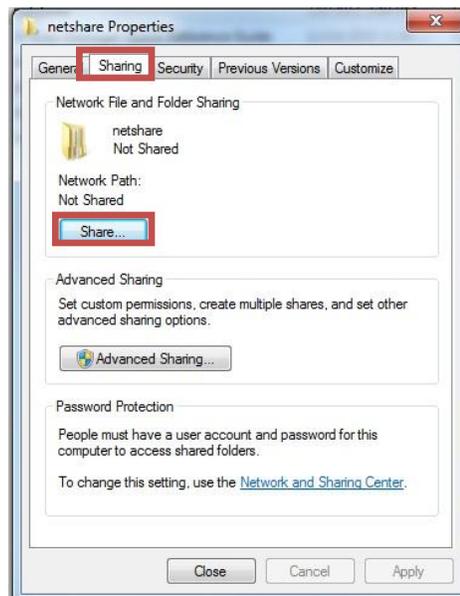
- c. Select the user “ascanshare” on the list and click “Allow” box for “Full control” in the “Permissions for ascanshare” box. Then press “Apply”. The menu will update and “ascanshare” has “Full control” permission to the folder. Click “OK” to exit.



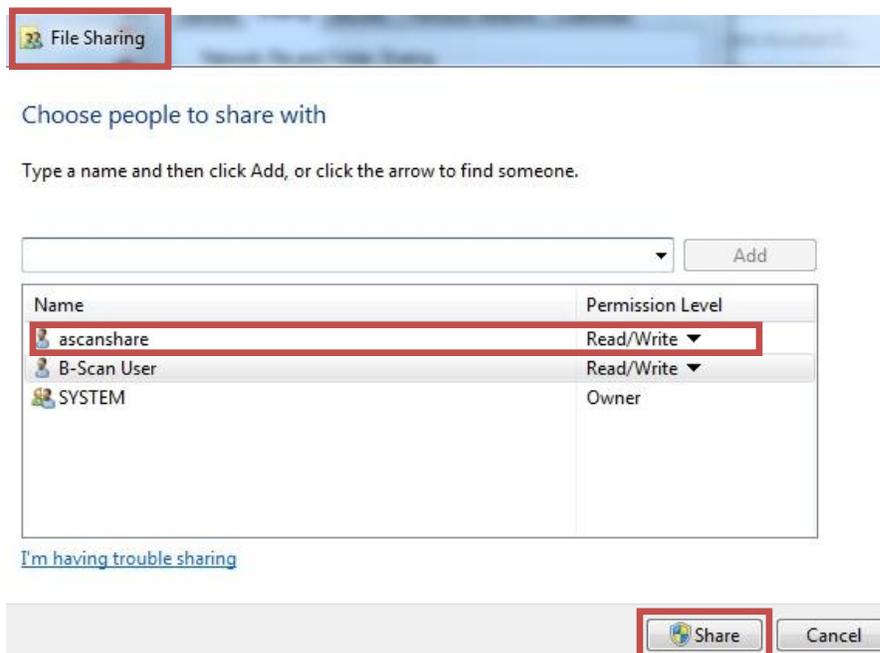
Setup Network File Sharing between Windows PC and A-ScanPlus

4. Sharing the folder “netshare”:

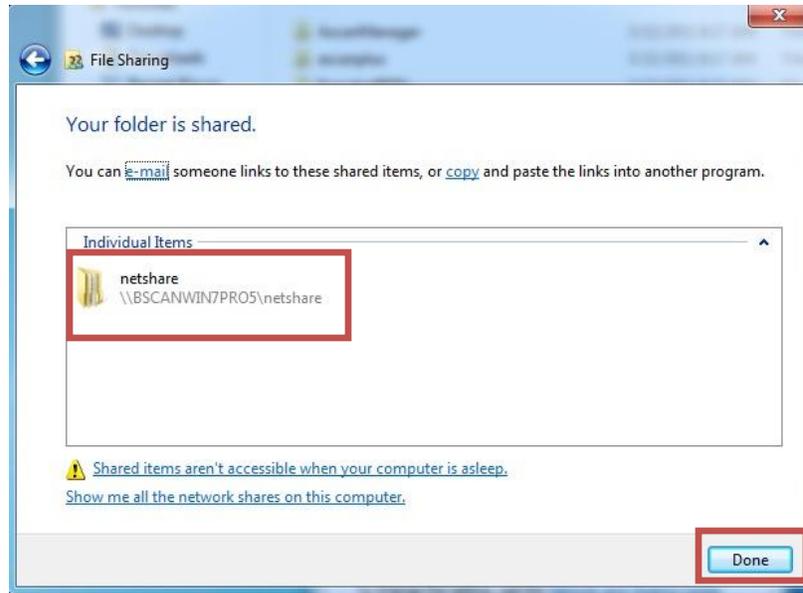
- a. Select the “Sharing” tab on the “netshare Properties” menu then press the “Share” button.



- b. Check and make sure account “ascanshare” has “Read/Write” (Windows 7) or “Co-owner” (Windows Vista) in the “Permission Level”. Press the “Share” button to share the folder. Press “Done”..



Setup Network File Sharing between Windows PC and A-ScanPlus



c. Close all open windows.

NOTE: The shared name includes the computer name and folder name.

For example, the snapshot on the right has the following information:

Computer name: BSCANWIN7PRO5

Folder name: netshare



These two entries combined with the account name and password are very important in the setup of the A-Scan Plus network connections.

The "Computer name" can also be found on "Computer" -> "Properties" menu.



****These names are specific to your PC. Please make a note of them to be used in future steps.**

Setup Network File Sharing between Windows PC and A-ScanPlus

III. Configure and Test Network Connection on A-Scan Plus

Network connection features are only available on an **A-Scan Plus software version 4.3.0 or newer**. Anyone who has an older version of A-Scan Plus needs either software or both software and hardware upgrades. The connection should be limited to a TCP-IP **“Class-C”** local area network. We recommend that the network has a domain name server (DNS) and a DHCP server. Also, the A-Scan Plus requires a Cat5/6 RJ45 Ethernet cable to connect to the network. Please make sure the network and the PC are up and running and connect the A-Scan Plus to the network before turning on the unit.

1. Configure IP address of the A-Scan Plus unit:

Turn the unit on and go to **“Setup”** menu. Select the **“Network Address”** field using the **“Tab”** key or the rotary knob. **“Automatic”** is the default setting and it acquires the IP address via DHCP. If static IP address is required, you can switch it to **“Manual”**. After the manual mode is selected, three entries below will become editable. Please consult the network administrator for setting of all three entries.

If the **“Network Address”** is set to **“Automatic”** and connected to the network, the unit should get a valid IP address and two other fields from the DHCP server after boot. If the **“IP Address”** and other two fields are blank, something must be wrong with the network connection. Please check the network cable and restart the A-Scan Plus unit. If the problem persists, please contact the local network administrator to resolve the issue. Please make sure there is a valid IP address before configuring the network folder section.

The screenshot displays the 'Network address selection method' menu. The 'Setup' button is highlighted in the top right corner. The 'Printer' is set to 'None' with an 'Update...' button. The 'Print Title' is 'Accutome Malvern'. The 'K Index' is '1.3375' and the 'IOL Step' is '0.50'. The 'Network Address' is set to 'Automatic' and is highlighted with a red box. Below it, the 'IP Address' is '10.2.1.156', 'Subnet Mask' is '255.255.255.0', and 'Gateway Address' is '10.2.1.1'. The 'Network Folder' is 'On'. There are fields for 'Host', 'Folder', 'User', and 'Pword'. The 'Contrast' is adjustable. The 'New Patient Defaults' section includes 'Eye Type' (Phakic), 'ID', 'Gain' (15 dB), and 'Target' (0.00 D). The 'Date/Time' is set to 2011.03.31 11:40:49. The 'Auto Mode (R)' section has 'Sclera' (Off), 'Retina' (On), and 'Stable' (Off). The bottom bar contains buttons for 'Sound ON/OFF', 'Restart ON/OFF', 'Scr Save ON/OFF', 'Save Gates', 'About This Unit...', and 'Done...'.

Setup Network File Sharing between Windows PC and A-ScanPlus

The following steps will guide you through entering data in “Manual” mode:

- a. Press the “**Enter**” or “**v**” button to activate the box to allow changes.

Network Address	Automatic
IP Address	10.2.1.156
Subnet Mask	255.255.255.0
Gateway Address	10.2.1.1

- b. Press “**→**” or “**←**” key or turn the knob to change from “**Automatic**” to “**Manual**”.

Network Address	Manual
IP Address	
Subnet Mask	
Gateway Address	

- c. Press the “**Enter**” key to set to “**Manual**” mode.

Note: Make sure to restart the unit after the mode changes.

Network Address	Manual
IP Address	
Subnet Mask	
Gateway Address	

- d. Use the “**Tab**” key or the rotary knob to select the three entry boxes.

Network Address	Manual
IP Address	
Subnet Mask	
Gateway Address	

- e. Press the “**Enter**” or “**v**” button to activate the box and allow the **static IP** to be entered.

Network Address	Manual
IP Address	
Subnet Mask	
Gateway Address	

- f. Type in the **static IP** of the site. Press the “**Enter**” key when finished and press “**Tab**” to move to the **Subnet Mask** field.

Network Address	Manual
IP Address	10.2.1.251
Subnet Mask	
Gateway Address	

- g. Type in the network mask to the site and press Enter when finished. Press “**Tab**” to move to **Gateway Address**.

Network Address	Manual
IP Address	10.2.1.251
Subnet Mask	255.255.255.0
Gateway Address	

- h. Type in the address of the gateway computer and press “**Enter**” when finished. Restart the unit to make those changes effective.

Network Address	Manual
IP Address	10.2.1.251
Subnet Mask	255.255.255.0
Gateway Address	10.2.1.1

Setup Network File Sharing between Windows PC and A-ScanPlus

2. Configure Network Folder:

- a. Move the selection to the “**Network Folder**” section. The first entry is the “**On/Off**” toggle. The default is “**On**”. In case networking is not available or users do not intend to use the networking features, it can be turned to “**Off**”. When it is set to “**Off**”, the “**Network Folder**” location in “**Patient Records**” menu will stop functioning. In this set-up, we will leave it “**On**” and focus on how to set up the folder sharing.

The screenshot shows the 'Network Folder' configuration window. The 'Network Folder' toggle is set to 'On'. The 'Host Folder User Pword' section is highlighted with a red box, indicating the fields for Host, Folder, User, and Password. The 'New Patient Defaults' section shows 'Eye Type' as 'Phakic', 'Gain' as '15 dB', and 'Target' as '0.00 D'. The 'Date/Time' section shows '2011-03-31 11:29:07'. The 'Auto Mode (R)' section shows 'Sclera' as 'Off', 'Retina' as 'On', and 'Stable' as 'Off'. The bottom of the window has buttons for 'Sound ON/OFF', 'Restart ON/OFF', 'Scr Save ON/OFF', 'Save Gates', 'About This Unit...', and 'Done...'.

- b. Previously, we went through setting up an account and sharing a folder from a windows PC and collected some information. Now we need that information for connecting the network folder. The following are required fields:
 - 1) Computer name (**Host**) .
 - 2) Shared folder name (**Folder**).
 - 3) User name of an account on the PC (**User**).
 - 4) Password of the account (**Pword**) .

We got following data from the previous examples:

Computer name (**Host**): BSCANWIN7PRO5
Shared folder name(**Folder**): netshare
User name of an account on PC(**User**): ascanshare
Password of the account(**Pword**): accutome/2011

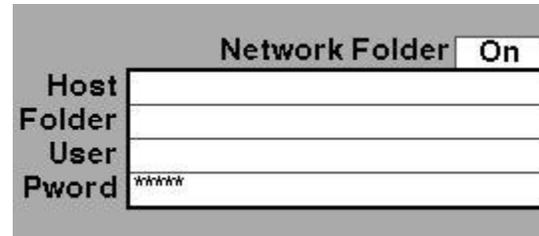
Note: Above data only for demonstration, you must get data from your own PC.

Setup Network File Sharing between Windows PC and A-ScanPlus

- c. The following steps show how to enter above data into each entry.

Note: Except the “Computer name” field, all other data are case sensitive and have to be typed in exactly the same case as in the PC.

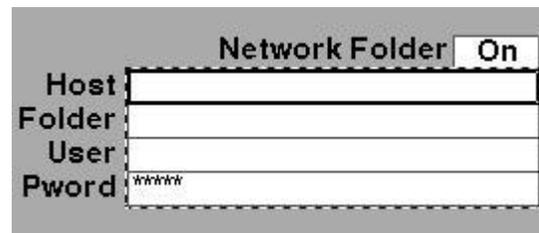
- 1) Move from “On/Off” toggle to next four entries box.



Network Folder On

Host
Folder
User
Pword *****

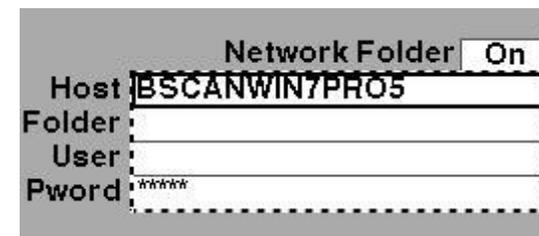
- 2) Press “Enter” or press “V” button to activate the box. The border of the entire box turns to a dashed line and **Host** will be selected automatically.



Network Folder On

Host
Folder
User
Pword *****

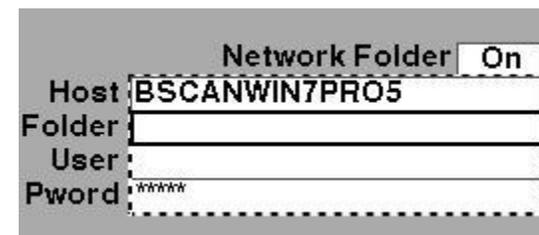
- 3) Type in the **computer name** and press “Enter” when finished. The border of the box will turn to a dashed line when you start typing and turn back to solid after you press “Enter”.



Network Folder On

Host BSCANWIN7PRO5
Folder
User
Pword *****

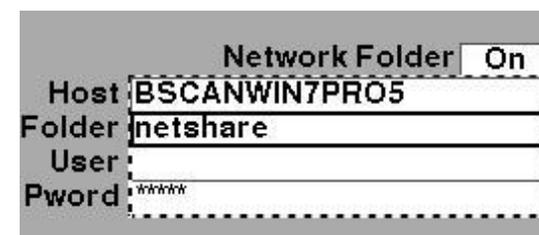
- 4) Press the “Tab” key to move to the **Folder** box.



Network Folder On

Host BSCANWIN7PRO5
Folder
User
Pword *****

- 5) Type in the **shared folder name** and press “Enter” when finished.



Network Folder On

Host BSCANWIN7PRO5
Folder netshare
User
Pword *****

Setup Network File Sharing between Windows PC and A-ScanPlus

- 6) Press the “Tab” key to move to the **User** box and type in **name of the account** and press “Enter”.

Network Folder		On
Host	BSCANWIN7PRO5	
Folder	netshare	
User	ascanshare	
Pword	*****	

- 7) Press the “Tab” key to move to the **Pword** box.
Note: You need to use “Backspace” to remove “*****” characters before typing in the password.

Network Folder		On
Host	BSCANWIN7PRO5	
Folder	netshare	
User	ascanshare	
Pword	*****	

- 8) Type in the **password of the account** and press “Enter”.
Note: the password will turn back to “*****” characters after you press “Enter”.

Network Folder		On
Host	BSCANWIN7PRO5	
Folder	netshare	
User	ascanshare	
Pword	accutome/2011	

- 9) Press “Enter” again to turn the border of the entire box to solid and you can move to another section.

Network Folder		On
Host	BSCANWIN7PRO5	
Folder	netshare	
User	ascanshare	
Pword	*****	

- 10) If you need to make any changes or found any errors in the data, press “Enter” again and it will activate the entire box and use the “Tab” key to move up and down.

Network Folder		On
Host	BSCANWIN7PRO5	
Folder	netshare	
User	ascanshare	
Pword	*****	

Note: The A-Scan Plus won't start making any connection until you press the “Done” button. Please follow the next section for making and testing connections.

Setup Network File Sharing between Windows PC and A-ScanPlus

1. Testing Network Connection on A-Scan Plus

After we configure the network folder connection on the A-Scan Plus, we can start testing the connection. Make sure the network and the PC are up and running before we can start testing the connection.

2. Connect to the PC folder:

Press the “**Done**” button on the unit and the following message will be displayed on the top left corner of the screen “**Changing network folder setting**”. If connecting was successful, the screen will change to the “**Default Eye Types**” menu. You can now start using the network folder in the “**Patient Records**” menu.

3. Troubleshooting the problems:

If something goes wrong, the unit will generate an error sound and the following message will show up: “**Network folder not found. Please check setting**”. Press “**OK**” to clear error message and go back to “**Setup**” menu. Please double check the data you entered to “**Network Folder**” section and check the PC settings and try again.

Note: If you press “Done” again without making any changes to the Network Folder settings, it will bypass the error message and the network folder will remain unfound.