Chronos SMB Share Setup Guide

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Purpose:

This guide demonstrates how to set up an SMB Network Share on a Windows computer for a Chronos 1.4 or 2.1-HD camera to save footage directly to a PC over a network.

Please note that this is only applicable to cameras connected via ethernet, and that cameras connected directly to a PC via ethernet over USB are currently not supported by this guide.

Prerequisites

a) Windows 10
b) Chronos 1.4 or 2.1
c) Software version 0.4.0 or greater
d) Connection over ethernet
e) SMB Port 445 open on any applicable firewalls

Basic SMB Share Configuration
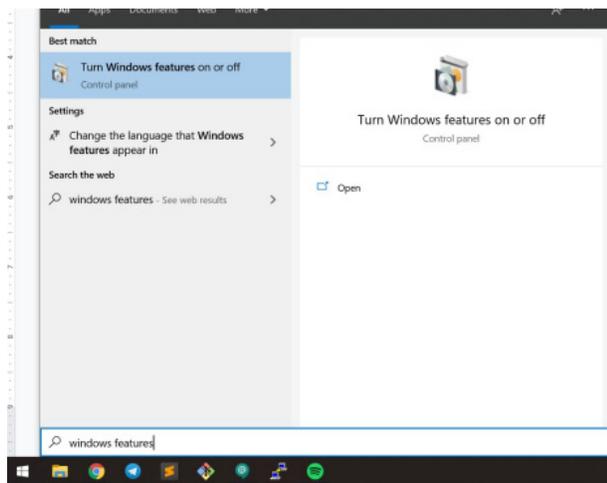
Step 1 - Open Windows Features

Click on the Start button, then search for "Windows features".
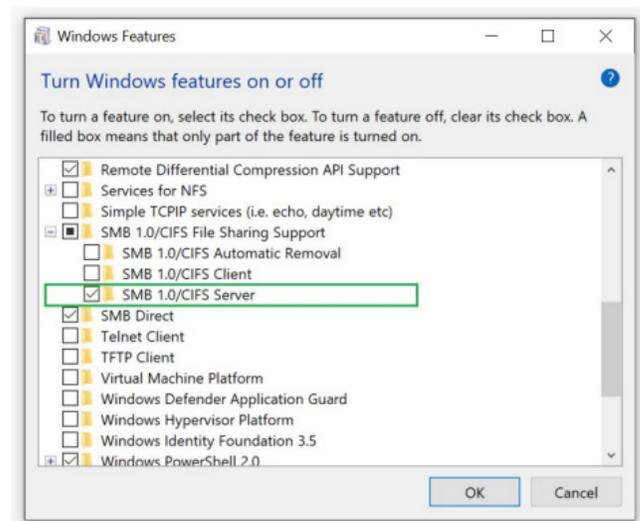
Step 2 - Enable SMB Server

Scroll down the list of extra Windows features until you reach "SMB 1.0/CIFS File Sharing Support", then expand the options and enable "SMB 1.0/CIFS Server" -> OK.

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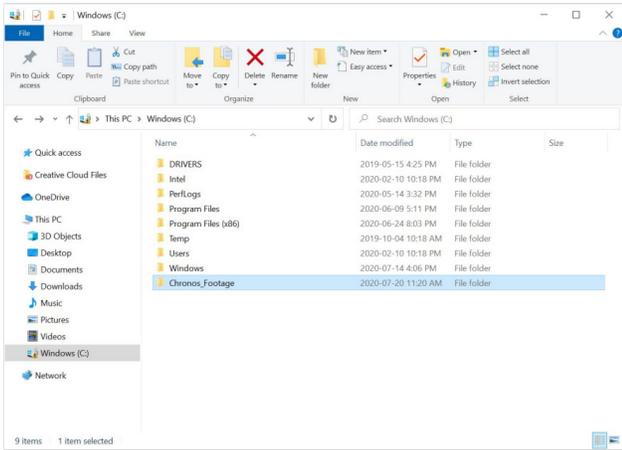
Step 3 - Create a destination folder for footage to be saved to

Navigate to the root directory of your main drive (in this case, it is C:\).

Create a new folder and rename as needed (in this case, the folder is called Chronos_Footage).

Note: Do not use spaces or special characters in the folder name.

Step 4 - Open the Sharing properties window

Right-click the destination folder created in Step 3, and select Properties.

Navigate to the "Sharing" tab, then click "Share..."
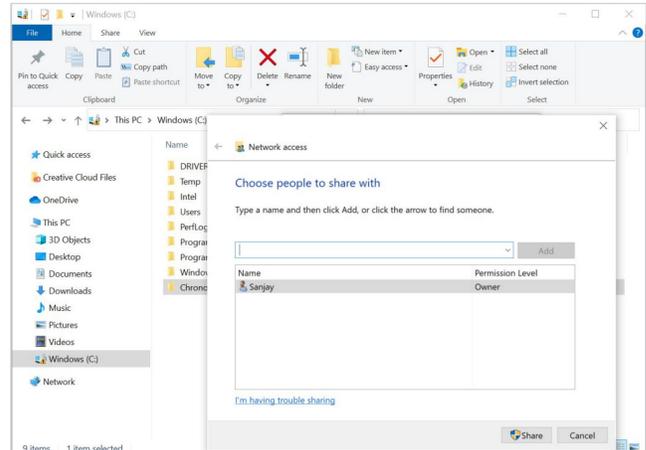
Step 5 - Enable sharing for the destination folder

Select the name of the user whose Windows login details will be used to connect from the camera.
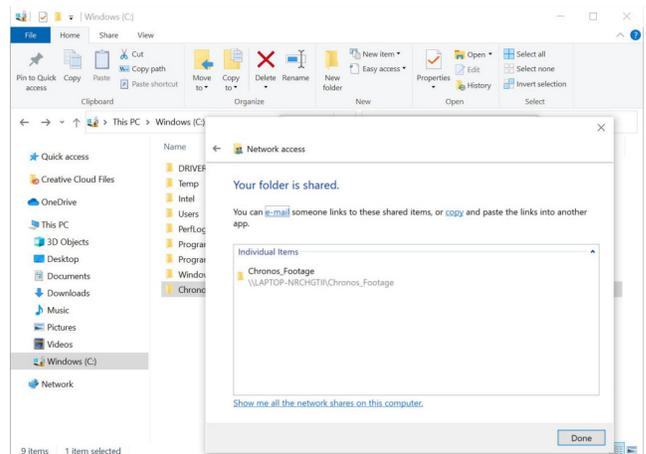
Step 6 - Click Share

Click "Share" to enable SMB sharing of the destination folder, then click "Done" to complete the configuration for this folder.
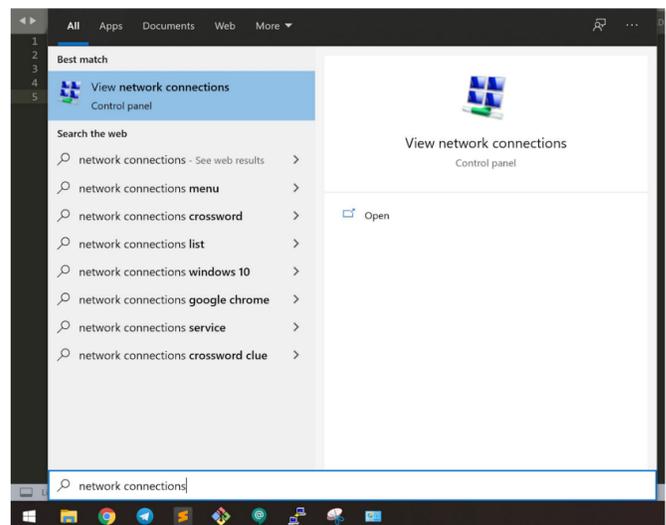
Step 6 - Open Network Details

Click the Start button and search for "network connections".
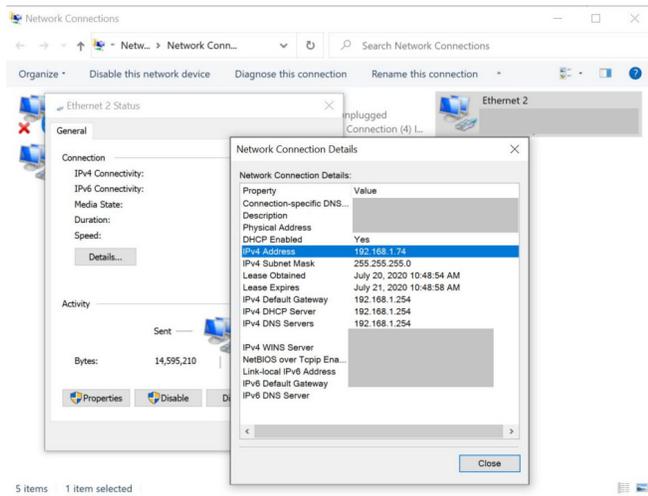
Step 7 - Determine your PC's IP address

Find the network connection that is active. This should also be the network that the Chronos is connected to.

Right-click on the active network connection and click "Status".

In the Status window, click "Details...".

In the Network Connection Details window, note down the value beside "IPv4 Address". This will be typed into the camera in the next step to allow it to discover your PC.
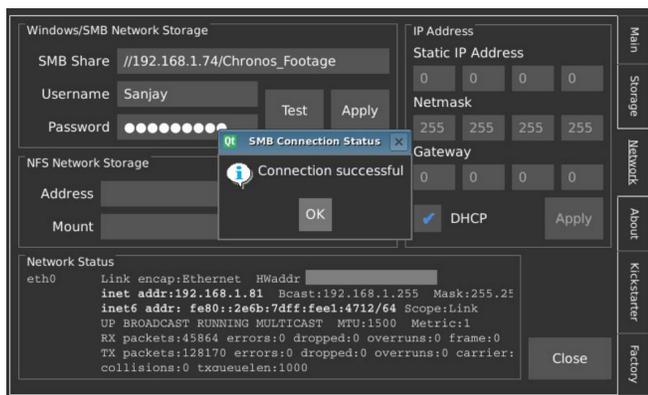
Step 8 - Enter the SMB connection details into the Chronos

On the Chronos, enter the Networking screen by tapping Util -> Network.

In the top left corner of the screen, enter the following credentials:

SMB Share: //<Your PC's IP as found in Step 7>/<The folder as named in Step 3> Username: <The username used to log into your Windows account>

Note: Windows usernames with spaces are not compatible with the camera settings. If this is the case, please see Appendix A to create a new set of Windows credentials for the camera.

Password: <The password used to log into your Windows account>

Note: The Test button can only be used to test for a valid connection after Apply has been tapped to save any new connection details.
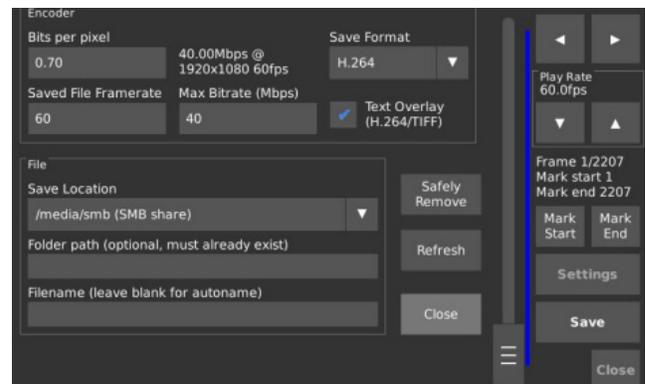
Step 9 - Save footage to the SMB share

If your camera has successfully connected to the SMB share, /media/smb (SMB share) will automatically be present in the list of save locations.

Ensure /media/smb (SMB share) is listed as the active save location, and then tap Save to begin saving footage to your PC over the network.
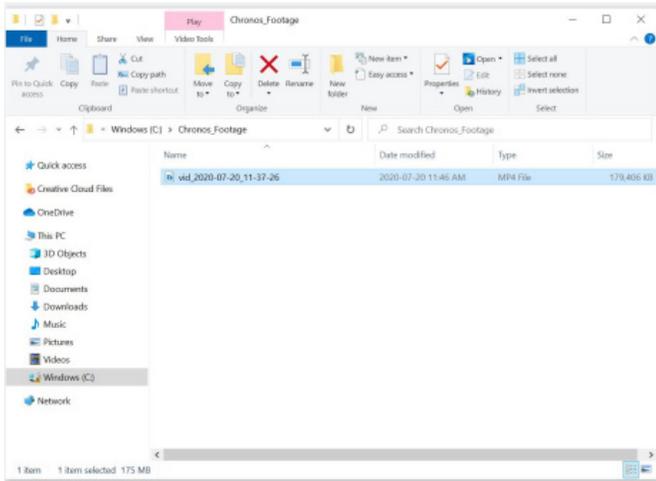
Step 10 - Confirm that the footage was saved to the desired location

Navigate to the SMB share folder as set in Step 3.
If the SMB share was correctly configured and the saved footage was correctly transferred, it will be available in this folder.

Configuration and testing of the SMB share is now complete. ✓

Appendix A - Creating a new user account for SMB access

In the case that it is undesirable to use the login credentials of a current Windows user to allow the Chronos to access the SMB share, a new Windows account can be created for specific use in this case.

This implies additional steps, which are outlined below.

Create a new user account in Windows
1. Go to Start -> Settings -> Family & other users
2. Click "Add someone else to this PC"
3. When prompted with the question "How will this person sign in?", click on "I don't have this person's sign-in information"
4. Click "Add a user without a Microsoft account"
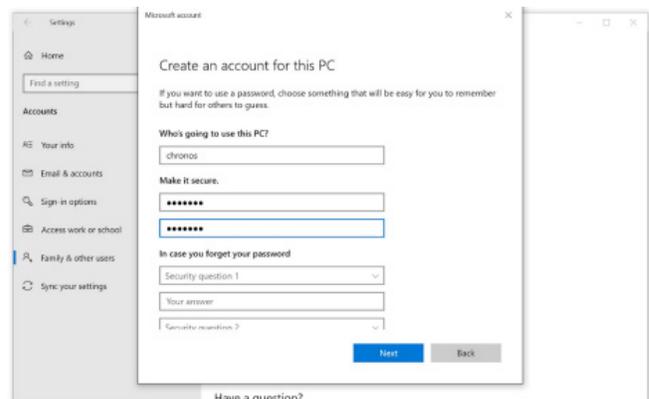
Continue with the standard setup guide until Step 5, then configure the folder with the additional steps below.
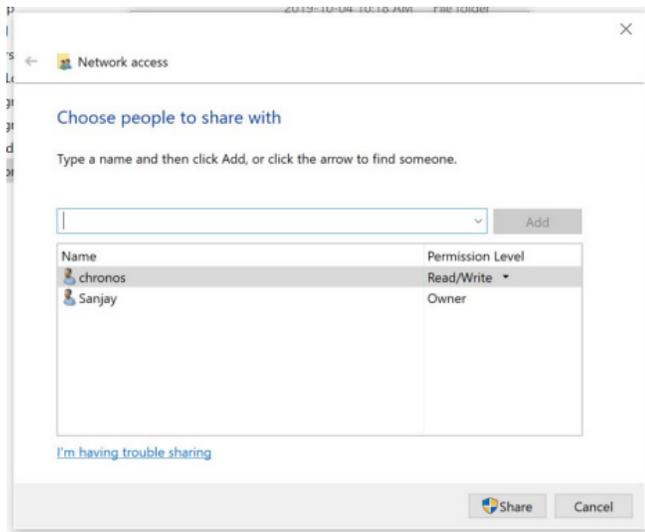
Step 5A - Add the new user to the list of people to share the folder with

From the dropdown menu, select the new user that was created. In the case of this example, it is "chronos".

Set the Permission Level to Read/Write.
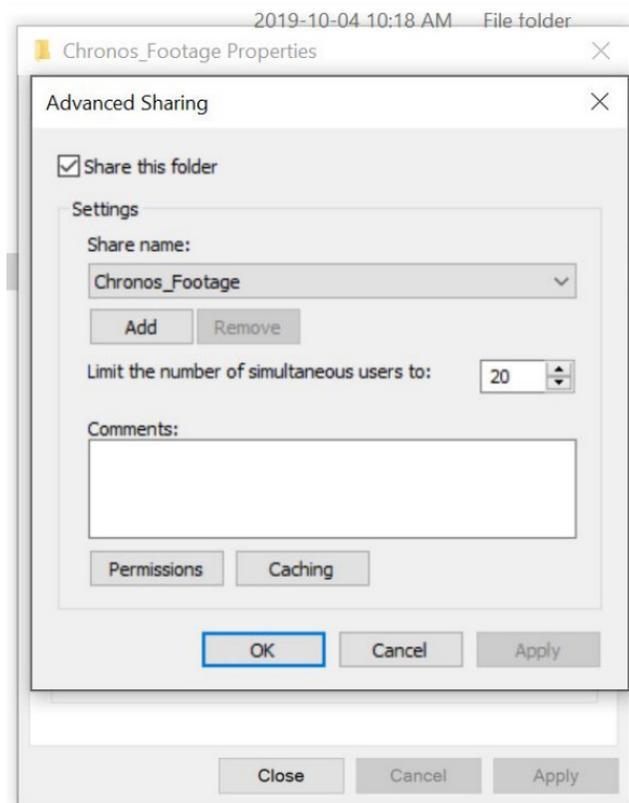
Step 5B - Open the Advanced Sharing Menu

In the Properties dialog of the folder to be shared, click on the "Advanced Sharing" button.

Then click Permissions -> Add.
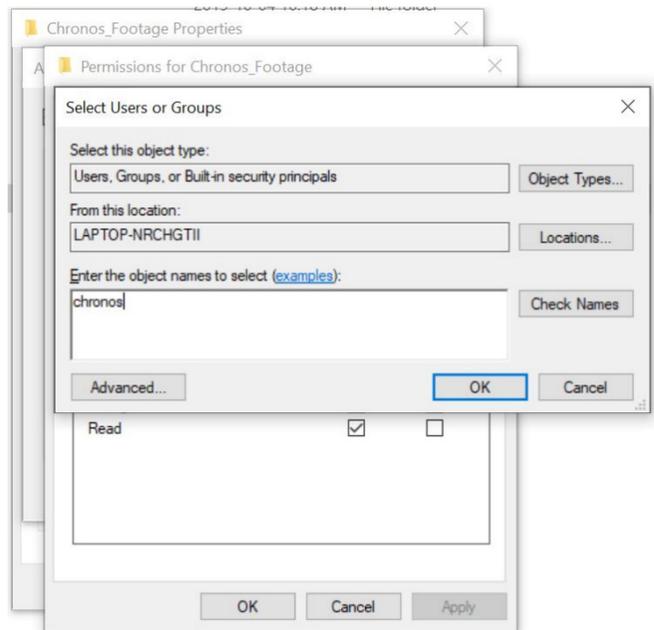
Step 5B - Add the newly created user to the permissions configuration

Enter the name of the user who was created into the box as shown above, then click OK.
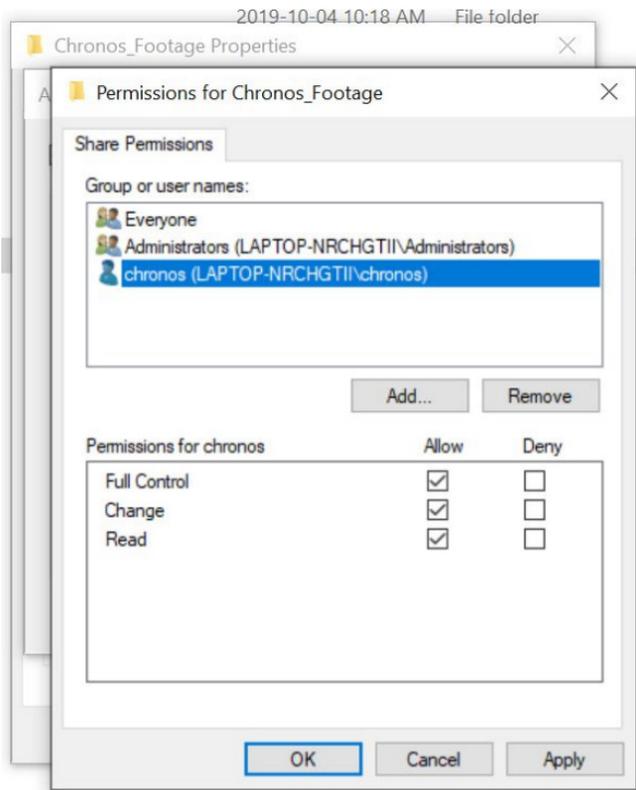
Step 5C - Set the permissions for the newly added user
Select Allow for all Full Control, Change, and Read in the checkbox selection area, then click OK to confirm.

Proceed with Step 6 in the regular guide as usual. The configuration will now accept the credentials as created in this Appendix section.

Troubleshooting

The table below contains common error messages that are displayed on the camera when an attempt to connect to a SMB share does not succeed.

If the troubleshooting tips below do not help, please contact your IT administrator or support@krontech.ca with any questions.

Note: Please tap the Apply prior to using the Test button to ensure changes are applied.

Error Message on Camera	Corrective Recommendation
Mount failed: Retrying with upper case share name	Check for typos in the share folder name.
<IP address> is not reachable!	Ensure that the camera is connected to the network, and that the host PC's IP address has been entered into the camera correctly.
Mount failed: Permission denied	Ensure that the username and password have been entered into the camera correctly.
Mount failed: Usage ...	The format of the text entered into the field SMB Share, Username, or Password is incorrect and cannot contain spaces.