# **Chronos SMB Share Setup Guide**



## Purpose

This guide demonstrates how to set up a SMB Network Share on a Windows computer in order for a Chronos 1.4 or 2.1 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.

Date: 2020-07-22

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Prerequisites

- Windows 10
- Chronos 1.4 or 2.1
- Software version 0.4.0 or greater
- Connection over ethernet
- SMB Port 445 open on any applicable firewalls

## **Basic SMB Share Configuration**

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#### Step 1 - Open Windows Features

Click on the Start button, then search for "windows features".

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Turn Windows features on or off			?
To turn a feature on, select its check box. To turn a feature off, cl filled box means that only part of the feature is turned on.	ear its ch	ieck box. /	4
<ul> <li>Remote Differential Compression API Support</li> <li>Services for NFS</li> <li>Simple TCPIP services (i.e. echo, daytime etc)</li> <li>SMB 1.0/CIFS File Sharing Support</li> <li>SMB 1.0/CIFS Automatic Removal</li> <li>SMB 1.0/CIFS Client</li> <li>SMB 1.0/CIFS Server</li> <li>SMB Direct</li> <li>Telnet Client</li> <li>TFTP Client</li> <li>Virtual Machine Platform</li> <li>Windows Defender Application Guard</li> <li>Windows Identity Foundation 3.5</li> <li>Windows Identity Foundation 3.5</li> </ul>			~
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#### 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...".

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	I'm having trouble sharing		
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## 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".

Select the "View network connections" result.

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Connection —		Network Connection Details	×
IPv4 Connect	tivity:	Network Connection Details:	
IPv6 Connect	tivity:	Property Value	
Media State:		Connection-specific DNS	
Duration:		Description Physical Address	
Speed:		DHCP Enabled Yes	
Details		IPv4 Address 192.168.1.74	
		IPv4 Subnet Mask 255.255.255.0	
		Lease Expires July 21, 2020 10:48:58 AM	
Activity		IPv4 Default Gateway 192.168.1.254	
	Sent	IPv4 DHCP Server         192.168.1.254           IPv4 DNS Servers         192.168.1.254	
	0	IPv4 WINS Server	
Bytes:	14,595,210	NetBIOS over Tcpip Ena	
		Link-local IPv6 Address	
Properties	Disable	Di IPv6 DNS Server	
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#### 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.

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SMB Share	//192.168.1.74	/Chronos_Footag	e	Static I	P Addre	ess		
				0	0	0	0	Sto
Username	Sanjay	Test	Apply	Netma	sk			orag
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#### 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>

Tap the Apply button to proceed. The Chronos will attempt to connect to the SMB share as specified. If the connection is successful, your Chronos is now ready to save to your PC over the network!

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.

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<ul> <li>This PC</li> <li>3D Objects</li> <li>Desktop</li> <li>Documents</li> <li>Downloads</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> <li>Windows (C:)</li> </ul>						
Network 1 item1 item selected	<					> ()::::::::::::::::::::::::::::::::::::

#### 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"
- 5. Add a username and a password. Do not use spaces or special characters in the username.
- 6. Restart the PC to ensure that the new user's changes take effect.

$\leftarrow$ Settings	Microsoft account X — U X
<ul> <li>ᢙ Home</li> <li>Find a setting</li> <li>Accounts</li> </ul>	Create an account for this PC If you want to use a password, choose something that will be easy for you to remember but hard for others to guess.
R≡ Your info	Who's going to use this PC?
🖾 Email & accounts	Make it secure.
🖓 Sign-in options	•••••
Access work or school	•••••
$R_{\star}$ Family & other users	In case you forget your password
$\bigcirc$ Sync your settings	Security question 1 V
	Your answer
	Security question 2
	Next Back
	Have a question?

# Continue with the standard setup guide until Step 5, then configure the folder with the additional steps below.

		/
Network access		
Choose people to share with		
Type a name and then click Add, or click th	e arrow to find someone.	
	~ Add	
Name	Permission Level	1
🐁 chronos	Read/Write 👻	
Sanjay	Owner	
I'm having trouble sharing		]
	Choose people to share with Type a name and then click Add, or click the Name Chronos Sanjay I'm having trouble sharing	Choose people to share with Type a name and then click Add, or click the arrow to find someone. Add Name Permission Level Chronos Read/Write * Sanjay Owner I'm having trouble sharing

#### 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.

Ch	nronos_Foot	2019-10-04-10:18 AM tage Properties	File folder	$\times$
Adv	anced Shari	ng		×
	Share this fo	lder		
s	ettings			
	Share name	:		
	Chronos_F	ootage	~	
	Add	Remove		
	Comments:	nder of simultaneous users to:	20	
	Permissio	ns Caching		
		OK Cancel	Apply	
		Close Cancel	Apply	

### Step 5B - Open the Advanced Sharing Menu

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

The click Permissions -> Add..

ALL AND REPORT OF ALL AND			
Select Users or Grou	ips		
Select this object type	E.		
Users, Groups, or Bui	It-in security principals	(	Object Type
From this location:			
LAPTOP-NRCHGTII			Locations
Enter the object name	s to select (examples):		
chronos			Check Nam
Advanced		ОК	Cance
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#### 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.

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Share Permissions		
Group or user names:		
Se Everyone		
Administrators (LAPTOP-I	GTII\chronos)	ors)
		-
	Add	Remove
Permissions for chronos	Allow	Deny
Full Control	$\checkmark$	
	$\checkmark$	
Change		
Change Read	$\checkmark$	
Change Read	$\checkmark$	
Change Read		
Change Read		

#### 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 <a href="mailto:support@krontech.ca">support@krontech.ca</a> 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!</ip>	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.	

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