



**Channel 4**

**User Manual**

**Version 2.0**

# Table Of Contents

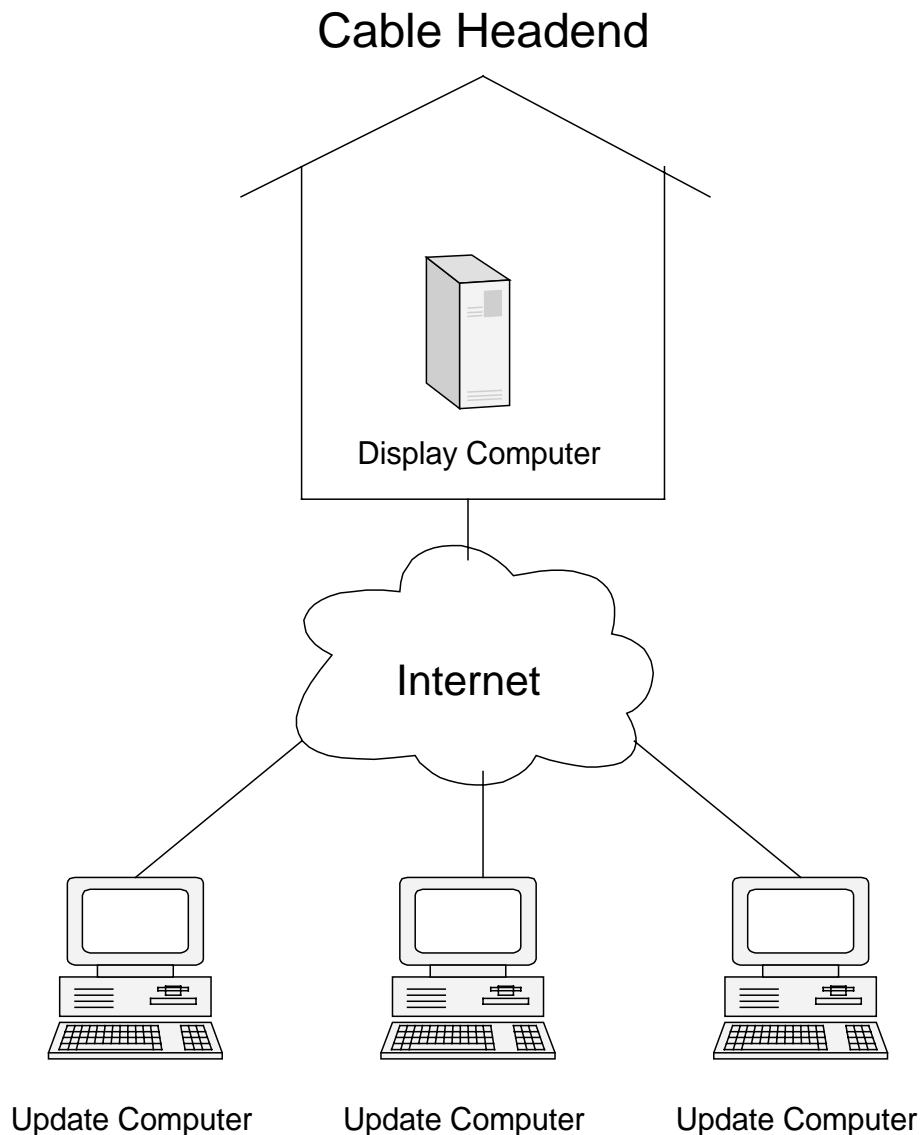
Introduction.....	1
System Requirements .....	2
Installation.....	3
Creating a Program .....	7
Uploading a Program.....	8
Support.....	8

## Introduction

Evsl's "Channel 4" product provides all of the necessary equipment to facilitate a community television station, to be broadcast over the local cable system.

The television programming consists of various "slides", which are created by the user. Current time, date, and weather information (optional) is displayed at the bottom of each slide. Users also have the option to schedule the playing of full motion video files.

There are two separate components which are required to operate Channel4. The Display computer is located in the headend, and produces the video signal to be displayed on the cable system. The Update computer(s) produce the program content, and upload it to the display computer via an Internet connection.



## **System Requirements**

### Display Computer

#### Minimum System Requirements:

- Intel Celeron 1.5 GHz CPU
- 128 MB RAM
- Windows XP or 2000
- CD ROM
- “Always On” Internet Connection.
- RS232 Serial port (required for weather data option)
- ATI 64 MB Graphics card with TV out

#### Recommended System Requirements:

- Intel Pentium 4 2.0 GHz
- 256 MB RAM
- Windows XP Professional
- RS232 Serial port (required for weather data option)
- CD ROM
- High Speed Internet connection
- ATI 128 MB Graphics card with TV out

### Update Computer

#### Minimum System Requirements:

- Intel Pentium II CPU or equivalent
- 64 MB RAM
- Windows XP or 2000
- CD ROM
- Internet Connection (broadband or dialup)

#### Recommended System Requirements:

- Intel Pentium 4 2.0 GHz
- 256 MB RAM
- Windows XP Professional
- CD ROM
- High Speed Internet connection

## Installation

### 1) Software installation

**Note: If you have purchased a pre-configured system from EVSL, please skip to step 1b.**

#### a. Display Computer:

Note: If you have purchased a pre-configured system from evsl, you may skip to part step 1b.

There are three separate programs included on your Channel 4 Installation CD. On your display computer (usually located in the cable headend), it is only necessary to install the Channel4 program, and the FileZilla FTP server.

Insert your Channel 4 CD. An option list should appear on your screen. Click on *Install Channel 4*. If you do not see the option list, open the folder entitled “channel4” in the installation CD and run “setup.exe”. The default installation parameters are recommended.

Return to the option list, and select *install FTP Server*. If you do not see the option list, open the folder entitled “ftp” in the installation CD and run “filezilla\_setup.exe”. The default installation parameters are recommended.

When the filezilla installation is complete, the FileZilla Server Interface should launch automatically. If the FileZilla Server Interface does not appear, it can be accessed by clicking on the FileZilla icon on the desktop, or by clicking on the FileZilla icon on the start menu. When prompted for an IP address, accept 127.0.0.1. Leave the password field blank.

Open the *edit* menu, and click on *users*. Add a user by clicking the *Add* button on the right side of the screen. The user name you specify will be required to update the community channel.

Add a password to the new account by checking the *Password* checkbox, and entering the desired password in the text box. This password will also be required to update the community channel.

On the left side of the screen, click on *Shared Folders*. Click the *Add* button, and select *C:/* as the shared folder. Make sure that this folder is designated as the home directory.

Give this user all privileges by checking all 8 checkboxes under *Files* and *Folders* to the right of the Shared Folders list. Click the *OK* button in the bottom left corner of the screen.

Activate the server by opening the *server* menu, and clicking on *Active*. A checkmark beside *Active* indicates that the server is running.

If Microsoft PowerPoint is not installed on the Display machine, it should be installed now. Insert the MS Office or MS PowerPoint CD and follow the on-screen instructions. Consult your PowerPoint manual for assistance.

b. Uploading Computer(s)

The computers which are to be used to update the program must have both “channel 4” and “uploader” installed.

Select *Install Channel 4* from the options list, or browse to the “channel4” folder on your installation CD, and run setup.exe. The default installation parameters are recommended.

Select *Install Uploader* from the options list, or browse to the “uploader” folder on your installation CD, and run setup.exe. The default installation parameters are recommended.

If Microsoft PowerPoint is not installed on the Uploading machine, it should be installed now. Insert the MS Office or MS PowerPoint CD and follow the on-screen instructions. Consult your PowerPoint manual for assistance.

2) Automatic Restart configuration.

**Note: If you have purchased a pre-configured system from EVSL, please skip to step 3.**

In order to ensure the system remains stable, it is recommended that the display computer be rebooted periodically.

To do this, open the control panel on the display computer. Click on *performance and maintenance*, and then *scheduled tasks*. Create a new task by clicking on the File menu, and selecting New → Scheduled Task. Once the task has been created, open the task by double-clicking on it. Under the *Task* tab, in the *Run* field, type “shutdown -r -t 00”.

Next, open the *Schedule* tab. Select the time of day, and frequency at which you would like the system to restart. At least once a week, sometime in the middle of the night is recommended.

When finished, click *Apply*. The task scheduler will ask for your username and password. Note that the user the task scheduler is run under **must** have a password associated with their account.

Next, Windows must be configured to automatically logon during the restart process.

- a) Click **Start**, click **Run**, type `regedit`, and then click **OK**.
- b) Locate the following registry key:  
`HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WindowsNT\CurrentVersion\Winlogon`
- c) Using your account name and password, double-click the **DefaultUserName** entry, type your user name, and then click **OK**.
- d) Double-click the **DefaultPassword** entry, type your password under the value data box, and then click **OK**.

If there is no **DefaultPassword** value, create the value. To do this, follow these steps:

- In Registry Editor, click **Edit**, click **New**, and then click **String Value**
  - Type `DefaultPassword` as the value name, and then press **ENTER**.
  - Double-click the newly created key, and then type your password in the **Value Data** box.
- e) Double-click the **AutoAdminLogon** entry, type `1` in the **Value Data** box, and then click **OK**.
  - f) Quit Registry Editor.
  - g) Click **Start**, click **Restart**, and then click **OK**.

Finally, the system must be configured to automatically start the Channel 4 software upon restart. To do this, create a shortcut to Channel 4 (Right-click → create shortcut), and place it in `C:\Documents and Settings\All Users\Start Menu\Programs\Startup`.

### 3) Internet Configuration

(This document assumes that a broadband Internet connection is being used.)

Connect the display computer to the Internet by plugging one end of a standard Ethernet cable to your computer's network card, and the other end into your router, switch, or modem.

If the display computer is running a firewall (hardware or software), ports 20 and 21 must be opened. This can be done by accessing your firewall configuration page.

If the display computer is located on a LAN (Local Area Network), the router must be configured for port forwarding. Log on to the router's configuration page, and forward ports 20 and 21 to the private IP of the display computer. (The private IP can be found by opening a command prompt (run → cmd), and typing 'ipconfig').

#### 4) Weather Equipment installation

**Note: If you have not purchased the weather system add on, you may skip this step.**

The only weather station that will work with Channel 4 is the Ultimeter 800, made by Peet Bros.

Follow the installation instructions included with the Ultimeter 800 weather station. Once the weather station has been properly installed, configure the station for *data logging mode*. For instructions on how to do this, consult the weather station user manual.

Connect the weather station to the computer using the RS232 serial data cable included with the weather station. Connect it to the port designated as "COM1".

### Creating a Program

Channel 4 programs are created using Microsoft PowerPoint. These programs may be created on any computer, provided that this computer has both MS PowerPoint and Uploader program installed, and an Internet connection.

**To create a new program**, open a blank PowerPoint presentation. Add a new slide; it is recommended that the user make use of one of the templates included on the installation CD. The user may create as many slides as he/she likes, and may embed pictures, sound, and video files into his/her presentation. It is important to **leave the shaded bar at the bottom of each slide empty**. This is where the time, date, and weather information will be displayed. When finished creating the program, save the PowerPoint file as *C:\current\_presentation.ppt*.

**To edit an existing program**, open the presentation you wish to edit in Microsoft PowerPoint. Remember to save your changes!

If the presentation you wish to update is currently running on the display machine, and a copy has not been saved on the uploading machine, the program must first be downloaded from the display machine. Click on the start menu, and browse to Program files → Uploader and click on *Uploader*. Once the program has started, click the "download current presentation" button. PowerPoint file can be quite large, and file download may take a minute.

Once the file has been downloaded, click the *Open Current Presentation* button. This will open the presentation you just downloaded in Microsoft PowerPoint. Once the necessary changes have been made, save the presentation and close MS PowerPoint.

Next, the new presentation must be uploaded to the display computer.

## **Uploading a Program**

Once you have created your Channel 4 program, it must be uploaded to the display computer. This is done using the *uploader* program.

Select the file you wish to upload, and configure the options you desire. When you click the *upload* button, a dialog box will appear containing 4 fields:

*IP address:* This is the IP address of the display computer. If the display computer is on a LAN, you must enter the Public IP address of the LAN.

*Port Number:* The default value for this field is 21. Leave it at 21, unless the ftp server on the display machine has been configured to listen on a port other than 21. If this is the case, enter the port number on which the ftp server is listening.

*User Name:* This is the FTP user name that was chosen during the ftp server configuration step. If you have purchased a pre-configured system from evsl, your user name can be found on the product invoice.

*Password:* This is the FTP password that was chosen during the FTP server configuration step. If you have purchase a pre-configured system from evsl, your password can be found on the product invoice.

Note that depending on the size of your program, and your Internet connection speed, it may take several minutes for the upload to complete.

Once the file has been uploaded to the display computer, the 'live' program will change within one minute.

## **Support**

Additional information regarding the Channel 4 Community Channel is available on the evsl website:

<http://www.evsl.com>

Questions or comments can also be sent to evsl via email:

[info@evsl.com](mailto:info@evsl.com)

or by telephone:

1-800-717-8865