## How to create your own live streaming web cast (Windows):

Well I decided to post this, as I went through a bit of searching to figure out how to do this. What I wanted to do was broadcast live my own artwork process with various applications to my friends on the Internet. Streaming my own experiences as I work within applications.

So I went trough the process of using a Logitec cam (this failed, you cannot get a good shot of your monitor no matter how hard you try) and searching sites for live-streaming.

| PF PFConfig - Portforward.com   |  |  |
|---|--|--|
| File Tools Help   |  |  |
| Applications  |  |  |
| Default Applications Custom Applications           Application Name           Windows Media Encoder | New Application Settings<br>Name Windows<br>TCP 3650<br>UDP 3650   |  |
| Forwa   | Update Router           We support our product online. If you need any help at all, be sure to click on Help then Request Help to get ahold of us. We do not use email for support. Instead we use an online support system. |  |
| - Forwarded Applications  |  |  |
| Application Name Forwarded To TCP UDP   |  |  |
| Windows Media Encoder This Computer 3650 3650   |  |  |
| DLink - DI-604 3.38-3.52 - 192.168.0.1  |  |  |

So through this process it only cost me for the PFConfig utility from <u>www.portforward.com</u> (because I'm behind a complex router/broadband connection) however a few people who may attempt this may find their router may be a lot easier to open ports.

To get the best quality shot of your screen, you can skip using the latest in high-mega-pixel cams and grab a utility that will capture your monitor signal directly as a cam-source.

I've discovered the free <u>www.Manycam.com</u> works great (if you can handle the watermark) or you can use <u>www.Camtasia.com</u> if you want to spend a few more bucks.

You will also need the Windows Media Encoder Download here: <u>http://www.microsoft.com/downloads/details.aspx?FamilyID=5691ba02-e496-465a-bba9-b2f1182cdf24&displaylang=en</u> Of course I'm using Windows XP (until I upgrade this computer and go to 7)

- 1: Install Manycam.
- 2. Install Windows Media Encoder 9



3. Run Manycam and designate your Desktop as a Virtual Cam source You can choose the area you want masked off as your viewing region.



4. Run Windows Media Encoder and follow the setup wizard.



Ensure the Manycam is the Video Device



Select Broadcast method

| Windows Media Encoder   |  |  |
|---|--|--|
| File View Control Tools Help  |  |  |
| 🛐 New Session 🔗 📙 🔽 Properties 💫 Start Encoding 🚺 Stop 🕕 Pause  |  |  |
| Video   |  |  |
| Zoom: 100% 🕑 Display: Input 🕑 Preview:  |  |  |
| New Session Wizard  |  |  |
| Broadcast Connection<br>Select the port through which players and Windows Media servers can access the<br>stream. |  |  |
| What port do you want to use?   |  |  |
| HTTP port: 3650 Find Free Port  |  |  |
| URL for Internet connections: http://192.168.0.102:3650/  |  |  |
| URL for LAN connections: http://magnatude3d:3650/   |  |  |
| Monitor   |  |  |
| General Statistics Video: Audio: Script:  |  |  |
| Settings:<br>DRM protection: no   |  |  |
| Video optimization: - Percent complete: - Total bit rate: - System  |  |  |
| Expected rps: - Disk space left: 55.79 GB<br>Average fps: - Disk time left: -<br>Total scripts: - CPU load: -     |  |  |
| Create new session.   |  |  |

The default port is 3650, but you can choose a free port, make sure that you assign this port# to be forward on your firewall.

| 📀 Windows Media Encoder  |                                       |  |  |
|--|---------------------------------------|--|--|
| File View Control Tools Help   |                                       |  |  |
| 🛐 New Session 🤌 🔒 📝 Properties 🛛 🔉 Start Encoding 🔘 Stop 🕕 Pause   |                                       |  |  |
| Video  | ×                                     |  |  |
| Zoom: 100% 🗸 Display: Input 🔽 Preview:   | · · · · · · · · · · · · · · · · · · · |  |  |
| New Session Wizard   | X                                     |  |  |
| Encoding Options<br>Select encoding settings for your content. Your selections determ<br>bit rate, frame rate, and buffer size.  | ne settings such as                   |  |  |
| How do you want to encode your audio and video?  |                                       |  |  |
| Video: Multiple bit rates video (CBR)  |                                       |  |  |
| Audio  |                                       |  |  |
|  |                                       |  |  |
|  |                                       |  |  |
| Bit rate: Total Bit Rate Frame Rate Out  | put Size                              |  |  |
| 500 Kbps 29.97 fps 320   | x 240 📃                               |  |  |
| ✓ 300 Kbps 29.97 fps 320   | x 240                                 |  |  |
| Monitor 230 Kbps 23.37 lps 320   | × 240 💌 🛛                             |  |  |
| General Statistics Tip   |                                       |  |  |
| You can adjust settings on the Session Properties panel after you complete   |                                       |  |  |
| Video: -   |                                       |  |  |
| Script:  |                                       |  |  |
|  |                                       |  |  |
| Settings: Kent Settin | h Cancel                              |  |  |
| URM protection: no<br>Video optimization: Percent complete:  |                                       |  |  |
| Total bit rate:  | System                                |  |  |
| Expected fps: Disk space left:   | Disk space left: 55.79 GB             |  |  |
| Total scripts: Disk time left:   |                                       |  |  |
|  |                                       |  |  |
| Create new session.  |                                       |  |  |

Choose a suitable video size (under 500kbps is safe) You can go higher if you feel most of your viewers are on broadband.



5. If you do not see a preview, you will need to forward ports through your firewall

| PFConfig - Portforward.com   |   |  |
|--|---|--|
| File Tools Help  |   |  |
| Applications   |   |  |
| Applications           Default Applications         Custom Applications           Application Name | New Delete Application Settings Name Windows TCP 3650 UDP 3650 UDP 3650 UDP 3650 UDP action line. If you need any help at all, be sure to click on Help then Benuest Help not ext adold of then Benuest Help not ext adold of not use |  |
| For  | ward This App email for support. Instead we use an online support sustem  |  |
|  |   |  |
|  |   |  |
| Application Name   Forwarded To   TCP   UDP  |   |  |
| Windows Media Encoder This Computer 3650 3650  |   |  |
| DLink - DI-604 3.38-3.52 - 192.168.0.1   |   |  |

6. Forwarding ports in PFConfig, the same port as you had designated in the Encoder 9 (my case 3650)

7. Check out your External IP at <u>http://www.portforward.com/guides.htm</u> (also noted in the code.txt) Look on the page for "Your External IP address is: ##.##.##.."

8. Modify the code:

```
<OBJECT id='mediaPlayer1' width="180" height="50"
classid='CLSID:22d6f312-b0f6-11d0-94ab-0080c74c7e95'
codebase='http://activex.microsoft.com/activex/controls/mplayer/en/nsmp2inf.cab#Version=5,1,52,701'
standby='Loading Microsoft Windows Media Player components...' type='application/x-oleobject'>
<param name='fileName' value="YOUR-URL">
<param name='animationatStart' value='true'>
<param name='transparentatStart' value='true'>
<param name='autoStart' value="false">
<param name ="ShowAudioControls"value="true">
<param name="ShowStatusBar" value="true">
<param name='loop' value="false">
<EMBED type='application/x-mplayer2'
pluginspage='http://microsoft.com/windows/mediaplayer/en/download/'
id='mediaPlayer' name='mediaPlayer' displaysize='4' autosize='-1'
bgcolor='darkblue' showcontrols="true" showtracker='-1'
showdisplay='0' showstatusbar='-1' videoborder3d='-1' width="420" height="380"
src="YOUR-URL" autostart="true" designtimesp='5311' loop="false">
</EMBED>
</OBJECT>
```

mms:// 3650

-----

<OBJECT id='mediaPlayer1' width="180" height="50" classid='CLSID:22d6f312-b0f6-11d0-94ab-0080c74c7e95' codebase='http://activex.microsoft.com/activex/controls/mplayer/en/nsmp2inf.cab#Version=5,1,52,701' standby='Loading Microsoft Windows Media Player components...' type='application/x-oleobject'> <param name='fileName' value="mms:// 3650"> <param name='animationatStart' value='true'> <param name='transparentatStart' value='true'> <param name='autoStart' value="false"> <param name='showControls' value="true"> <param name ="ShowAudioControls"value="true"> <param name="ShowStatusBar" value="true"> <param name='loop' value="false"> <EMBED type='application/x-mplayer2' pluginspage='http://microsoft.com/windows/mediaplayer/en/download/" id='mediaPlayer' name='mediaPlayer' displaysize='4' autosize='-1' bgcolor='darkblue' showcontrols="true" showtracker='-1' showdisplay='0' showstatusbar='-1' videoborder3d='-1' width="420" height="380" src="mms:// 3650" autostart="true" designtimesp='5311' loop="false"> </EMBED> </OBJECT>

9. Paste the code into your HTML.

10. Makes sure Manycam is running, Encoder is running with preview working ok, and start your broadcast... check your HTML page to see if you are actually casting.

That's about it...

So when you want to broadcast live, run manycam, the pfconfig (if you need to use this), and run the encoder. Double-check your site to see if your broadcast is getting through.

Hope that helps!

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