



## INSTRUCTION MANUAL

# IPME Series

## Internet Protocol MPEG Encoder – IPClientViewer

Model:	Stock No.	Description
IPCV	2411	Internet Protocol ClientViewer Software

### Accessories:

IPME-SM	2415	Internet Protocol MPEG Encoder - Stream Manager
IPME-CH	2419	Internet Protocol MPEG Encoder Chassis
IPME-2	2420	Internet Protocol MPEG-2 Encoder Module
MPEGLA	2412	MPEG License Authority Royalty Fee



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## Introduction

The Blender Tongue IPClientViewer™ is a custom software application used in conjunction with the Blender Tongue IPME Stream Manager and Encoder modules. It is a MPEG decoder software application that permits the viewing of video & audio data streams on a personal computer.

The IPCV software is designed to automatically communicate with the Blender Tongue IPME Stream Manager in order to download channel and stream data information. An easy to use and intuitive graphical user interface provides a great user experience.

### Program Features

- Easy to Use and Intuitive Graphical User Interface
- Automatic Channel Guide Data Information
- Full Screen Viewing Mode as well as Channel Guide Video Preview

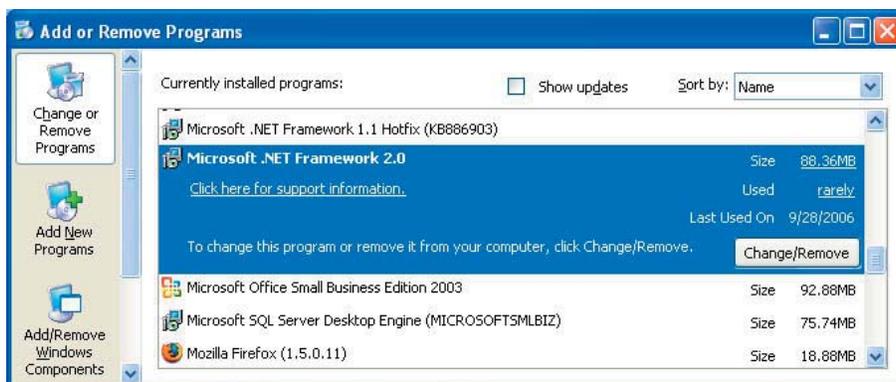
### System Requirements

The Blender Tongue IPClientViewer software is designed to run on the Microsoft® Windows® operating system. The minimum requirements for this application are as follows:

- Microsoft® Windows® 2000 (with Service Pack 4) or Windows XP (with Service Pack 2)
- Intel® 600 MHz processor or higher, or equivalent processor
- 256 MB RAM or higher
- Microsoft .NET framework, Version 2.0
- DirectX® 8.1 or higher
- 300 MB hard disk space (for the IPClientViewer software installation including the Microsoft .NET framework 2.0)
- Network environment that supports IGMP Snooping and IP Multicasting, (Internet Group Messaging Protocol)
- Internet / Network Connectivity (with the Stream Manager)

The Microsoft .NET Framework 2.0 package is required to be installed on the PC prior to the IPCV installation. Usually the .NET Framework is preinstalled with most Windows XP operating systems. The IPCV installation routine will automatically check for the .NET package and prompt a user to install if not found.

## Software Installation



The Microsoft .NET Framework installation can be verified on the PC by accessing Control Panel, Add/Remove Programs. Check the list for the Microsoft .NET Framework 2.0 entry (as shown). If not found it is required to be installed. It is recommended to download the latest version from an approved Microsoft location (<http://www.microsoft.com/downloads> - Search for .NET Framework 2.0). If a connection to the Internet is not available, run the “dotnetfx.exe” application from the IPCV CD to install the .NET Framework.

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1. Insert the BT IPClientViewer CD into your CD-ROM drive.

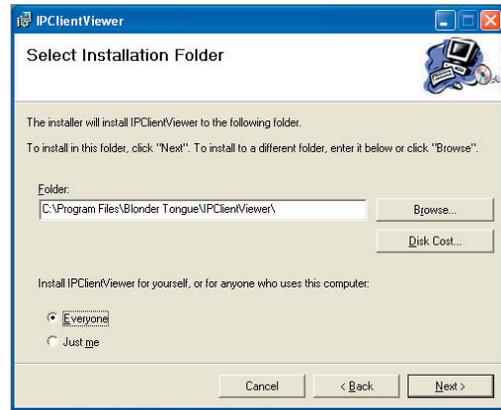
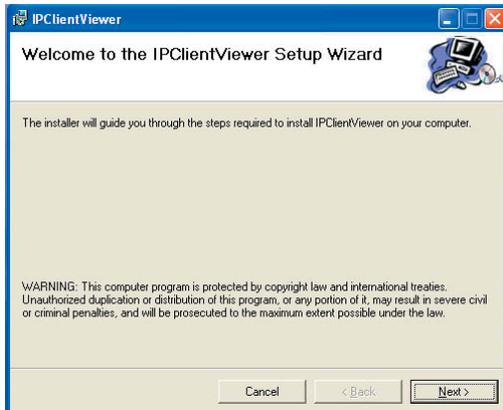
In a few seconds the IPCV installer window will pop up automatically. If the window does not pop up automatically, follow steps 1.1 & 1.2 below to navigate the CD to the Setup.exe file.

1.1. Open the CD-ROM

1.2. Double Click Setup.exe file

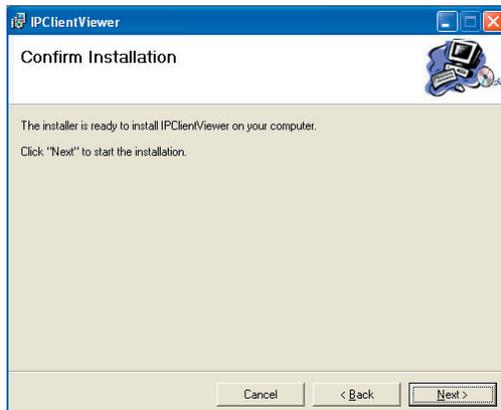
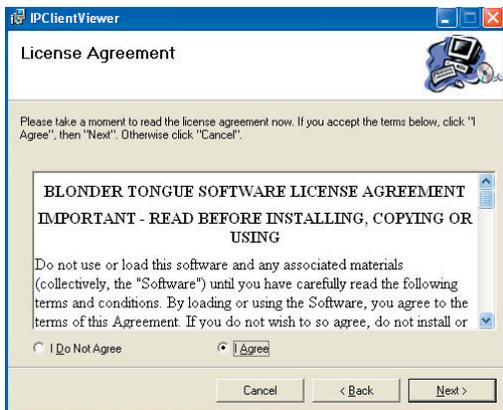
2. Click the Next button on the Welcome Wizard

3. Choose the desired directory for the installation or accept the default as well as select usage level and click Next



4. Read and Accept the Blonder Tongue Software License Agreement – You must accept the license terms to continue the software installation – Click Next

5. Confirm the Installation – Click Next. The IPCV will now install on the PC



6. Click Close to complete the installation

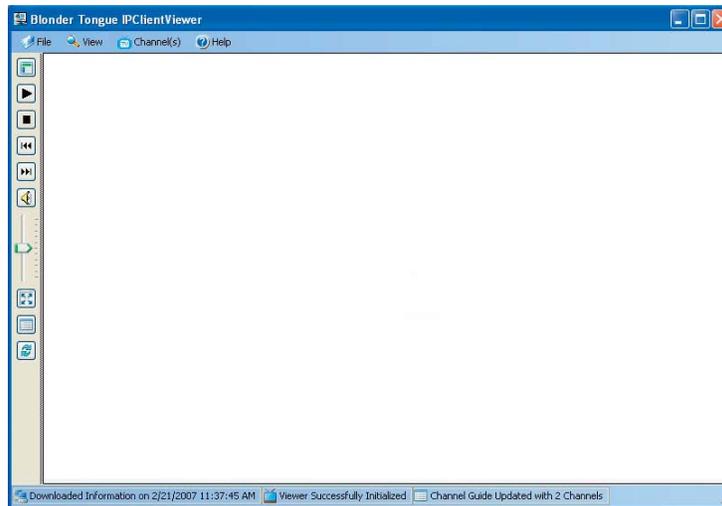
7. The Software will automatically create a shortcut icon  on the computer desktop, double click to launch the IPClientViewer software

## Software Upgrades

If an update to the Blonder Tongue IPClientViewer software is released, it is recommended to first close the IPCV application and un-install the previous version prior to installing the upgraded version. The software can be un-installed by using the Add or Remove Programs tool that is part of the Windows operating system.

## IPClientViewer Software Interface

Use the desktop icon or the Start, Programs menu to launch the IPClientViewer application



### Controls

**Orientation** — Toggles between a vertical and horizontal layout for the controls. The default is vertical layout

**Play** — Plays the current video stream, upon start-up it is set to the first channel in the Channel Guide

**Stop** — Stops the playing of a video stream

**Previous** — Plays the previous video stream in the Channel Guide

**Next** — Plays the next video stream in the Channel Guide

**Mute** — Toggles between muting and un-muting of audio, default is set to un-mute

**Volume Slider** — Controls the audio volume level, default is set to half

**Full Screen** — Converts the video playback to full screen mode

**Refresh** — Requests a download of Stream related information to update the Channel Guide

### Basic Operation

Upon startup, the IPClientViewer requests the IPME Stream Manager for stream information. If the Stream Manager receives the request it sends the stream information in the form of UDP packets (one for each stream) to the IPCV software. The software parses this information and populates its Channel Guide. The IPCV's Channel Guide is automatically updated by notifications received from the Stream Manager when stream related changes occur. A download may also be manually requested by pressing the Refresh button.

### File Menu

**New** — Clears previously loaded settings and loads a new configuration containing default values

**Open** — Presents a dialog that allows the user to browse and key or select a settings file to load a configuration from

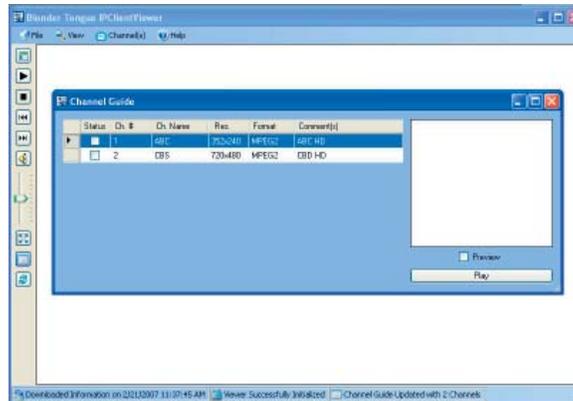
**Save** — Saves current settings to the currently open configuration file

**Save As** — Presents a dialog that allows the user to browse and key or select a settings file to load a configuration to

**Exit** — Shuts down and exits the application

### View Menu

**Channel Guide** — Displays information about each stream detected on the network and allows a preview of the stream.



**Status** — Indicates if the IP video stream is started or stopped

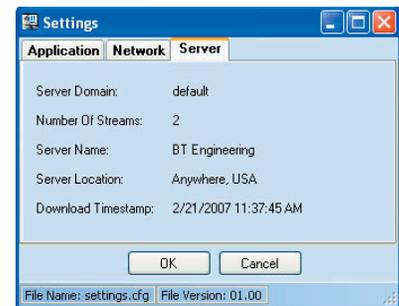
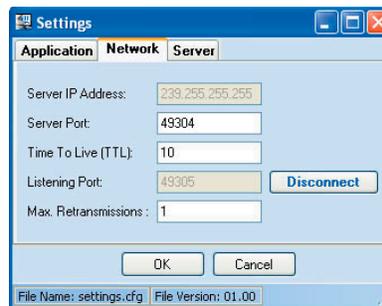
**Ch #** — Indicates the Channel Number for the IP Video Stream

**Ch Name** — Indicates the Channel Name for the IP Video Stream

**Res** — Indicates the video resolution for the IP Video Stream

**Comments** — Provides a brief description of the IP Video Stream as entered in the Stream Manager

**Settings** — Presents the user with a dialog box that displays the current Application, Network and Server settings and permits modification of certain values



## Application Settings Tab

**Stream Domain** — Name of stream domain to join. By joining a stream domain, the IPClientViewer software requests the Stream Manager for channel information for that domain

## Network Settings Tab

Displays the current network settings for the IPCV software to communicate with the Stream Manager

**Server IP Address** — There are three options for the IP Server Address however only option 1 is supported

**Option 1** — Multicast IP Address that the IPME Stream Manager is a member of, for example 239.255.255.255. (Currently this is hard coded as the default type of IP addressing supported by the IPME-SM)

**Option 2** — Broadcast IP address of the VLAN on which the IPME Stream Manager is located, for example xxx.xxx.xxx.255

**Option 3** — Unicast IP Address of the IPME-SM

**Server Port** — TCP Port on the Stream Manager to connect to and send requests. This is presently hard coded for the default value for received packets on the Stream Manager

**Time to Live (TTL)** — Number of hops that an IP packet is permitted to travel before being discarded. At each hop, a network device, like a switch, decrements the TTL value by one

**Listening Port** — TCP Port on the IPCV software application that listens for responses from the Stream Manager containing stream data

**Disconnect Button** — The listening port must be disconnected before it can be changed. Connect to the listening port by pressing this button. At startup this port is connected and is listening



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