

StreamNet[™] Internet Radio

Streaming vTuner[™] Internet Radio to DigiLinX[™]/ VIEW[™] Products

Setup Manual

Kitchen	vTuner-1	
Home Player	Play Now	A/V
Browse		Muto
Favorites	Search	Mute
Recent Launches		
Local Stations	Page	
Stations By Genre	e 🗖	
Stations By Locat	ion	
New Stations	Page	



AVoIP[™]



Introduction

PRODUCT OVERVIEW

The vTuner internet radio tuner for StreamNet provides the leading gateway technology to connect your StreamNet products to the wide world of streamed music.

The vTuner provides the following advantages:

- Internet Media becomes a "Media Server" within StreamNet
- vTuner becomes an integral part of your DigiLinX audio system
- Works with TouchLinX[™] TLA250, SpeakerLinX[™] SL251 and SLX300
- Fully integrates with VIEW for commercial AV distribution systems
- Accesses an extremely broad international media variety and quality
- Provides content-on-demand

vTUNER OPERATION

The vTuner in your StreamNet powered system operates as follows:

- 1. The streaming media device contacts the vTuner login server
- 2. The login server passes the request to one of several database servers
- 3. The database server helps you browse or search the station listings
- 4. The server identifies your chosen station and a connection is established to the media
- 5. The vTuner-enabled streaming media device begins streaming the station feed

SOFTWARE REQUIREMENTS

The software required to install vTuner is the StreamNet Applications Suite SAS 1.09.02 (or higher) which contains StreamNet Dealer Setup and Firmware version 02.80.02.

INSTALLER REQUIREMENTS

This manual assumes the installer:

- Knows how to install StreamNet DigiLinX and/or VIEW system components
- Understands the Dealer Setup Program and how to configure sources.

Installing and Configuring the vTuner

The vTuner is a media source and must be hosted in a TouchLinX TLA250, SpeakerLinX SL251 or SLX300. You can have more than one vTuner source in a system but each must be separately hosted so that each can independently stream audio in the system. The following screen displays show how this hosting configuration can be performed in the Dealer Setup Program.

Only a TLA250, SL251, or SLX300 can host vTuner:



It's best if the entire system is set for DHCP to allow the devices receiving the streaming audio to display station art.

StreamNet Dealer Setup version 02.80.00 - NewProjec	it _ X
V 📚 Project	X
Intercom	System Name: AV Distribution
👸 Skins	System IP Address Range: 169.254.1.0 : 169.254.254.255
Groups	System Subnet Mask: 255.255.0.0
Eavorites	Gateway IP: 0.0.0.0
Static Menus	System Multicast IP: 239.255.16.90
Lockout	ASCII Port: 15000
V System - AV Distribution	System Multicast Port: 5001 Enable DHCP 🗸
V Cher Devices	Auto Discovery Port: 8000
	Default IP Port: 7000
	Multicast IP Range: 239.255.17.1 239.255.48.255
	Multicast Port Range: 5002 : 15000
	TTL: 1 ·
	Debug Multicast Address: 239.255.16.21 Port: 9000
	Apply Options: Apply to Current & New Devices
	Apply Changes Hide Advanced Options
StreamNet	Clear List Find Devices

If the system is all set to enable DHCP then all station art is enabled for devices that can view it. If the entire system does not run with DHCP enabled, then you will need to set the gateway for each TLA250, SL251, or SLX300 hosting vTuner in the device's **Advanced Options** screen.

» Note:The TouchLinX screens must be set to use DHCP To display station art.

💋 StreamNet Dealer Setup version 02.80.00 - NewProject				
File Edit Devices Tools Help About		_		
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Groups	Enable Static IP	0.0.0.0		
🕉 Macros	Enable DHCP	<u>v</u>	_	
📂 Favorites	Network Subnet Mask:	255.255.0.0		
Static Menus	Gateway IP:	192.168.1.1	$ \longrightarrow $	
Dockout	System Multicast IP:	239.255.16.9	0	
Kitchen TL (1921681.85)	ASCII Port:	15000	Any changes you make to	
V So Other Devices	System Multicast Port:	5001	the settin	gs on this lay seriously
	System Admin Port:	5000	damage	the DigiLinX
	Auto Discovery Port:	8000	system's	ability to
	Default IP Port:	7000	function p	properly.
	Auto IP Address Range:	169.254.1.0	: 16	9.254.254.255
	Multicast IP Range:	239.255.17.1	: 23	9.255.48.255
	Multicast Port Range:	5002 : 1	15000	
	TTL:	1		•
	Debug Multicast Address:	239.255.16.2	1	Port: 9000
	(Hide Advanced Options)			
	Apply			Cancel
Stream Net"		Clear List	Fi	nd Devices

On the Stream tab select vTuner from the Media Server drop-down.



Below is a configured TLA250 set up for vTuner.

» Note that if a TLA250, SL251, or SLX300 is going to host a vTuner it cannot host (Proxy) a stream from a Media Server or from its Local Source (Audio Port/BluePort).



To put in Presets, those stations that will be accessed by a single button on the GUI, you enter the stream URL in the box above assigning it to a Preset ID.

» Note: You can enter the URL by manually tuning to the station and seeing it on the GUI, or just navigate to vTuner or any streaming audio source in a browser and copy/ paste the URL in here.

When the **Show Advanced Options** button is clicked the **Media Port**, **Control Port** and **Directory Server Port** are displayed. Leave these at the vTuner defaults. Clicking the **Hide Advanced Options** button will hide these defaults.

🍰 StreamNet Dealer Setup version 02.80.00 - NewPro	ject			
File Edit Devices Tools Help About				
)		😥 ir 🤇	
Project Seatures		nfo	Audio Audi	o Port Stream User Interface IR X
Intercom			Stream Na	ame: vTuner-1
👸 Skins			Service T	ype: audio/source
🚑 🖉 Groups			Media Se	rver: VTuner
Macros			Enable Ser	vice 🗸
Favorites			Media F	Port: vtuner
Static Menus			Control I	Port: vtuner
System - AV Distribution		Di	rectory Server I	Port: vtuner
Kitchen TL (192.168.1.150)				
🔻 🍉 Other Devices			Configure vTu	uner Portal
			Disetas	
			Display	Station URL
		1	KOOP	http://streaming.koop.org:8508
		2	KLBJ AM	nttp://2183.live.streamtneworld.com:
		3	Preset 3	
		5	Preset 5	
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	9	Hide	e Advanced Optio	ins
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StreamNet	8			Clear List Find Devices

A Portal Access is a useful tool for the installer using the Dealer Setup to access the vTuner Servers that will contain the information about the individual vTuners in the StreamNet installation. The dealer can use this to setup and maintain favorites listings and other features.

An Access code is generated by the setup for vTuner for the device upon which it is hosted. This access code is used in the portal. One way to find the code number you need to manage vTuner from the Web Portal is by clicking on the **Configure vTuner Portal** button on the **Stream** tab.



The description in the picture below describes how you can manage multiple vTuners individually or tie them all together so they all share the same Favorites list.

StreamNet Dealer Setup version 02.80.00 - No File Edit Devices Tools Help About	ewProject		
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vTuner Portal	Configurati	on	X
To configure this device to take advanta grab the access code below and click th On the page that loads, enter the access reason the access code isn't visible belo grabbed by selecting the stream source and navigate down until you see "Get ac	nge of the features available the "Sign Up" button. On the s code below into the field ur ow, make sure your device is as a source via a GUI some ccess code."	on the vTuner portal, you'll nee vTuner portal, click "Register I nder "Access code." If for som s online. This code can also be where, then go to the browse s	ed to here." le creen
After you enter the access code, enter a like all your devices in this system to sh the same favorites, then use the same u	n email address and passwo are the same vTuner accour sername/password for each	ord for your vTuner account. If ht, thereby allowing them to all account you set up.	'you'd share
Access Code: 27542513			
Sign Up			
			Close
ŞtreamNet"	0	Clear List	Find Devices

Click on the **Sign Up** button to launch a browser to take you to a sign up screen. You don't need to do this from Dealer Setup.

You can get here from any browser by going to http://netstreams.vtuner.com.

Click on the **Register here** link to initially set up your account.



Put that previous Access Code in here. Create an account using an E-mail (Username) and Password. Do this for all vTuners in the installation. If you use the same E-mail and Password for each vTuner you can link all their Favorites together. If each one requires its own Portal/Favorites then use a different username (email) and Password for each Access Code for each device.

1 Please enter the Acce	ess code for your Media Player (Please refer to your Media Player instruction manual to find your Access
code):	
Access code:	
27542513	
2. Type in your Email Ad	dress, then enter in your Password twice to verify accuracy, click the register link to continue.
2. Type in your Email Ad	dress, then enter in your Password twice to verify accuracy, click the register link to continue.
2. Type in your Email Ad Please keep track of you	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account.
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2. Type in your Email Ad Please keep track of you E-Mail Address:	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account.
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account.
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must he at le	dress, then enter in your Password twice to verify accuracy, click the register link to continue. In password since it will be used every time you log in to your account.
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must be at le	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account. Past 6 characters
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must be at le	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account. Past 6 characters
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must be at le Enter Password Again:	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account. ast 6 characters
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must be at le Enter Password Again:	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account. ast 6 characters
2. Type in your Email Ad Please keep track of you E-Mail Address: Email@clearone.com Password: Must be at le Enter Password Again:	dress, then enter in your Password twice to verify accuracy, click the register link to continue. Ir password since it will be used every time you log in to your account.

This is what is seen after registering on the portal site. Here is where you manage Favorites which, if you use the same Username/Password for all vTuners, will be for all of them.

:: <u>Home</u> Language: 💥 📲 🎫 🚺 🗕	• 💳 📀	:: <u>My Preferences</u> :: <u>Help</u>
NETSTREAMS The	Power of AV ov	ver IP
		→ Logout
ci ci		STATUS 12885 Stations Available New Stations
My Favourite Groups		
My Added Stations You can add your own stations here. If you have found a station that is not in our	list, you can add it yourself. 🏼 🍎	
Search		
Stations C Pode	asts	
Browse by Format, Location or Language	• <u> </u>	
Browse Stations by Format	Browse Stations by Location	Browse Stations by Language
Browse P	odcasts by Format Browse Podcast	s by Location
Music		
Alternative (457) Ambient (117) Big Band (28)	Folk (192) Gospel (119) Hard Rock (144)	Show Tunes (2) Smooth Jazz (87) Soft Rock (160)
Bluegrass (22)	Hip Hop (289)	Soundtracks (47)

After vTuner is configured and selected as a streaming source for your host device, here's what you see initially while it connects to the Internet.

Kitchen	vTuner-1)
Home Sources Setting	s MultiRm Browse	A/V
Refre	shing	Mute
Play	/list	
	dd brite More	

If you have set up Presets in Dealer Setup, then this is the next screen you see with the Presets in place.



Selecting a preset stream will automatically start streaming the audio. Here's what you see while the stream is opening:



Here's the Stream playing. Press the **Add Favorite** button to add this station to your Favorites. This can also be done if the station being played is not a preset, but was selected by browsing.

Kitchen	vTuner-1	
song: KLBJ 590 AM		A/V
Artist: Austin TX	NEWS RADIO	Mute
	590 AM	
URL: http://2183.live.streamth	eworld.com:80/KLBJAMCMP3	
E Fave	dd orite	

Click/Tap anywhere in the middle of the GUI to get this screen where at the top you can change **Locations**, **Sources**, or use the **Browse** option to change stations.



Pressing **Browse** takes you here. This is very much like the GUI for the other DigiLinX supported media servers. These Favorites can be added from a TL/GUI or managed from the web portal.



Pressing the **Page Down** button until you get to the bottom gives you an entry to the **Get access code**.



This is what you enter in to register on the web portal so you don't need to get this from Dealer Setup as shown.



From the **Browse** menu, or by selecting this vTuner **Source** when it had no Presets programmed, or if in the Presets screen by pressing **MORE** you would arrive at this screen presenting another way to add a Favorite.

If the station playing is already a Favorite, the option would display **Remove Favorite**.



By pushing the **SEARCH** button on the previous screen, you arrive at a screen to enter search terms to conduct a search on the vTuner server. If you typed **KLB** and pressed **Enter**, you would find KLBJ AM & KLBJ FM from all the possible stations you could select.





The Power of AV over IP™

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