Transcoding and Streaming using VLC, for Sensoray Model 811 / 911

1) Launch VLC



2) Media | Open Capture Device

)pen Media		?
🗎 File 🛛 🞯 Disc 🛛 🚏 Network	E Capture Device	
apture mode	DirectShow	*
Device Selection		_
Video device name Refresh list	Configure Sensoray 811 BDA Analog Capture	~
Audio device name Refresh list	Configure Default	~
Options		
Video size	640×480	
	Advanced opti	ons

Video device name:Sensoray 811 BDA Analog Capture, #1, #2, #3Video size:640x480Start preview:Play

3) Media | Streaming

📤 Open Media	? 🗙
Eile ODisc Treework Capture Device	
File Selection	
You can select local files with the following list and buttons.	
Add Delete	
Use a sub <u>t</u> itles file	
Browse	
Size: Normal 🕥 Alignment: Center 🕥	
Show more options	
Stream Can	icel

4) Tab: Confirm:

Capture Device "Sensoray 811 BDA Analog Capture" + "640x480"

📥 Open M	edia					?	$\mathbf{\times}$
Eile	Disc	Network	📰 Captur	e <u>D</u> evice			
Capture n	node		Dire	ectShow		*	
Device :	5election						
Video d	evice name [Refresh list	Configure	Sensora	y 811 BDA Analog Capture	~	
Audio d	evice name [Refresh list	Configure	Defa	ult	~	
Video si	ze		64	Dx480	Advanced optic	ns)
Show m	ore options				🔹 🛐	ancel	

5) Click button: Stream

📤 Stream Output	? 🛛
Source	
This dialog will allow you to stream or convert your media for use locally, on your private network, or on the Internet. You should start by checking that source matches what you want your input to be and then press the "Next" button to continue.	
Source	
Source: dshow://	
Type: dshow	
Destinations	Vext
Options	
	⊆ancel

Click "Next "

6) Recording with compression by VLC transcoding:

📤 Stream Output		2 🔀
Source Destinations Destinations		
Add destinations following the streaming the method used.	methods you need. Be sure to check with transcoding th	nat the format is compatible with
New destination	File	Add
Display locally		
Activate Transcoding Profile	Video - H.264 + AAC (TS)	
Previous		Next
options		Stream Cancel

A) Destination:File "Add":Filename (by Browse and given)Transcoding Profile:Choose from H.264 (TS), OGG, MP4, MPG, ASF, etc

Stream Outp	ut		? 🛽
iource			
estinations			
Destinations			
File			×
This module	writes the transcoded stream to	a file.	
Filename	C:\Projects\811\Test\test.mov	/	Browse
Profile		Video - H.264 + AAC (TS)	× 🕅 🕅
Previous			Next
options			
			Stream Cancel

B) Next

🛓 Stream Output 📀	×
Source	
Destinations	
Options	
- Miscellaneous Options	
Stream all elementary streams	
Group name	
Time-To-Live (TTL)	
Generated stream output string	
:sout=#transcode{vcodec=mp4v,vb=800,scale=1,acodec=mp4a,ab=128,channels=2,samplerate=44100}:std{access=file,mux=m p4,dst=C:\\Projects\\811\\test.mp4} :sout-all	
Previous	

Select: all Miscellaneous Options

C) Click: "Stream", to start Transcording and Recording Click: Stop (when finish recording needed)

7) Streaming:

Ignore 6) Recording with transcoding, and from

Stream Output	
Source	
Destinations	
Destinations Add destinations following the stream	ning methods you need. Be sure to check with transcoding that the format is compatible with
the method used. New destination	File Add
Display locally	
Profile	Video - H.264 + AAC (TS)
Previous	Next
Options	
	<u>Stream</u>

in New destination:

UDP / RTP, then click "Add"

📥 Stream Ou	tput		? 🚺
Source			
Destinations			
Destinations	5		
	UDP		×
	L		
This mode	ule outputs the transcoded stream to a netwo	ork via UDP.	
Address	10,140.5.19		
Port	8000 😂		
Transcoding	unptions.		
Activate	e Transcoding		
Drofile		Video - MDEC 4 - AAC (MD4)	
FIONE		Mileo Mileo Mileo Mileo Marca (Mileo)	
<u> </u>			
Previous			Next
Options			
			<u>S</u> tream <u>C</u> ancel

Destinations:	Address:	10.140.5.19	
	Port:	8000	

Activate Transcoding Profile: Video - MPEG-4 + AAC (MP4)

8) Next

🛓 Stream Output	×
Source	
Destinations	
Options	
Miscellaneous Options	
✓ Stream all elementary streams ✓ Keep stream output open	
Group name	
Time-To-Live (TTL)	
Generated stream output string	
<pre>:sout=#transcode{vcodec=mp4v,vb=800,scale=1,acodec=mp4a,ab=128,channels=2,samplerate=44100}:std{access=udp,mux= mp4,dst=10.140.5.19:8000} :sout-all :sout-keep</pre>	
)

all Miscellaneous Options Check: TTL to 3 Increase:

9) Click "Stream", to start Streaming

🛓 Streaming - VLC media player 📃 🗖 🛽							
<u>M</u> edia	Playback	<u>A</u> udio	<u>V</u> ideo	Tools	Vįew	Help	
44							- DD
	944				(ال	20096	
Streami	ing			1.00	0x 65	5:11:19/	

Note: CPU usage: ~ 28 % on a demo PC, Dell Vostro 420 (Intel Core2 Quad CPU, Q8200 @ 2.33GHz)

10) On Receiving PC:

A) Launch VLC

B) Media | Open Network Stream

📤 Open Media	? 🔀
Eile ODisc Thetwork Capture Device	
Protocol Address	Port
	7000 🗢
	Cancel

Select:UDP / RTP (you set on streaming source PC)Enter:{Address, and } Port #

C) Click "Play", to view the stream

Written by:

Charlie X. Liu

Dept of Engineering Sensoray Company, Inc.

7313 SW Tech Center Drive Tigard, OR 97223, USA

http://www.sensoray.com