

BROADCAST FROM ANDROID MOBILES

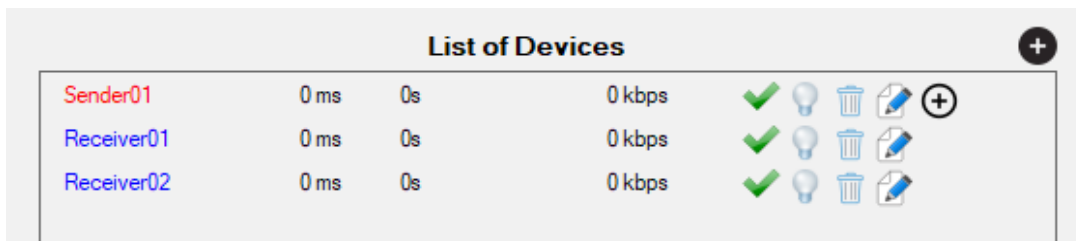
Requirements

- Android 4.1+ mobile with a camera. (recommended 4.3+ for simultaneous recording)
- SmartSRT Cam App (install from Google Play Store <https://play.google.com/store/apps/details?id=com.todostreaming.smartsrtcam>)
- SmartSRT Control Software for Windows (read Step by Step manuals)

Procedure

1.- Firstly, we will create the contribution network so we could receive the video sent by the mobile in our studio.

For those following the instructions in the Step by Step Manuals, we create a network this way:



List of Devices				
Sender01	0 ms	0s	0 kbps	✓ ⚡ 🗑️ 📝 +
Receiver01	0 ms	0s	0 kbps	✓ ⚡ 🗑️ 📝
Receiver02	0 ms	0s	0 kbps	✓ ⚡ 🗑️ 📝

Sender01 is the sender/encoder that is our Android mobile.

Receiver01 is the receiver/player that is our studio SRT receiver/player.

2.- Let's configure an RPi as a Player.

Following the instructions in the Step by Step manual, click over **Receiver01**, to copy the Streaming URL in the clipboard and paste it in the RPi Player, in the Player tab.

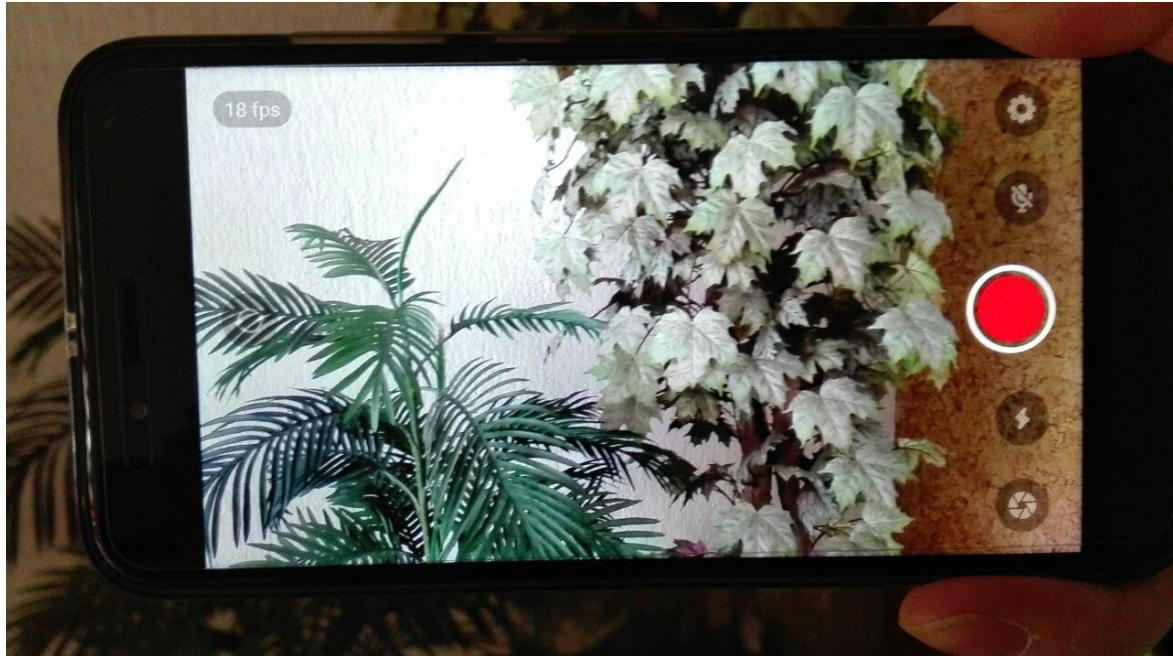
Downloader:	<input type="text" value="none"/>
Streaming URL:	<input type="text" value="smart [redacted] /0"/>
Raw URL:	<input type="text" value="yes"/>
RTSP Transport:	<input type="text" value="TCP"/>
Playback Buffer (ms):	<input type="text" value="500"/>

Click on **Save** and then **Play**, it will start to listen the SRT stream indefinitely.

3.- Configure the mobile app (**SmartSRT Cam**)



Click over the App icon and the camera will open with all controls.



Controls on the right, from top to down:

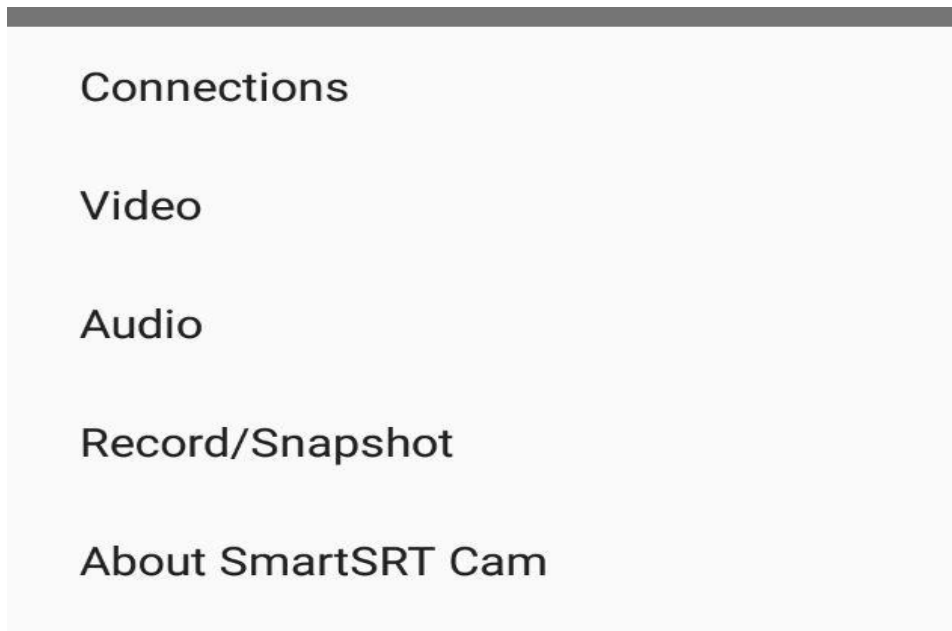
- Settings (gearwheel icon)
- Mute for micro (slashed micro)
- **Record** button (red circle)
- Flash button (thunder icon)
- Image capture button (diaphragm icon)

On the left an alone icon, to select from front or rear camera, as video sources.

Although the diaphragm and light conditions change the captured fps value, compression and sending is done at the framerate set by default in the Video settings.

Before broadcasting, we have to configure the Smart URL of the sender, which can be copied clicking on the **Sender01** label in the SmartSRT Control.

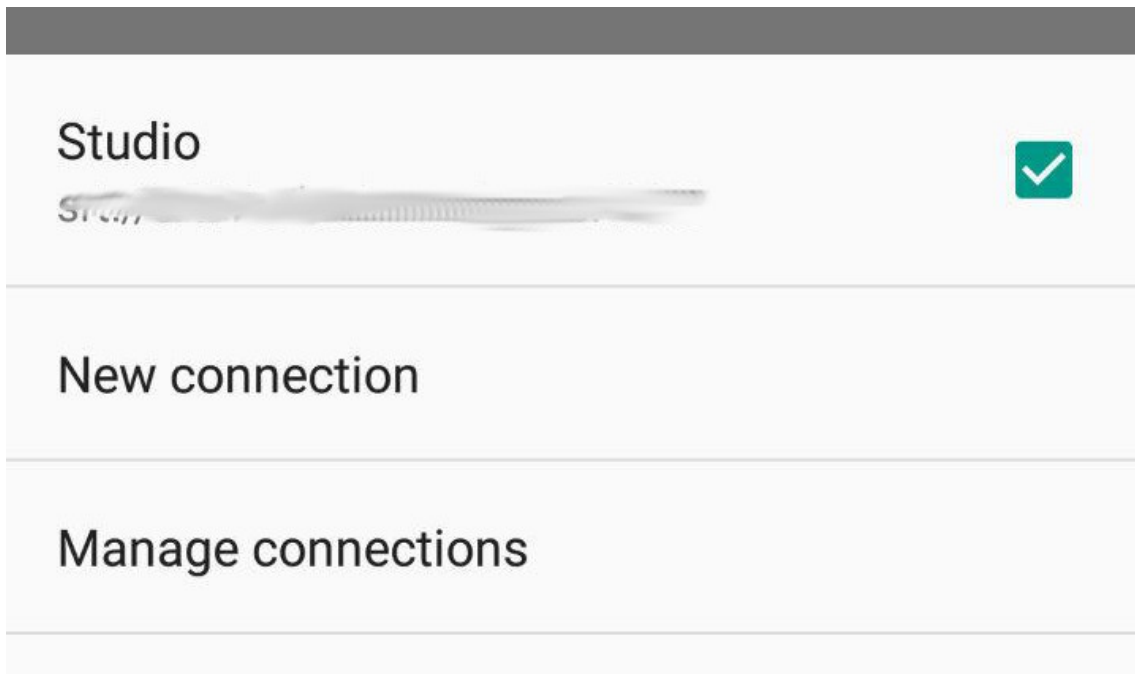
Click on the gear icon to go to the Settings menu.



Click on Connections and then on New Connection.

A screenshot of the "New connection" form. It has a dark grey header bar with the title "New connection" in bold. Below the header, there are three input fields: "Name", "Smart URL", and "Mode". The "Mode" field is a dropdown menu currently showing "Audio + Video" with a downward arrow. At the bottom of the form is a large grey button labeled "SAVE".

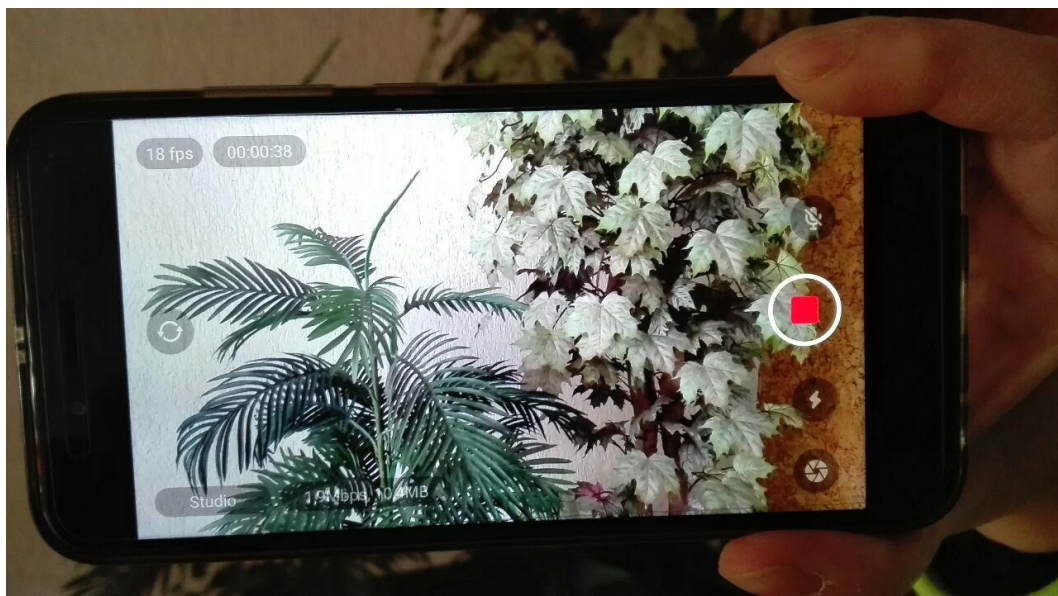
Fill name with any descriptive name (i.e Studio)
Paste the Smart URL copied from the SmartSRT Control
Click on **Save**.



To be able to broadcast the that URL, it must appear a checked box on the right of the stream name.

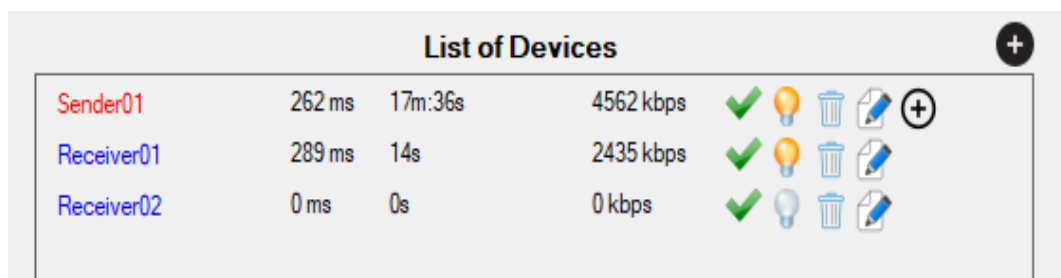
By default, the App is setup to broadcast at 2000 kbps video + 128 kbps audio, with an SDTV panoramic resolution. You can change those values in the corresponding menus. However, give an chance to the default values, since they are optimized.

Exit from settings until you can see the camera imagen. We can start broadcasting and recording at them same time. Click on the **Record** button . If connection is stablished, you will see a label with time running, and the **Record** button will change shape from round to squared.



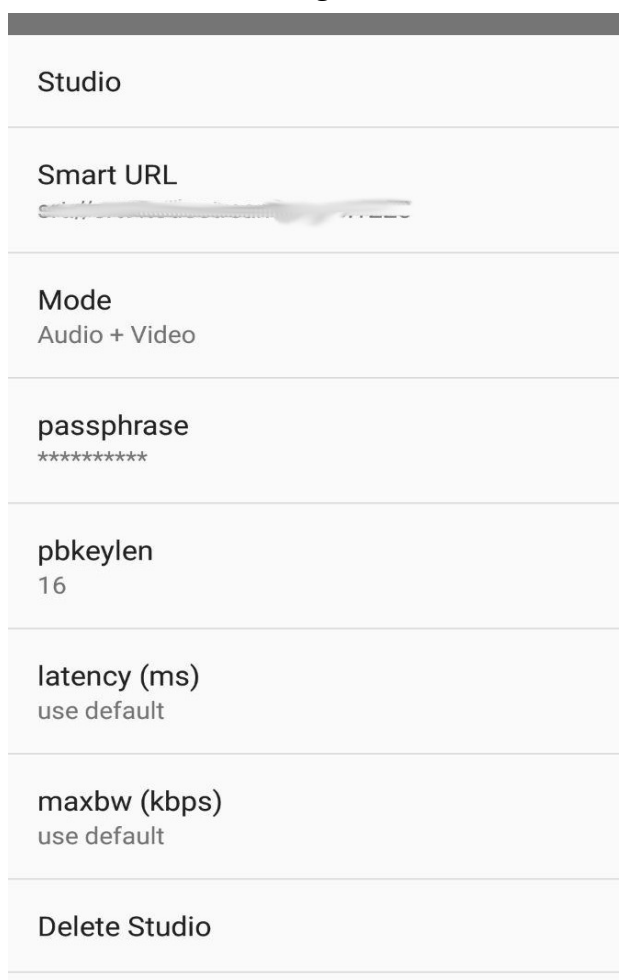
Bellow appears the transmission speed and the amount of data sent in MB.

In the Studio, the RPi device will connect immediately to receive the broadcast from the mobile. Latency will be very low, if conditions allows it.



List of Devices						
Sender01	262 ms	17m:36s	4562 kbps	✓	💡	🗑️
Receiver01	289 ms	14s	2435 kbps	✓	💡	🗑️
Receiver02	0 ms	0s	0 kbps	✓	💡	🗑️

In the SmartSRT Control panel, you can see the recommended latency for the mobile connection (above is 262 ms). By default, it is set to 120 ms, but if the conditions are worse, you can raise it up to the value you consider appropriate. This is done in the Connections menu, Manage Connections and then we select the connection to configure.



Studio

Smart URL
[Redacted]

Mode
Audio + Video

passphrase

pbkeylen
16

latency (ms)
use default

maxbw (kbps)
use default

Delete Studio

On this page, you can only change latency (in ms), cos the rest of values are fixed by the app according the SmarSRT server directives. So don't change **passphrase** nor **pbkeylen**, if you don't want to lose your connection.