



# SETUP GUIDE

## PT 1: PREP

Written by Eggics

Revision 1 | April 19th, 2025



**THIS WORK IS COPYRIGHTED**  
UNAUTHORIZED SHARING OF THIS PDF  
WILL RESULT IN A  
**DMCA TAKEDOWN**

# Congrats!

You have gotten an i2jr, or gotten the img file.

Either way, don't just let it sit to rot, lets make it work just like it did in a headend.

This PDF is part one in a series dedicated to setting up the i2JR

**NOTE:** This PDF is for the i2jr STOCK IMG FILE

**\*\*MODIFIED IMG FILES ARE NOT TO BE TRUSTED AS THEY MAY CONTAIN  
MALWARE. PROCEED AT YOUR OWN RISK.\*\***

With that out of the way, lets get flashing!

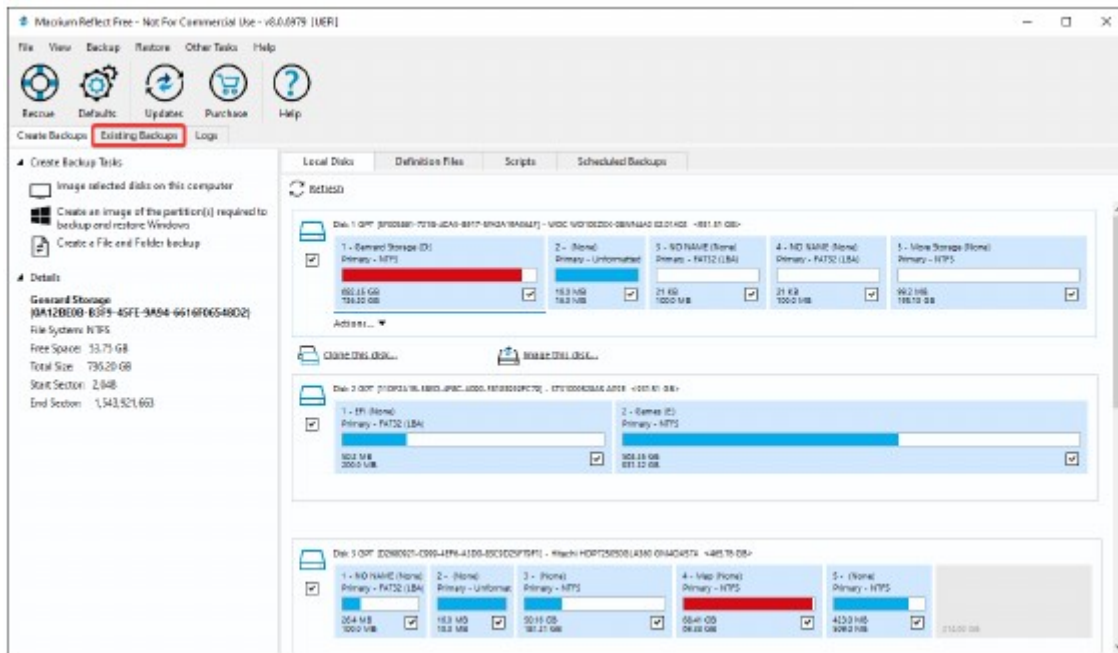
## Here's what you'll need

- Depending on your img file, you will need a drive thats around 500gb.
- A Nvidia GPU. A GT1030 works fine, anything below may have issues
- At LEAST 8GB of ram. You may have freezes, but those are rare
- an Intel core I5 2<sup>nd</sup> gen+ (or AMD) equivalent
- USB 2.0 Ports available
- Drivers for your gpu & ethernet on an external storage medium (I recommend getting firefox & obs exe files on there too as you will need them)
- [Macruim reflect 7/free](#)

**WARNING: DO NOT PLUG IN ETHERNET  
TILL YOU HAVE REMOVED ZABBIX**

# Flashing the img

Once you have installed Macrium Reflect, open it then go to the “Existing Backups” tab.



Now, click the “Browse for existing image file” button and select your img file  
(it will be in a .mrimg format)

now just select “Restore” and choose the drive you want to flash.

Flashing takes about 20 minutes to 2 hours, when your done plug the drive into the pc  
you want to use.

**WARNING: Do NOT turn off your PC or remove ANY drives during the flashing process**

# **DATA LOSS CAN OCCUR**

And with that note, we come to an end to the Prep phase. Follow the next PDF in this series on the First boot EVER of your IntelliSTAR system



# SETUP GUIDE

## PT 2: FIRST BOOT

Written by Eggics

Revision 1 | April 19th, 2025



**THIS WORK IS COPYRIGHTED**  
UNAUTHORIZED SHARING OF THIS PDF  
WILL RESULT IN A  
**DMCA TAKEDOWN**

# Welcome [back]!

If you are reading this, it means you have flashed the i2jr img to a device! Or you already have a JR and want to set it up. This PDF is Part 2 of a series about setting up the i2JR

With that out of the way, lets get to the **FUN** part of installing drivers, apps, deleting stuff, and making your i2 YOURS.

Keep this in mind:

- The accounts you will need is i2Admin and i2Dev
  - The password to i2Admin is cH@rli3!

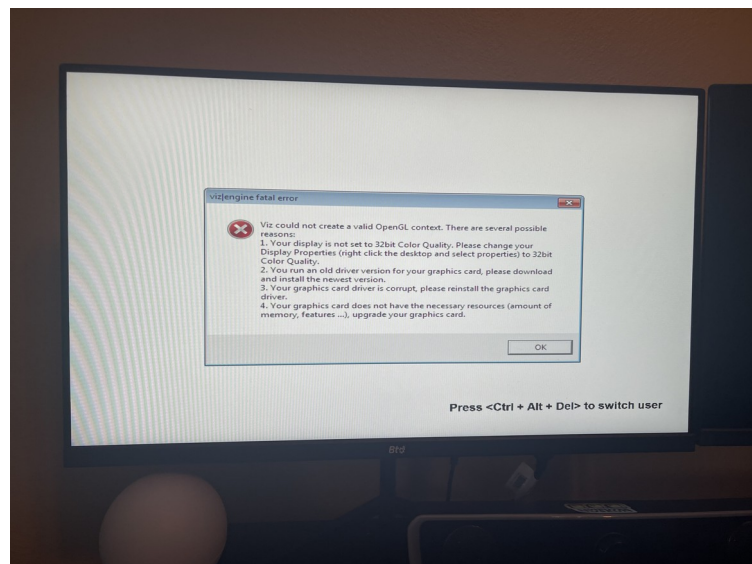
Both accounts have admin privileges, but you will need the admin one to get on the web panel.

## Turning it on

First boot will take some time. Let it rest for around 20 minutes.

If it bluescreens, do not fear. Turn off UEFI boot and switch it to ANCI / Legacy boot.

Once it finally boots. You will be greeted with a screen like this:



*photo by BBCSPCPortlandEAS*

Congrats! Its your very first Viz|engine error. Get ready to see this many..many times...

This error is easy to fix, so don't worry.

Hit control+alt+delete to switch users and sign into i2Admin.

After signing in, go to C:\Program Files\zabbix. Delete zabbix. If an error occurs, task  
manager > services >

search zabbix > stop zabbix agent.

Congrats! You deleted the TWC Spyware tool. **It is now safe to connect your i2jr to the internet.**

## **Installing Drivers**

**(i2jr physical owners can skip this)**

Remember those USB sticks with drivers and apps we made? Nows the time to use it!  
Make sure to plug it into the USB 2.0 port! And install away!

## **Setting up the web panel**

Now its time to make everything easier for you!

Go to control panel on the i2Admin account > user accounts > change the i2admin  
account password.

**WARNING: DO NOT REMOVE THE PASSWORD TO ANY USER.  
THE WEB PANEL WILL BREAK**

I recommend it something easy, like "Weather" or "STAR". Don't go crazy, as you will  
need this every time you want/need to access the web panel.

Then go to > manage another account > i2Dev.

I recommend it something easy, like "Weather" or "STAR". Don't go crazy, as you will  
need this every time you turn on your i2

Now, go to internet explorer. You will be prompted to enter a username/password. Enter  
the  
following:

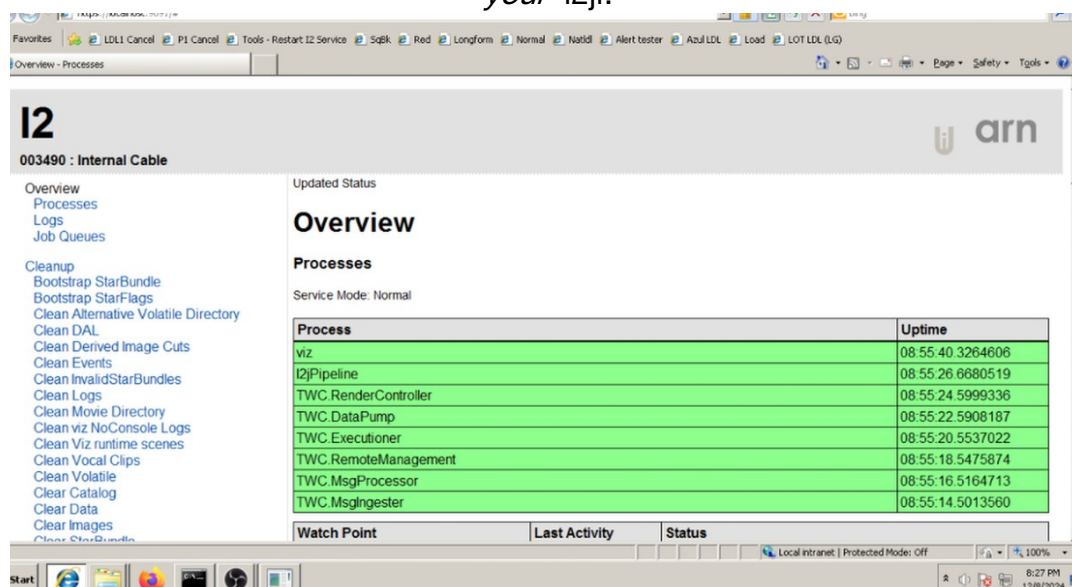
**i2Admin**  
**[your password]**

Don't forget to hit "Remember My Credentials". You will still need to enter your password, but no username.

## Welcome to the Web Panel!

The only thing you will be doing here is making sure everything is working and cuing things.

Speaking of making sure everything is working, lets make sure everything is working on *your* i2jr.



Your i2 web panel should look something like this, minus the logos and the headend name. That's from your MPC (Machine Product Config. We'll deal with that later)

If everything is green, that's amazing! If not, contact ARN Star Support at [starsupport@arntv.one](mailto:starsupport@arntv.one) OR go to the [Weather Ranch Server](#) and go to #Intellistar-2 for support from other people.

**REMEMBER: Never let ANYONE remote into your i2 unless you FULLY TRUST THEM.**

Once your done checking to see if everything is okay, sign out of i2admin.

This ends this PDF on your first boot. Please go to the next one about setting up Pipeline to continue





# SETUP GUIDE

## PT 3: PIPELINE

Written by Eggics

Revision 1 | April 19th, 2025



**THIS WORK IS COPYRIGHTED**  
UNAUTHORIZED SHARING OF THIS PDF  
WILL RESULT IN A  
**DMCA TAKEDOWN**

# Welcome [back]!

This PDF is for **all** i2jr systems

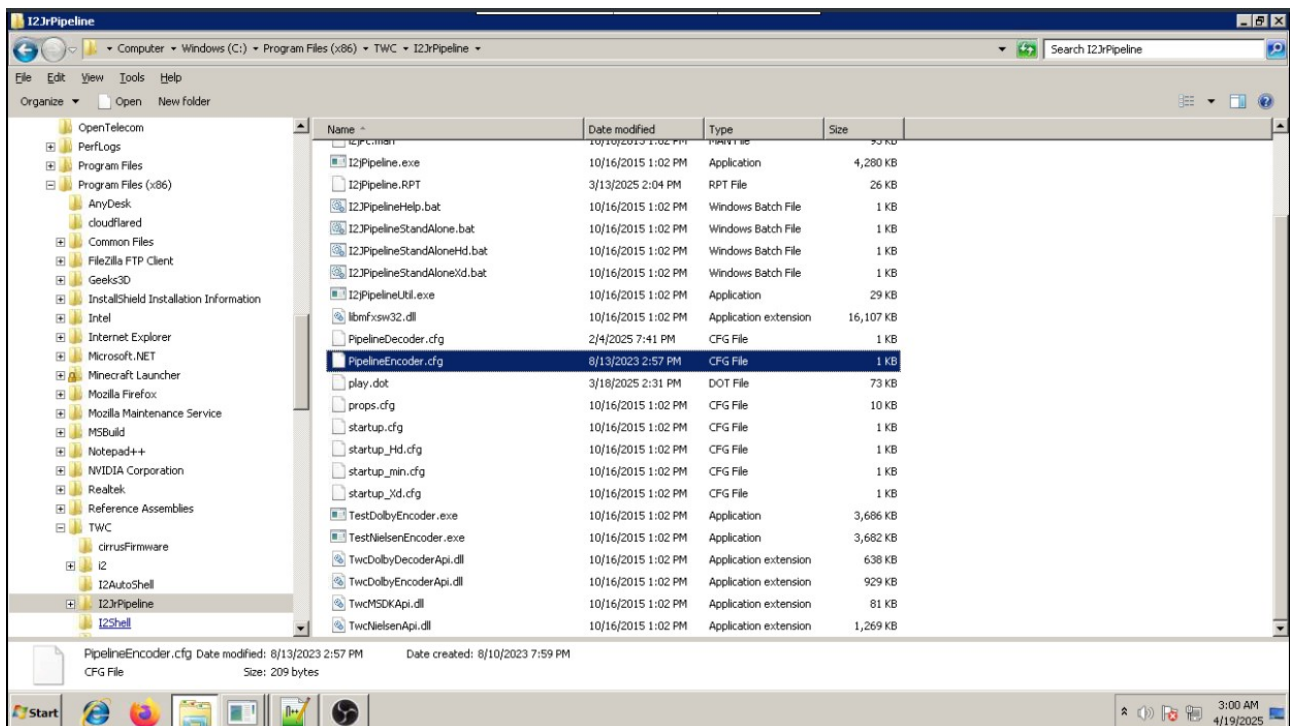
This one is all about Pipeline

Lets jump in, shall we?

Sign into i2Dev (we will be using this from now on) with the password you made.

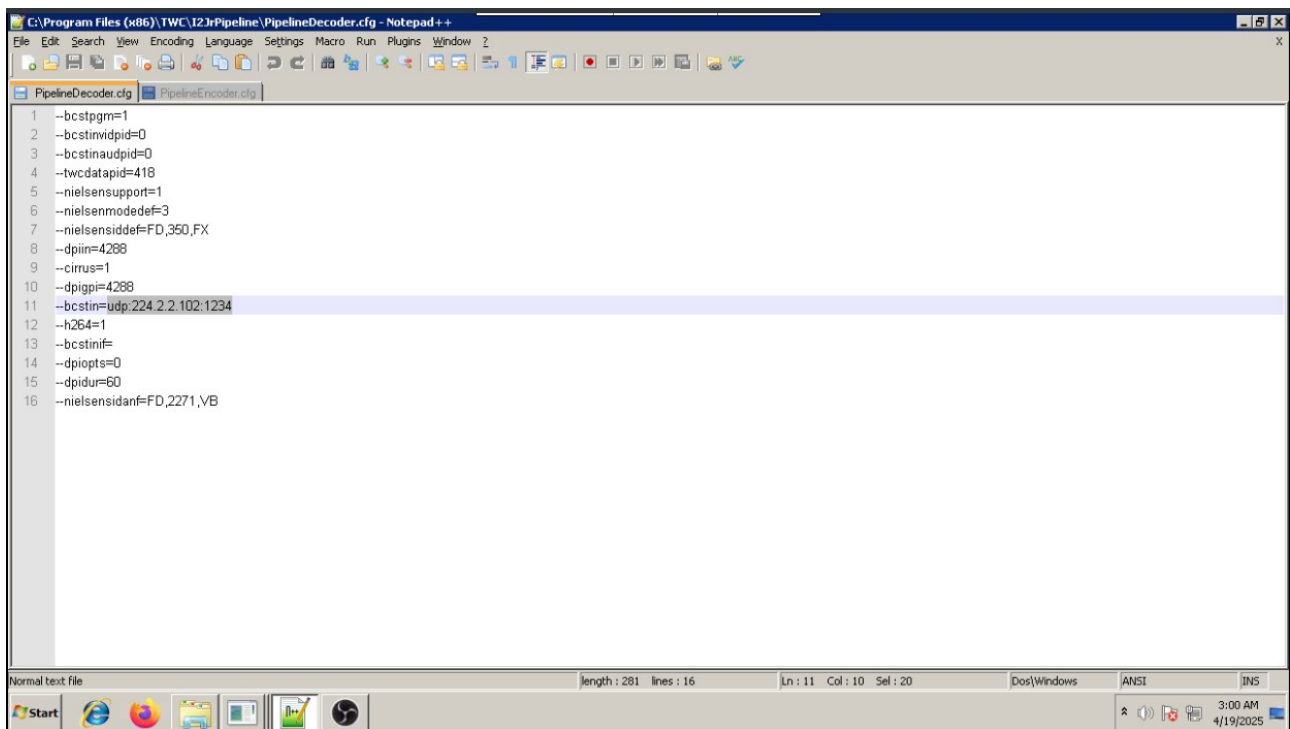
Then plug in the usb stick you made that has obs and firefox (or just install them via IE).

Then once installed, open up file explorer and go to “C:\Program Files (x86)\TWC\I2JrPipeline” and open “pipeline encoder.cfg”



Right click it, and open it in notepad++

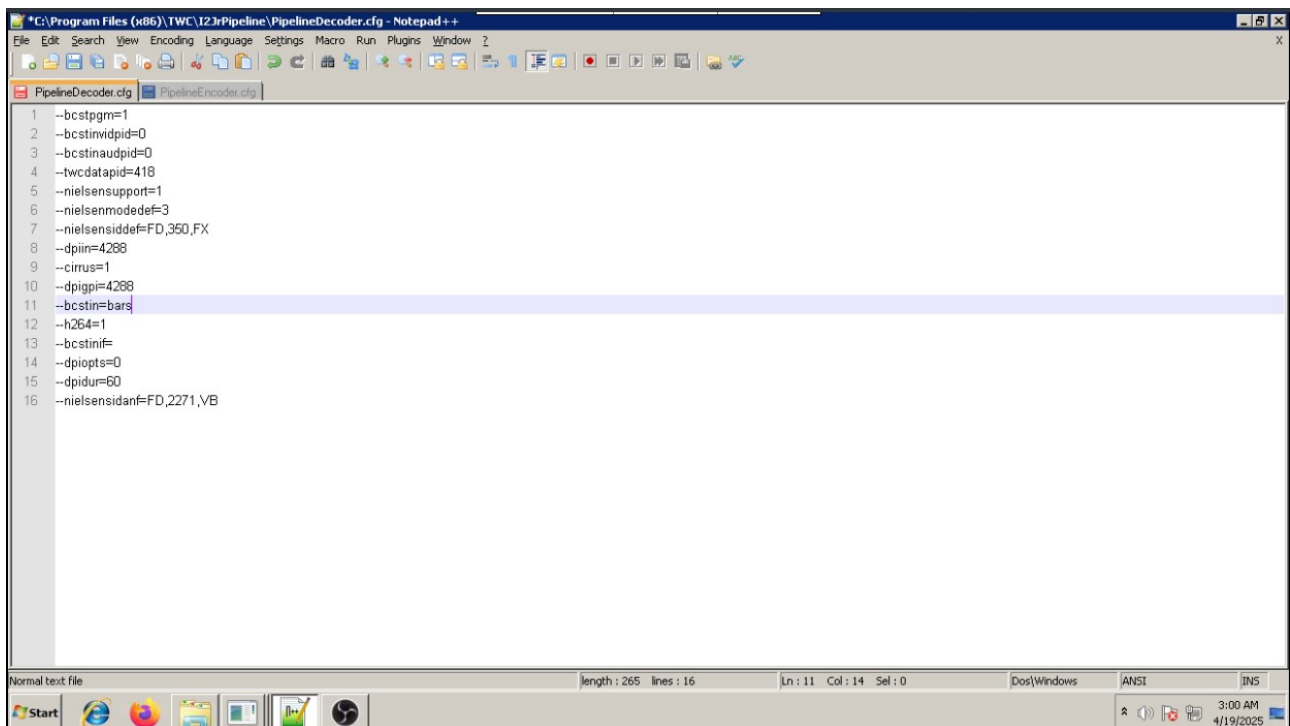
then go to “—bcstin=\_\_\_\_\_” and set it to “bars”



The screenshot shows a Notepad++ window titled "C:\Program Files (x86)\TWC\123rPipeline\PipelineDecoder.cfg - Notepad++". The menu bar includes File, Edit, Search, View, Encoding, Language, Settings, Macro, Run, Plugins, Window, and Help. The toolbar contains icons for file operations and editing. The text area shows the following configuration lines:

```
1 --bcstpgm=1
2 --bcstinvidpid=0
3 --bcstinaudpid=0
4 --twcdatapid=418
5 --nielsen-support=1
6 --nielsenmodedef=3
7 --nielsen-siddef=FD,350,FX
8 --dpiin=4288
9 --cirrus=1
10 --dpiipi=4288
11 --bcstin=udp:224.2.2.102:1234
12 --h264=1
13 --bcstinif=
14 --dpiopts=0
15 --dpiidur=60
16 --nielsen-sidan=FD,2271,VB
```

Line 11 is highlighted. The status bar at the bottom indicates "Normal text file", "length : 281 lines : 16", "Ln : 11 Col : 10 Sel : 20", "Dos\Windows", "ANSI", "INS", and the date/time "3:00 AM 4/19/2025".



The screenshot shows the same Notepad++ window after saving. The configuration lines are identical to the previous image, but line 11 now reads:

```
11 --bcstin=bars
```

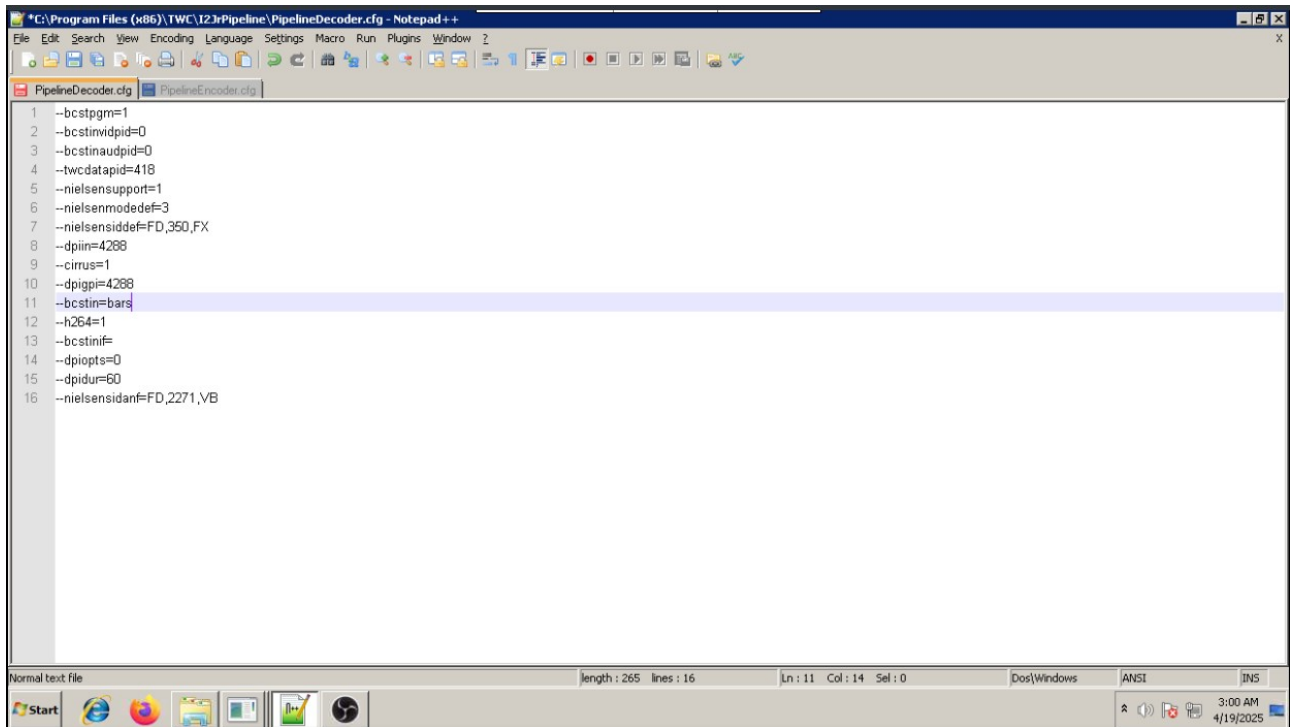
The status bar at the bottom indicates "length : 265 lines : 16", "Ln : 11 Col : 14 Sel : 0".

Then click save. Open up VLC and type in “udp://@239.0.10.75:3000”. You should see color bars with a test tone playing. That means pipeline is working. If you notice anything off however, contact ARN Star support at [starsupport@arntv.one](mailto:starsupport@arntv.one) or join the Weather Ranch Server [here](#).

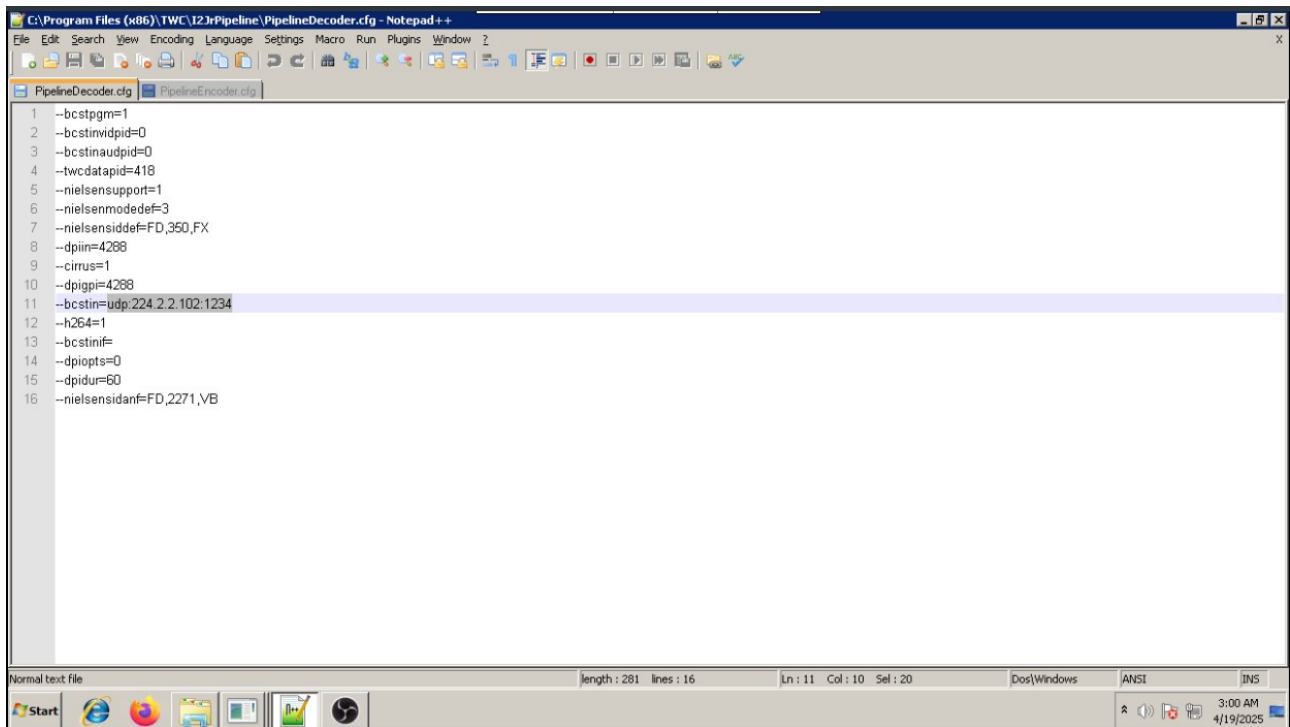
Now click [here](#) to install the ffmpeg+i2 pack. You will need this to get video input  
also click [here](#) for a test video

Unzip the ffmpeg file to your i2 desktop and open ffmpeg > bin.

In another explorer window, go to “pipeline encoder.cfg” and open it



```
1 --bcstpgm=1
2 --bcstinvidpid=0
3 --bcstiniaudpid=0
4 --twcdataid=418
5 --nielsenreport=1
6 --nielsenmodedef=3
7 --nienssiddef=FD,350,FX
8 --dpiin=4288
9 --cirrus=1
10 --dpigpi=4288
11 --bcstin=bars
12 --h264=1
13 --bcstinif=
14 --dpiopts=0
15 --dpidur=60
16 --nienssidanf=FD,2271,VB
```



```
1 --bcstpgm=1
2 --bcstinvidpid=0
3 --bcstinaudpid=0
4 --twcdataid=418
5 --nielsen-support=1
6 --nielsen-mode=3
7 --nielsen-sid=FD,350,FX
8 --dpiin=4288
9 --cirrus=1
10 --dpiip=4288
11 --bcstin=udp:224.2.2.102:1234
12 --h264=1
13 --bcstinif=
14 --dpiopts=0
15 --dpiur=60
16 --nielsen-sid=FD,2271,VB
```

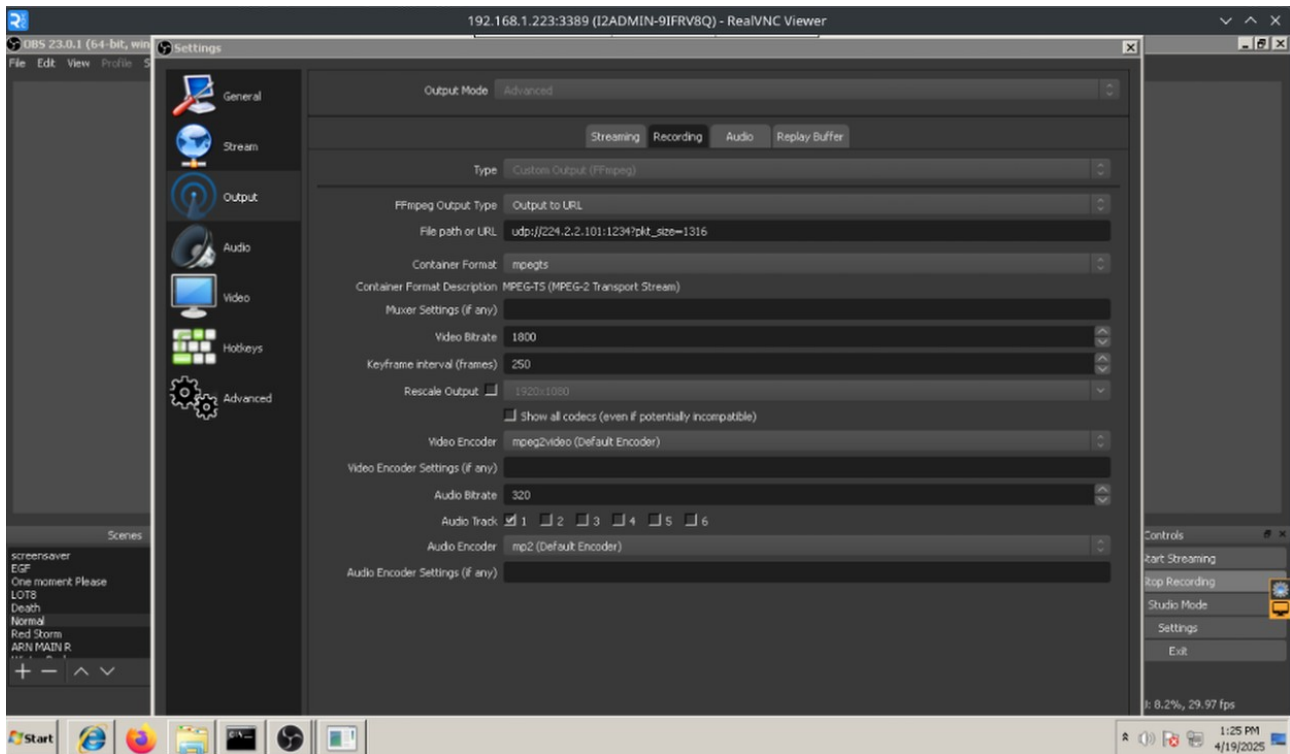
**NOTE: If your PC is BELOW the minimum requirements of the i2jr system, I recommend to NOT use local video input. Later I will show how to use off system ffmpeg.**

Set it back to how it was.

Open obs. Make sure to set the resolution to 720x640. This is the native input & output of the i2jr.

On OBS, go to settings > output > recording.

Set type to custom ffmpeg and make sure your settings match the photo



Now go to the web panel > sign in > go to restart i2 services > click restart  
Or just go here: <https://localhost:9091/#textJob/restartI2Service?CommandId=>

Now go back to that ffmpeg thing from earlier. Open “ffmpeg-sky.bat”  
Now go back to obs, add in text OR add the testing video from earlier.  
Then click record, open VLC on <udp://@239.0.10.75:3000> and you should now have  
input! Congrats!

## Off system FFMPEG & streaming

Your i2 underpowered? Want to save on system resources? Have a Spare computer?  
Then offloading ffmpeg (and streaming too if you want) can save a TON of stuff.  
So, lets jump in!

First thing you'll want to do is decide do you just want to offload video INPUT, OUTPUT, or both?

The first section will be how to offload video **input**.

## Offloading Video INPUT

Its easy to offload video input.

## Here's what you'll need

- A spare PC, one that can run OBS well.
- A good network connection and speed, ethernet works best.
- Mist Server or another streaming service like Weather Ranch Streaming

Make sure you have those, or else you wont be able to do it.

**On the other PC:** Make sure to download OBS studio.  
Know

Make sure to have a way to stream. If you don't want to host everything, I would recommend using a Streaming service like [Weather Ranch streaming](#). However some delays may occur. If you want to host everything locally, I would use [Mist Server](#). However this may take up system resources.  
(Look up a guide on how to use mist server.)

**On your i2jr:** Download the ffmpeg+i2 file and unzip it.  
Open it, go to ffmpeg > bin and download the [m3u8 script](#) and place it in that folder.  
Open the m3u8 script in Notepad++ and add your m3u8 where it says "yourm3u8".  
Once added, click save, then open the script.  
It should go directly to pipeline without any errors **\*\*IF YOUR M3U8 IS CORRECT\*\***  
If you are sure your m3u8 is correct, contact ARN STAR support at [starsupport@arntv.one](mailto:starsupport@arntv.one)  
or join the [Weather Ranch server](#)

Congrats! You now have video input, while saving resources on your i2jr!

## Offloading Video OUTPUT

This is a lot more easier to do.  
Follow the set up of pipeline and obs from earlier.

Here's what you'll need

- A spare PC, one that can run OBS well.
- A good network connection and speed, ethernet works best.

Once you do that. Instead of opening another OBS window on your jr and streaming the output from there, you'll be using another PC to **stream**.

**On the other PC:** Open OBS and add a VLC Video Source. Add the address  
"udp://@[239.0.10.75](#):3000" it should show the i2 output.

**NOTE:** This really only works with an internet switch or ethernet. I haven't been able to view it on my phone, however my Main pc (which is connected to the same ethernet switch as my JR) Can view the UDP output.

## **Offloading both Video and Output**

Follow both offloading input and output guides.

That ends this PDF about pipeline. To learn how to get data, unlocked viz, and upgrade your i2 to windows 10, read PT4; I2 & you





# SETUP GUIDE

## PT 4: i2 & YOU

Written by Eggics

Revision 1 | April 19th, 2025



**THIS WORK IS COPYRIGHTED**  
UNAUTHORIZED SHARING OF THIS PDF  
WILL RESULT IN A  
**DMCA TAKEDOWN**

# Welcome [back]!

This PDF is for **all** i2jr systems

If you are reading this it means you have finished the important steps of your i2jr. But you still need data, viz, and how to cue stuff. In this PDF, you will learn all the cue codes, and how to get data and viz.

## Getting Data

Sadly, there is only one main way to get data, unless you know someone who made their own encoder.

The coder that is the only one available is called [i2ME](#)

Radar isnt working sadly, but it will get the job done. Follow the guide linked to install it and get it working.

## Unlocking Vizrt

Viz|engine (vizrt, viz|artist) is what makes the graphics of the intellistar 2 systems.

If you want to make custom graphics, or want to change the logo, Viz artist is you friend.

But by default Viz Artist is **locked**. But we can change that with just a few files

Files: [Appcontrol.itk](#)

[Startup.itk](#)

[Viz.exe](#)

To install, stop the twc i2 service, drop the two itk files inside C:\program files\vizrt\viz\main\ make a copy of your viz.exe inside C:\program files\vizrt\viz\ and

replace the original with this exe and you will be able to open viz and make your own scenes!

## Cue Codes

Cuing things is how you control the i2jr system. You will need data for most of them to work.

**NOTE:**Enhanced (WATT) LOT8 are **case sensitive**

### Azul

- LOT8s: domestic/Azul\_i2jr
- LDL: domestic/AzulLDL\_16\_i2jr

### Nemo

- LOT8s (Normal / Nemo “Flavor N”): domestic/N
  - LOT8s (Severe 1): domestic/N1
  - LOT8s (Severe 2): domestic/N2
    - LDL Normal: domestic/ldIE
    - LDL Severe: domestic/ldIF

### Enhanced

- LOT8s (Normal): domestic/V
- LOT8s (Severe 1): domestic/V1
- LOT8s (Severe 2): domestic/V2
  - LDL Normal: domestic/ldIC
  - LDL Severe: domestic/ldID
- LDL Longform: domestic/ldII
  - LDL LOT8: domestic/z
  - No intro LOT8: Domestic/U
- No intro LOT8 (Severe 1): Domestic/U1
- No intro LOT8 (Severe 2): Domestic/U2

**NOTE:** These cue codes will be updated if I find more.

Well congrats. You have fully set up your brand new i2jr. Have fun, experiment, do new things.

I hope you have a wonderful time with your intellistar.

-Eggics.