



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 <u>STOCK IMG FILE</u> <u>**MODIFIED IMG FILES ARE NOT TO BE TRUSTED AS THEY MAY CONTAIN</u> 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 2nd 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 <u>NOT</u> PLUG IN ETHERNET TILL YOU HAVE REMOVED ZABBIX

Flashing the img

Once you have installed Macruim Reflect, open it then go to the "Existing Backups" tab.

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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 <u>NOT</u> 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





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 occours, 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 <u>NOT</u> REMOVE THE PASSWORD TO <u>ANY</u> USER. THE WEB PANEL <u>WILL</u> 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.

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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 <u>starsupport@arntv.one</u> OR go to the <u>Weather Ranch Server</u> 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





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"

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Right click it, and open it in notepad++

then go to "-bcstin=____" and set it to "bars"



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 or join the Weather Ranch Server here.

Now click <u>here</u> to install the ffmpeg+i2 pack. You will need this to get video input also click <u>here</u> 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

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NOTE: If your PC is BELOW the minimum requirements of the i2jr system, I recommend to <u>NOT</u> 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: <u>https://localhost:9091/#textJob/restartl2Service?CommandId</u>=

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 <u>Weather Ranch streaming</u>. However some delays may occur. If you want to host everything locally, I would use <u>Mist Server</u>. 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 <u>m3u8 script</u> 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 <u>starsupport@arntv.one</u> or join the <u>Weather Ranch server</u>

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





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: <u>Appcontrol.itk</u> <u>Startup.itk</u> <u>Viz.exe</u>

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/ldlE
 - LDL Severe: domestic/ldlF

Enhanced

- LOT8s (Normal): domestic/V
- LOT8s (Severe 1): domestic/V1
- LOT8s (Severe 2): domestic/V2
 - LDL Normal: domestic/IdIC
 - LDL Severe: domestic/ldlD
 - LDL Longform: domestic/ldll
 - 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.