

Nipkow Disk 32 Line Television © GPL3+

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Arduino version of the early mechanical television, invented by Nipkow more than 100 years ago.

[embedded \(/projecthub/projects/tags/embedded\)](#)

10,873 VIEWS 12 COMMENTS 32 RESPECTS

COMPONENTS AND SUPPLIES



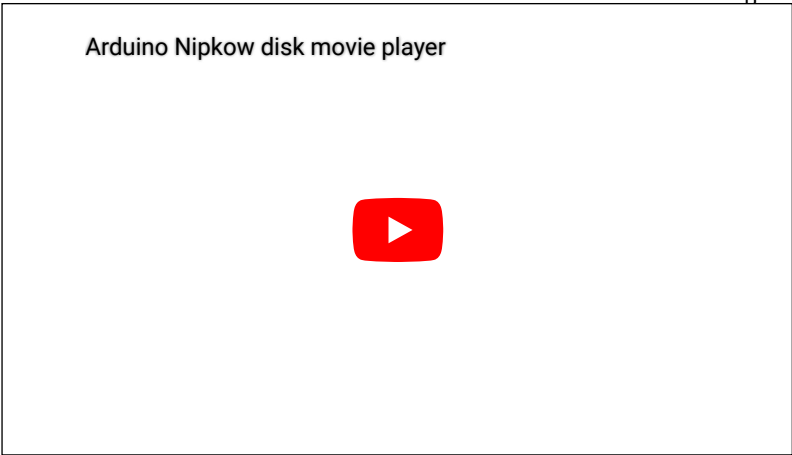
Arduino UNO (/projecthub/products/buy/41?s=BAhJIhI5Njl4NCxQcm9qZWNOBjoGRUY%3D%0A)

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1 (/projecthub/products/buy/41?s=BAhJIhI5Njl4NCxQcm9qZWNOBjoGRUY%3D%0A)

ABOUT THIS PROJECT

This project is a derivative of my "Nipkow Disk Based Digital Display Device" project.
Chall commented "Neat! If you can support 30x30, you could do images. Like they did back in the 30's".
So I wanted to see if this was possible with Arduino.



CODE

Arduino code

Compressed fo...

mov_26.zip

Arduino code

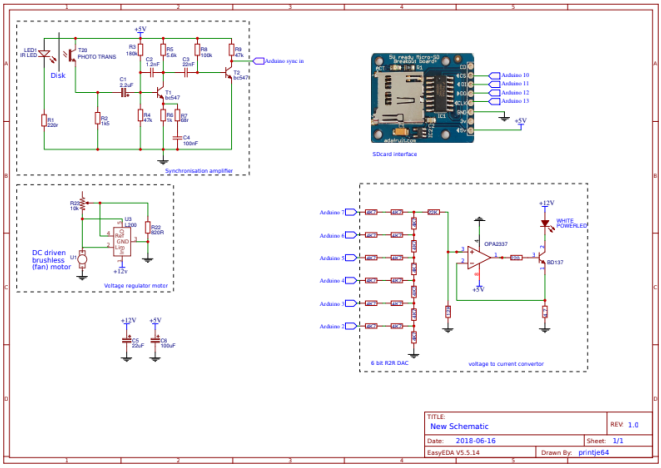
Arduino

(/PROJECTHUB/CODE_FILES/191798/DOWNLOAD)

```
1 #include <avr/io.h>
2 #include <avr/interrupt.h>
3 #include "Arduino.h"
4 #include <SPI.h>
```


SCHEMATICS

schematics DOWNLOAD (HTTPS://HACKSTERIO.S3.AMAZONAWS.COM/UPLOADS/ATTACHMENTS/503119/SCHEMATIC_NIPKOW_TPBZZAMOTO.PDF)



COMMENTS

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 **Vintage1960** (/projecthub/Vintage1960)
5 years ago
(/pr
Can we use a 32-hole Nipkow disc Peter Yanczer?
ject
hub/
Vint

age1
960)



christopheArduino (/projecthub/christopheArduino)

5 years ago

Hi Yvan,
I did not know Peter. But thanks for mentioning his name, It was nice to read who he was and what he did.
And true, it is difficult to hide the digital guy in me, using all these powers of two instead of normal numbers ...



toph



eArd



uino



Vintage1960 (/projecthub/Vintage1960)

5 years ago

Hi Yvan,
I have a record Peter Yanczer 32 lines 12 inches.
It also has on its external contour 32 other holes also distributed for the syncro.
I will try this project with an Arduino UNO in the coming weeks.
I will give you the results of this project in a few weeks.
Thank you very much for sharing your skills.
See you later.



Vintage1960 (/projecthub/Vintage1960)

5 years ago

Oops, I think I'm having trouble for converting video files ... to make it compatible with Arduino ...
I will try, my knowledge in digital is not excellent.
Like challenges



age1



960)



jimw (/projecthub/jimw)

4 years ago

So clever, inspiring, well documented, where are my tiny drills? I have details about the original Baird system. Thank you for the details about this project, Excellent. Jim

jimw

)



cdelaey (/projecthub/cdelaey)

4 years ago

We were very impressed by your mechanical television, so much that we wanted to make one ourself (based on your design) as a school science project . we are almost there (we have build the disk, the frame and the elektronics) , but we have no clue how to convert an image sequence to a binary file. Could you share your sample binary file with us. This would allow us to test our science project. Loic, Thomas and Christophe



christopheArduino (/projecthub/christopheArduino)

4 years ago

I have added the mov_26.bin file to the downloadable files above. Unzip it first and copy it to the Sdcard.
If you have a folder of images in the correct resolution you can use the c# code included to generate a bin file.
Have fun!



toph



eArd



uino




cdelaey (/projecthub/cdelaey)

4 years ago


Thank you very much, you are the best !!!

hub/

cdel
aey)

 **Juan3006 (/projecthub/Juan3006)**
4 years ago


I am currently working on a project for my school based in this project is it possible for you to give me some more instructions and information on the functioning of this device. I have 3D printed a 32 hole Nipkow disk could it be used for this project?.
Nipkow disk files: <https://www.thingiverse.com/thing:2411633> (<https://www.thingiverse.com/thing:2411633>)
Juan
300
6)

 **johnlemke62 (/projecthub/johnlemke62)**
2 years ago

There is a 32-line televisor available as a kit at: <https://mindsetonline.co.uk/shop/televisor/>
(<https://mindsetonline.co.uk/shop/televisor/>)
I have one myself. It is a good kit.
emk
e62)


 **Vintage1960 (/projecthub/Vintage1960)**
2 years ago

Is there an executable version of the program in C # to convert image sequences to binary file?
Thank you!
Vint
age1
960)

 **Vintage1960 (/projecthub/Vintage1960)**
2 years ago

Hello.
I am almost at the end of this project.
Everything seems to be working.
I would like to convert other videos to binary mode.
I have done all the steps but I am not able to run the program in C #. convert image folder to sdcard fileC #.
My knowledge of C # is limited but I'm doing pretty well.
Is there a directly executable version ?.
I have already made a first version of on a 32 line disc with a conventional circuit and the results were acceptable.
I can't wait to see the results with an Arduino circuit.
thank you
1 thank

AUTHOR

(/projecthub/christopheArduino)
 **christopheArduino (/projecthub/christopheArduino)**
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June 16, 2018

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Arduino Amiga Floppy Disk Reader (V1) (/projecthub/robsmithdev/arduino-amiga-floppy-disk-reader-v1-485582?ref=similar&ref_id=96284&offset=3)

Project tutorial by **Team RobSmithDev** (/projecthub/teams/robsmithdev)

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Project tutorial by **RobSmithDev** (/projecthub/RobSmithDev)

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Project showcase by **Zorzonel Vlad (/projecthub/user8702584)**

22,968 VIEWS **14** COMMENTS **53** RESPECTS

(<https://www.arduino.cc>)

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