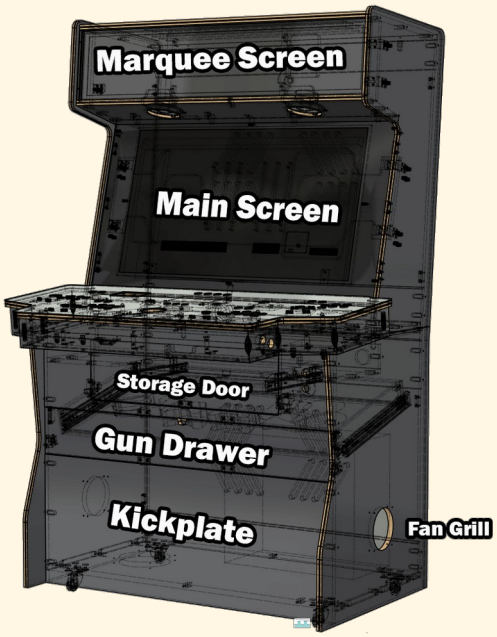
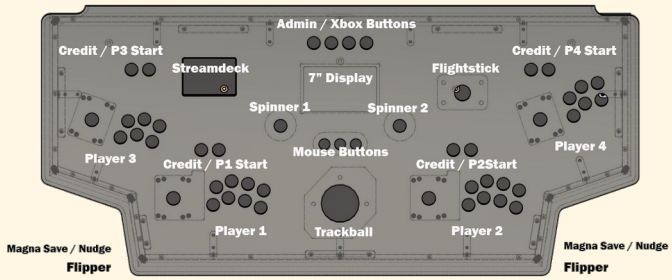
TUKKARI FLATPACK

Designed by Daniël Spies & Jan Khynych





Congratulations on the purchase of your Tukkari Arcade!

We included ALL the cabinet hardware you need to get started, but of course, an Arcade is more than just a cabinet alone...

As a gesture to help you even more, I made a list of parts that I have worked with and tested on this cabinet. Again, feel free to select any other brand / supplier you like! But this might give you a jump start.

If you get overwhelmed with all the Arcade options in step 1 (there are many details there), I made a KIT together with RPEG electronics with EVERYTHING you need (including some spare buttons and cables).

You can find it on their website and you will get a 5% discount as my customer using this code: DANIEL5

https://rpegelectronics.com/products/daniel-spies-tukkari-arcade-set
Thanks, Raymond, for making this possible!

ps: The code works on all RPEG Arcade products

I will also add this option with Ultimarc, but as several parts are out of stock at the time of writing, Andy suggested waiting until his stock is replenished.

THINGS TO BUY YOURSELF

1: Arcade Buttons / Joysticks / Controllers
2: T-Molding in your favorite color
3: Real Glass Panels (plexiglass can be ordered with the kit)
4: Amplifier + Speakers
5: 2 x 140mm Fans
6: Main Screen + Marquee Screen
7: Power inlet panel mount
8: USB panel mount
9: Lightgun Power inlet panel mounts 2x
10: Foam for drawer inlay
11: StreamDeck MKII (15 buttons)
12: 7” Display underneath the plexiglass
13: Artwork / Decals for your cabinet
14: Momentary LED Switch (power on/off)

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ARCADE BUTTONS



First choose between RGB or ARGB Buttons. Any 28mm button will fit. You will need 47 buttons for the standard 4-player layout, including the flipper buttons on the sides of the control panel. Ultimarc only sells RGB, RPEG sells ARGB (addressable RGB).

Although you CAN add special converter boards to make RGB work with ARGB, I would advise going with only ONE type.

I have worked with both types in my career, and both work great. RPEG buttons have the advantage over Ultimarc in that the cables can be removed from the buttons, therefore making it much easier to replace one if needed. Ultimarc buttons are soldered to the RGB wires and bound into the cable run in your panel. Addressable buttons from RPEG use their own software that is easier to use than LEDBlinky.

RPEG x Qanba ARGB Arcade Buttons



You can choose CONCAVE / FLAT or CONVEX buttons. CLEAR CAPS / TRANSLUCENT CAPS and BLACK CAPS.

Any will look great and I have used them all.

Quick help:



About the caps: CLEAR caps are great if you like to insert ARTWORK in them (or ICON stickers for coin / PSTART, etc.). TRANSLUCENT CAPS are great to light the FULL RING AND CAP, BLACK CAPS (they are often called ECLIPSE) only make the outer RING light up.

Again, you can't choose wrong; all look and feel great.

Links:

Ultimarc Goldleaf: https://www.ultimarc.com/arcade/buttons/goldleaf-pushbuttons-rgb/

RPEG/QANBA: https://rpegelectronics.com/products/rpeg-x-qanba-arcade-buttons

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SPINNER



I have worked with Ultimarc and GRS / THUNDERSTICK Studios. Both are perfect. Remember that with Ultimarc you ALSO need a spinner CAP (in various colors) and optionally a weight. You ALSO need a USB controller for the Ultimarc one. If you buy an IPAC2 board, you can attach the TRACKBALL AND SPINNER together.

GRS / THUNDERSTICK has the advantage that you can order a PUSH PULL SPINNER. This gives you more options in gameplay! The spinner cap is also included as well as the USB controller.

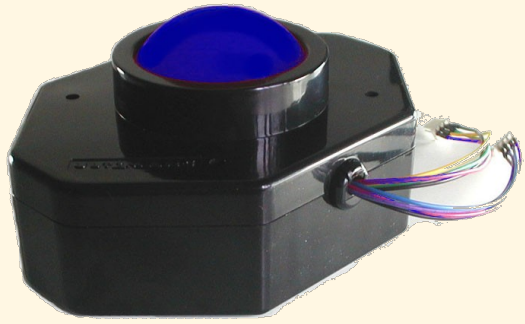
Links:

Thunderstick Studios: https://thunderstickstudio.com/products/grs-push-and-pull-spinner-ultra

Ultimarc: https://www.ultimarc.com/trackballs-and-spinners/spinners/

Note: You can use TWO in the standard 4 player control panel if you desire.

TRACKBALL



I recommend Ultimarc Trackballs. The cutout and pocket depth are specially made for them.

https://www.ultimarc.com/trackballs-and-spinners/trackballs/u-trak/

You will need to get a TRANSLUCENT BALL to make it light up. You will also need an RGB or ARGB expansion board depending on your previous button choice:

RGB:

https://www.ultimarc.com/trackballs-and-spinners/trackball-accessories/u-trak-rgb-led-illumination-kit/

ARGB:

https://rpegelectronics.com/products/trackball-argb-led-pcb

JOYSTICKS

Sooo many options!

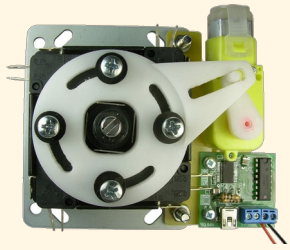
Just choose whatever joystick you think suits you. Almost every brand is compatible with this panel. If you select a joystick that does not match the holes, you can easily modify it yourself to make it fit. I tested the panel with SANWA, Industrias Lorenzo, Seimitsu and Ultimarc Servo and J-Stick.

Links:

https://www.ultimarc.com/arcade-controls/joysticks/servostik/

https://www.ultimarc.com/arcade-controls/joysticks/j-stik-ball-top/

https://paradisearcadeshop.com/collections/il-eurojoystick-series



If you like your joystick ball tops to be lit up, you can only choose ULTIMARC RGB joysticks. But RPEG is almost done with their ARGB version.

Links

https://www.ultimarc.com/arcade-controls/joystick-accessories/illuminated-handles-for-j-stik-servostik/

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SERVO MOTORS

Some games play better in 4 way mode (only UP DOWN LEFT and RIGHT). Those games will not like DIAGONAL inputs. There are special joysticks that have motor driven restrictor plates that automatically move the plate to your chosen game. They restrict your joystick movement to 4 or 8 way.
I used both Ultimarc ServoStiks:

https://www.ultimarc.com/arcade-controls/joysticks/servostik/

You also need the control board: https://www.ultimarc.com/arcade-controls/joysticks/servostik-control-board/ Or the brand new THUNDERSTICK STUDIOS GRS versions: These are compatible with SANWA joysticks:

https://thunderstickstudio.com/products/tos-grs-switchable-4-to-8-way-restrictor-all-in-one-kit-1 (control board included for 4(!) sticks)

FLIGHTSTICK





https://www.ultimarc.com/arcade-controls/joysticks/minigrip-stick/

or the TRON version

https://thunderstickstudio.com/products/grs-tron-arcade-flight-stick?srsltid=AYCX9vKQBPM7XQNYx__NMTYYW_meM8qSEWFPC7RirNIPmKn_NMv0RPRw

MOMENTARY LED SWITCH

Power on/off



https://a.co/d/0iFr60Ll



You will of course also need an encoder board to connect the buttons and joysticks to your pc.

You will need 2x Ultimarc IPAC Ultimate boards for this 4 player panel: https://www.ultimarc.com/control-interfaces/i-pacs/i-pac-ultimate-i-o/

Or 1x the Brook RPEG Encoder Board (this is made for 4 players) https://rpegelectronics.com/products/rpeg-x-brook-arcade-encoder

T-MOLDING

Any type and color you would like. As the color is matched normally with your Arcade Theme, you will need to pick your own color. Choose 19mm or 3/4" T-Molding https://www.t-molding.com/

> The difficult routing of the T-Groove is done for you!
> Just cut the T-Molding and hammer it in!

STREAMDECK



This is just too much fun. Not cheap but really handy to launch games, change joystick modes, run LED animations etc etc.

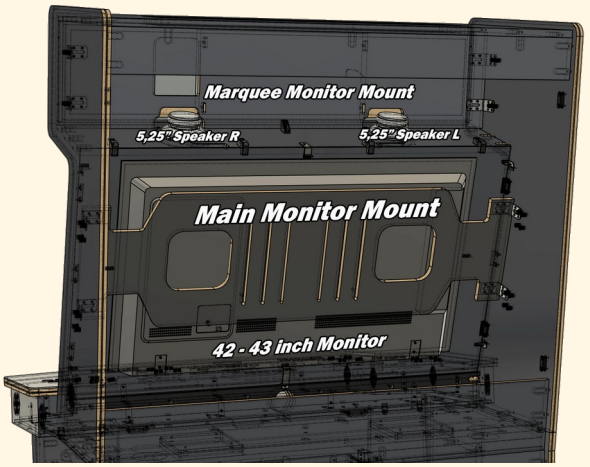
Use the MK-II version (15 buttons)

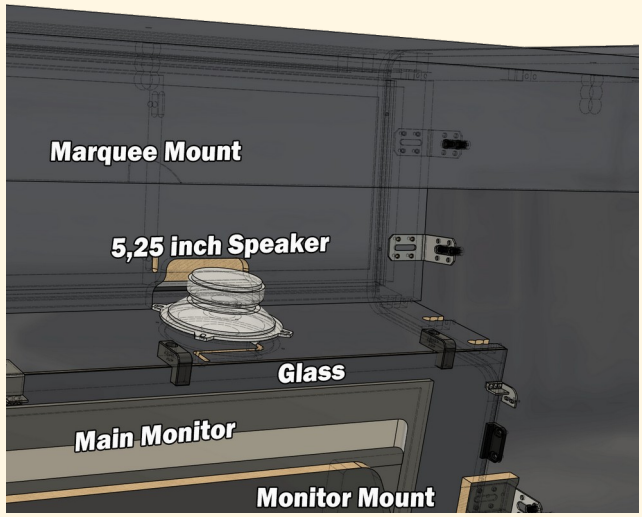
It will sink into the plexiglass cutout like a flawless puzzle piece...

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MAIN SCREEN + MARQUEE SCREEN





SCREENS

Main Screen: The design is based on the: LG OLED 42INCH

https://www.lg.com/nl/televisies-soundbars/oled-evo/oled42c54la/

But as this is an expensive oled screen, you can easily change it to another brand or type. The mounting plate is made so that it works with all VESA ready screens up to 43 inch.

Note: We will include the black bezel (behind the glass panel and in front of your monitor) including the sensor cutouts. This bezel is made for this 42 inch screen. You might need to make another bezel that fits your screen. This is easy to do or you can let a picture frame maker (passe partout maker) do it for you.

GLASS PANELS

To REALLY make your Arcade cabinet look premium, go for REAL glass that you need to order locally.

Tempered glass is the safest option but Float glass is fine too. The cabinet can handle 4-6mm. I like GREYED glass (for extra contrast) but clear or anti-reflective glass is a valid option as well. Dimensions you need to order:

Main Monitor 1127 × 635 mm

Marquee Monitor 1127 × 244 mm

MARQUEE SCREENS

VITROLIGHT 43 INCH

MARQUEE VLT430 (NOT the 490 as this will not fit) email Daniel for quotes: sales@vitrolight.com

28 inch Streched Widescreen:

Wisecoco 28inch info@wisecocodisplay.com

You will need to create a nice bezel for this as the screen is a bit smaller of course.

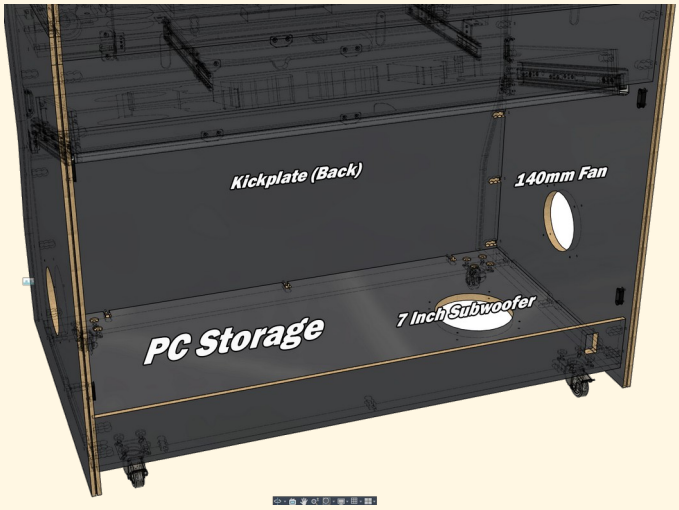
Static marquee

Just stick some LED strips on the Marquee Holder and sandwich the artwork behind the glass. Now you have an original static marquee! Tip: If you stick the marquee to translucent plexiglass, you will not see any hotspots.

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AMPLIFIER + SPEAKERS AND SUB



Totally up to you! You can spend as much as you like regarding audio quality. But to get you started:

Speaker dimensions: 5.25 inch (13cm) FULL RANGE SPEAKERS 50WATT RMS

Amplifier: Matching your speaker config

Subwoofer dimension: 7 INCH (18cm)

FANS



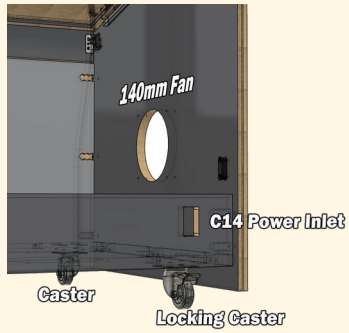
We would like a good continuous airflow through the lower cabinet where the pc is located.

Position the fans so that one PULLS air into the cabinet and the other PUSHES it out. Any 140mm fans will work. I like to work with NOCTUA fans:

https://www.noctua.at/en/products/nf-a14-industrialppc-2000

But any 140mm fan will do!

(just connect them with some extension cables to your PC. You can also add a small FAN controller to set the RPM manually)



POWER INLET PANEL MOUNT



https://a.co/d/01bYEAlG

If you like any other type, the cutout in our design is:

47,5mm x 28mm

USB PANEL MOUNT



https://a.co/d/08anFQCp

Note: You might like to order some USB extension cables as well!

DC POWER PANEL MOUNTS

For the 12 or 24v of your lightguns!

https://a.co/d/0eZzAp1X

For GUN4IR guns you need this converter:
https://a.co/d/0a7h2Zvu

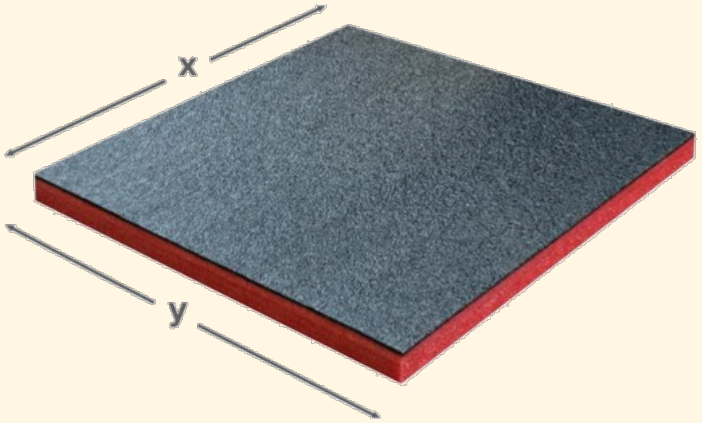
For Retroshooter guns you need this converter:

https://a.co/d/0bpDDFhk

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FOAM FOR YOUR DRAWER



https://shadowfoam.com/

dimensions needed:

449mm x 1061mm x 70mm (50mm can be okay also)

7 INCH SCREEN:

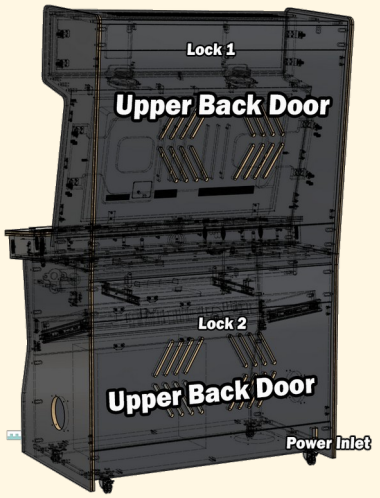
for under your plexiglass
to show boxart, controller layouts, gameplay video's etc



https://a.co/d/0jgGnFY3

DECALS

You can design your OWN decals using the included template you will get by email after purchasing your cabinet. Tukkari offers a printing service for your own designs. If you order prints, Tukkari will deliver them together with your Arcade Cabinet.



LAST NOTE

I hope you have a great time building your Arcade cabinet!

Please note that both Tukkari and I are NOT Arcade consultants. We just wanted to help the community solve one of the most difficult parts, creating the actual cabinet.

You can always send an email but only questions directly related to the CABINET assembly will be answered swiftly.

Also, please feel free to CUT into the panels, make adjustments, fill holes that you don't use. Change anything you like. THAT is what I had in mind with this cab. Dare to make it your own and improve!!
I would love to see pictures of the Arcades you are going to build. I might post some on my channels! Please DM me on Insta when you have your Arcade ready!
@Thedanielspies_Arcades
Kind regards from the Netherlands,
Yours sincerely,

Daniel Spies