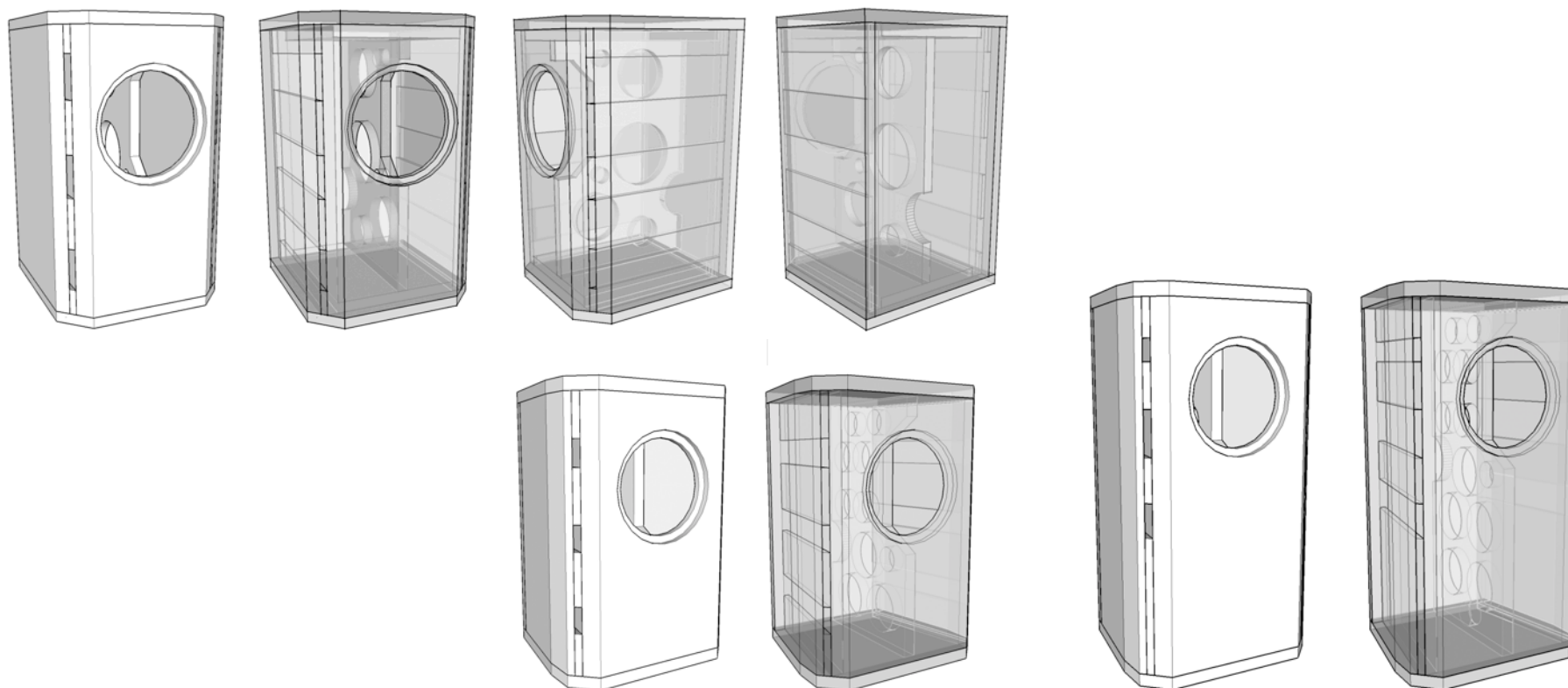




# Mar-Ken10.x miniOnken for Mark Audio Alpair10.x

12-november-2017



Planet10-hifi miniOnken-style enclosures for the Mark Audio Alpair10, A10.2, A10.3, A10p 5.25" (140mm) driver. Includes advanced trapezoid variations have the postfix T (medium), wT (wide), or xwT (extra-wide) – once the chamfers are cut it is actually 8-sided. Benefits include reduced side-to-side standing waves. Fabrication is more difficult.

miniOnkens feature

- 1/ high resistance slot ports. Insensitive to dynamic changes in speaker parameters,
- 2/ rigid enclosures with low resonance characteristics
- 3/ narrow baffles with large chamfers for excellent imaging
- 4/ single driver, no crossovers, no filters required

Additional variations based on the prime enclosure include compact enclosures for use as Centre channels, midTweeters, and a floorstander

\* miniOnken nomenclature is explained here: <http://www.diyaudio.com/forums/planet-10-hifi/160747-minionken-nomenclature-what-those-names.html>

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# Drawings: Mar-Ken10.x

11-november-2017

Drawings/Contents (provisional)

io/ Intro  
i1 / List of drawings (black are present in the current doc, grey are planned\*)  
i1/ Pictures  
i2/ Notes  
i3/ Visualizations

## **Rectangular prime boxes with 9mm spacers**

Mar-Ken10p Plan 15mm / 9 (18mm baffle)  
Mar-Ken10p Plan 18mm / 9  
Mar-Ken10.3 Plan 15mm / 9 (18mm baffle)  
Mar-Ken10.3 Plan 18mm / 9  
Mar-Ken10.2 Plan 15mm / 9 (18mm baffle)  
Mar-Ken10.2 Plan 18mm / 9

## **Trapezoidal prime boxes with 9mm spacers**

Trapezoid Intro  
Mar-Ken10pT Plan 18mm / 9  
Mar-Ken10pwT Plan 18mm / 9  
Mar-Ken10.3T Plan 18mm / 9  
Mar-Ken10.3wT Plan 18mm / 9  
Mar-Ken10.2T Plan 18mm / 9  
Mar-Ken10.2wT Plan 18mm / 9  
Mar-Ken10pTT Plan 18mm / 9  
Mar-Ken10.2TT Plan 18mm / 9  
Mar-Ken10pwTT Plan 18mm / 9  
Mar-Ken10.2wTT Plan 18mm / 9  
Mar-Ken10xT Detail 18mm / 9

## **Trapezoidal prime boxes with 12mm spacers**

Mar-Ken10pxwT Plan 18mm / 12  
Mar-Ken10pxwT Detail 18mm / 12

## **Twins (2 drivers)**

Twin Mar-Ken10p Plan 18mm / 9  
Twin Mar-Ken10.2 Plan 18mm / 9  
Twin Mar-Ken10.2TT intro  
Twin Mar-Ken10.2TT Plan 18mm / 9  
Twin Mar-Ken10pTT Plan 18mm / 9  
Twin Mar-Ken10.2TT Detail 18mm / 9

## **Classic Golden Ratio**

Classic GR A10.3/p 18mm  
Classic GR A10.2 18mm

## **Bonus Designs**

Mar-Ken10.2 CentreA  
Mar-Ken10p CentreA  
Mar-Ken10p CentreCb  
Mar-Ken10.3 CentreA  
Mar-Ken10.2 minimum Baffle  
Mar-Ken10.2 Compact Floorstander 15mm/18mm baffle  
Mar-Ken10.3 Compact Floorstander 15mm/18mm baffle  
Mar-Ken10p Compact Floorstander 15mm/18mm baffle  
Mar-Ken10p Compact Floorstander 18mm  
Roach-Ken10.2 (large, low profile variation)  
Mar-Ken10.2 SGR Baffle  
SZ10.2-13 Relex (simplified MK10.2 with rear vent)  
A10.2 sealed (10 litres/small face)  
dMarS10.2 (18mm)  
dMarS10.2 in-wall (18mm)  
A10p 7 litre vented (15mm)

## **Suggested Cut Plans**

5'x5' cut MK10.x 15mm / 9  
5'x5' cut MK10.x 18mm / 9  
5'x5' cut MK10.2T 18mm / 9  
4'x8' cut MK10.2T 18mm / 9  
5'x5' cut MK10.2TT 18mm / 9  
4'x8' cut MK10.2TT 18mm / 9  
5'x5' cut MK10.2wT 18mm / 9  
4'x8' cut MK10.2wT 18mm / 9  
5'x5' cut MK10.2wTT 18mm / 9  
4'x8' cut MK10.2wTT 18mm / 9  
4'x8' cut MK10p Compact Floorstander 18mm  
5'x5' cut Twin MK10.2wTT 18mm / 9  
5'x5' cut CGR MK10.2  
5'x5' cut CGR MK10.3/p

## **cut plans for other designs (on request)**

Ao/ MK10.x generic damping plan (for 12mm (1/2") cotton or wool felt)

## **other danping plans (on request)**

Alpair 10.x dimension drawings

\* as a subscriber please ask if you need any of the uncompleted drawings or even one that i didn't think of

please email me <david@planet10-hifi.com> with corrections & suggestions to make this document more useful

please email <david@planet10-hifi.com> with corrections & suggestions to improve this document  
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