



## Mini-Monitor Basic Mk2, compact box in Hobby Hifi 1/2014



Mini-Monitor Basic Mk2 is a development by Bernd Timmermanns, which replaces the no longer available mini monitor. This housed a Visaton W130 SC, which is no longer available. The new mini monitor received the unshielded Visaton W130S, which was combined with a cheap SC10N tweeter dome as in the previous mini monitor.

### technical data:

- Impedance: 4 Ohm
- Characteristic sound pressure (2.83V/1m): 85.5 dB
- Dimensions (HxWxD): 400 x 200 x 280 mm
- Frequency range (-8dB): 50 - 40000 Hz
- Crossover frequency(s): 2000 Hz
- Principle: Bass reflex box

The crossover consists of a low pass and a 2nd order high pass (12 dB steepness per octave), which controls the tweeter via a resistance divider to adjust the level. It is hardly easier to set up a crossover. Compliments to Visaton, whose speaker chassis makes this possible.

The frequency response of mini monitor is quite flat; the waterfall spectrum is good-natured; the nonlinear distortions are very low.

### An excerpt from the hobby HiFi hearing test

... "The bass foundation is strong and firm. Even double bass has its realistic size and the volume to which it is entitled. It therefore looks absolutely authentic. The appropriately restrained basic tone range also contributes to the clarity of the bass. If the frequency response in this range between 150 and 300 Hertz tends to exaggerate, the woofer contours become blurred. The mini monitor Basic Mk2 behaves absolutely exemplary here as in the entire frequency range. The voice reproduction benefits enormously from the perfectly balanced bass and basic tone display. The acapella formation "Singer Pur" with its rather special instrumentation

of soprano, three tenors, baritone and bass not only demands a large frequency spectrum, but also puts the resolution of the loudspeakers to a hard test, especially with three voices in one pitch. The Mini-Monitor Basic Mk2 masters this test with flying colors: All six voices are not only clearly audible, but are also wonderfully vividly depicted. The positions of the singers on stage can be perfectly understood. The ensemble's stine interpretations are really exciting, especially since here the excellent texts, which are abundantly snuffed up in the original, can finally be understood. Which, of course, is first of all due to the excellent articulation, but also the excellent speech intelligibility of the mini monitor. In terms of heights, the mini monitors not only sound very clear, but also really lively and impulsive. The O-Zone Percussion Group benefits from this with its extensive percussion, with which it delivers an impressive sample of its skills on the hearing test CD of the company Manger. Thankfully, the tweeter remains unagitated, avoids clumsy exaggeration and prefers to shine with differentiated detail resolution at a high level. The musical representation extends over an exceptionally wide and deep area of space. "Pure Singers" benefit from the sovereign staggering of the width and the precise



D'Appolito construction.  
discipline its ability."

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## Our kit consists of

- Visaton Tweeter SC 10 N
- Visaton Woofer W130 S, 4 Ohm
- 2x Bass reflex tube HP50, 50x145 mm, black
- Insulation tile MT Bondum 800 (30 x 50 x 2 cm)
- PE foam sealing strips, 5x2 mm
- 0,5x Insulation material Sonofil 100 x 35 cm f. 20 Liters
- Pole terminals PK31, one pair, gold-plated, red+black
- 2m speaker cable 2x1.5 mm<sup>2</sup>, transparent
- Pan screws 4x20 black, 12 pieces
- Kit Blueprint
- Audaphon MKP CAP Superior 4.7  $\mu$ F / 400 Vdc
- Sound frequency electrolytic capacitor, 15  $\mu$ F / 63 Vdc
- 0.7 mm air coil, 0.68 mH/0.70 Ohm
- Core coil, 1.5 mH / 0.17 Ohm
- Metal oxide resistance MOX5 2.2 ohms (red-red-gold)
- Metal oxide resistance MOX5 12 Ohm (brown-red-black)

the crossover components (right),  
built on a wooden board.

Kit without housing, price per speaker EUR 104.00    
Without VAT: € 87.39 / \$ 87.39

## Kit with high-end turnout from Hobby HiFi

In the high-end version proposed by Hobby Hifi, a Mundorf M-Cap Evo oil condenser is used as a capacitor in series with the tweeter. Parallel to the woofer, an electrolytic capacitor, smooth, is used. All coils are supplied as baking lacquer coils.

- Mundorf MCAP EVO Oil Capacitor 4.7  $\mu$ F / 450 V
- Elko smooth, 15uF / 70 Vdc
- Mundorf Air Coil L71, 0.68 mH/0.71 Ohm
- Mundorf H-core baking coil BH100, 1.5 mH/0.17 Ohm
- Metal oxide resistance MOX5 2.2 ohms (red-red-gold)
- Metal oxide resistance MOX5 12 Ohm (brown-red-black)

Kit with high-end switch without housing, price per speaker EUR 130.00    
Without VAT: € 109.24 / \$ 109.24

## Raster PCBs

[Raster plate RA140](#), or

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We recommend one plate per kit (for a pair of speakers so 2)

## Impedance correction

If the loudspeaker is to be operated on a tube amplifier, then an impedance correction should be used. Here, the component quality plays only a minor role, which is why we only offer one kit (on request, of course, you can also get higher-quality components).

For impedance correction, we supply the following components:

- Elko rough, 33  $\mu$ F/100 Vdc
- Audaphon Air Coil L7, 0.33 mH/0.48 Ohm
- Ceramic resistance 6.8 Ohm/20 Watt

Price per impedance correction for a box to build on wood EUR 10.20 

Without VAT: € 8.57 / \$ 8.57

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