



## **KT3 LOUDSPEAKERS**

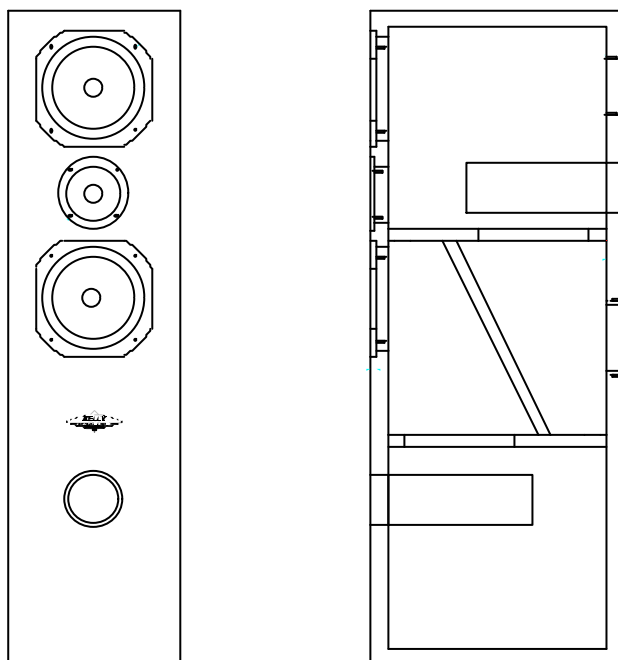
### ***INSTRUCTIONS FOR USE***

*Thank you for purchasing a pair of Kelly Transducers KT3s.*

*Much effort and research has gone into the creation of these speakers which have been designed for a highly musical and natural tonal balance coupled to very high efficiency.*

*The high efficiency KT3s give full drama and scale to music even when used with modestly powered amplifiers.*

*Dust regularly with a soft duster or soft brush but be careful when using cleaning or polishing agents - they may harm the surface finish.*





## INTRODUCTION

Thank you for purchasing a pair of Kelly Transducers KT3s. These high efficiency monitor loudspeakers have been designed to bring the full dynamic range and scale of music into your living room even with modest amplification equipment. In addition the high efficiency KT3s give exceptionally low levels of distortion and colouration at normal listening levels leading to a natural sound quality. Possibly more important is that they maintain their linearity even at high listening levels.

## INSTALLATION

Carefully unpack your KT3s. As the KT3s are large and quite heavy, it is advisable to have another person to help at this stage.

Once they are unpacked choose your siting position carefully. Correct siting of the loudspeakers can have a dramatic effect on the sound quality achieved. Please spend some time experimenting with their positioning. Use the following information as a guide only, the best sounding position will depend to a large extent on the size and shape of your listening room and the type and amount of soft furnishings in it.

### **Warning - Magnetic Fields**

The loudspeaker drive units used in the KT3s utilise permanent magnets which generate magnetic fields both when the speaker is playing music and when idle. Do not place your KT3s close to television screens, computer monitors, magnetic storage media (such as cassette tapes or computer disks) or other equipment which may be affected by strong magnetic fields. For safety we recommend that all such items are kept at least 1 metre away from each speaker.

## SPEAKER POSITIONING

We generally recommend that the KT3s should be positioned between 2 - 4 metres apart and between 0.5 to 1.5 metres from the rear wall.

The distance between the two speakers affects the perceived width of the stereo image. If the two speakers are too close together the image may appear flat and mono-like. If the speakers are too far apart the image may appear to have a 'hole' in the middle and not create a natural acoustic space between the speakers.

The distance between the speaker and the rear wall affects the amount of bass reinforcement due to reflected low frequency energy. Carefully adjust this distance to give a smooth extended bass response at the listening position. Do not be tempted to position the speakers very close to the walls to give maximum bass reinforcement as this will obstruct the rear facing port and usually lead to a 'boomy' uncontrolled bass response.

The speaker cabinets can also be slightly 'toed-in' so that they face slightly inwards towards the listening position. This can result in sharper stereo focus but at the expense of a smaller listening 'hot spot'.

The distance of the listening position from each loudspeaker should be equal to or greater than the distance between the loudspeakers.

## CONNECTIONS

**Important - All connections should be made with your Hi-Fi equipment switched off.**

The KT3s are equipped with two pairs of gold plated binding post terminals situated on the rear face. This arrangement allows for normal (single) wiring, bi-wiring or bi-amping:



## NORMAL (SINGLE) WIRING

In normal (single) wiring use, the two pairs of terminals on the rear face of the KT3 are linked together with the supplied gold linking bars. You can attach your speaker cable pairs to either the top or bottom sets of posts. This connection can be made by either 4mm banana plugs (which will fit into the end hole of the post), spade terminals or bare wires.

**Note - It is important in all wiring schemes that the + output terminal of the amplifier is wired to the + input terminal of the speaker and the - output terminal of the amplifier is wired to the - input terminal of the speaker in the same way on both speakers. If this connection is not maintained (incorrect channel polarity) the sound may appear weak and 'phasey' with reduced bass output.**

## BI-WIRING

When bi-wiring, the linking bars are removed and the H.F. (high frequency) and L.F. (low frequency) parts of the crossover become separated. Two sets of cables are now connected from each amplifier channel to each speaker. This can give small but noticeable gains in clarity. Taking each speaker in turn, one set of cables connects to the upper (H.F.) pair of binding posts on the KT3 and a second set connects to the lower (L.F.) pair of binding posts. If at the amplifier end there are two sets of terminals (two + and two -) per channel you can simply attach each cable to its respective binding post. If there is only one set of terminals per channel then you will need to connect both plus cables to the same terminal post and similarly both minus cables to the same terminal post.

## BI-AMPING

In this mode the H.F. and L.F. sections of the crossover are again separated but are now connected to their own dedicated amplifier. This method of connection gives small but noticeable gains both in clarity and control.

Four speaker cables and four amplifier channels are now required (for instance two stereo amplifiers can be used).

**Note - It is very important that all the amplifiers used have the same gain and polarity characteristics, we strongly recommend that you consult with your dealer as to the suitability of your equipment if you are considering this method of connection.**

## GRILLES

The KT3s are supplied fitted with grilles which are made from an acoustically transparent cloth. Some listeners may wish to remove these grilles if they feel that they alter the perceived sound quality. However we recommend that the grilles are left in place at all other times as they offer some degree of protection to the drive units.

## FEET

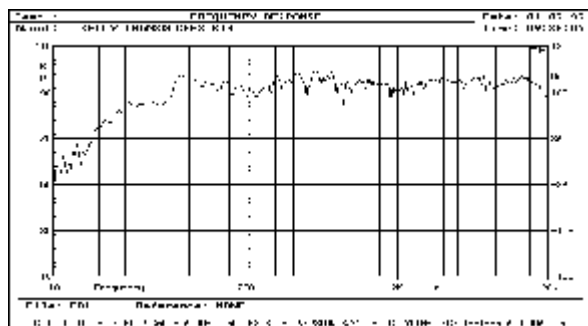
The KT3s come ready fitted with rubber feet which are suitable for most situations. Optionally these can be replaced with adjustable gold plated conical spikes available from Kelly Transducers. These can be fitted by simply unscrewing the bolt which secures the rubber foot and then screwing in the new spike assembly. Other spikes which use an M6 fixing thread may also be suitable.



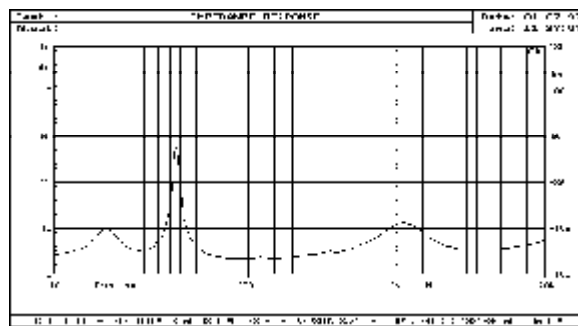
## SPECIFICATIONS

System type	Two way, dual reflex
Drive units	One 25mm soft dome tweeter, Two 170mm bass units
Sensitivity	95dB @ 1m @ 2.83V
T.H.D.	< 0.5% 20Hz - 200Hz (2.83V / 95dB) < 0.3% 200Hz - 20kHz (2.83V / 95dB)
Nearfield frequency response	50Hz - 20kHz (-6dB)
In room frequency response	25Hz - 20kHz (-6dB)
Maximum phase angle	38°
Nominal impedance	6 Ohms
Power handling	120 Watts RMS
Cabinet construction	High self-damping 25mm M.D.F. with three anti-resonance cabinet braces; fully lined on all internal surfaces with open cell acoustic foam
Crossover type	Bi-wirable, 2 way, 1st / 2nd order. Gold plated heavy duty binding posts.
Dimensions (w x h x d)	250 x 950 x 367 mm
Weight	30 kgs

FREQUENCY RESPONSE



IMPEDANCE PLOT



*Kelly Transducers reserve the right to make improvements that may result in specification or feature changes without notice.*

*Kelly Transducers are internationally distributed by:*

**Musical Fidelity Ltd, MF House, 15-17 Olympic Trading Estate, Fulton Road, Wembley, Middlesex, HA9 0TF, UK.  
Telephone +44 (0) 181 900 2866**