Multi tap matching transformer

5" dual cone driver
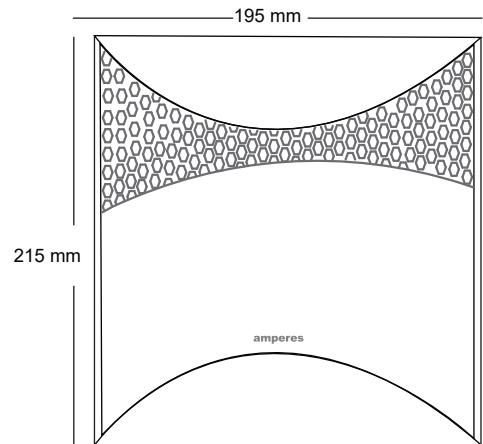
Good sound delivery

Vertical and horizontal mounting
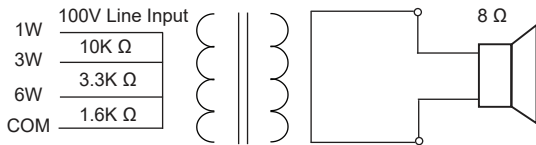
Introduction

A classic yet favourite model which is suitable for installations in small enclosed areas such as staircase, office, etc.

Available in white colour with multi tap matching transformer of 1 / 3 / and 6W 100V line, fit for vertical or horizontal installations.

Circuit Diagram

	100V Line Input		8 Ω
1W	10K Ω		
3W	3.3K Ω		
6W	1.6K Ω		
COM			

Physical Dimensions

195 mm

215 mm

amperes

Design Assistance

DV410 speaker is suitable for wall mount and ceiling slab mounting.

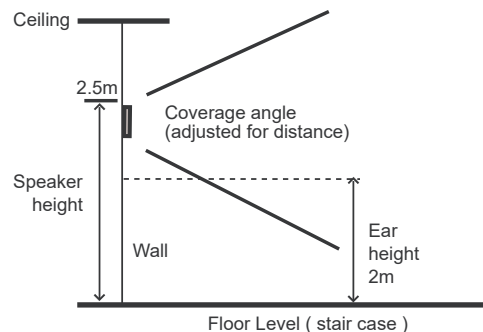They are widely used at staircase, small room, column beam and etc.

As a guideline, the placement of DV410 ceiling speakers shall be as :

Mounting Height	Distance of Speakers	Coverage Area
2.5 m or less	4 m	Appr 16 m sq
2.5 m to 4 m	3.5 m	Appr 12 m sq
4.0 m to 6 m		Appr 10 m sq

Note :
Based on 3W power input tapping to speakers, with targeted 85 dB at listening point.
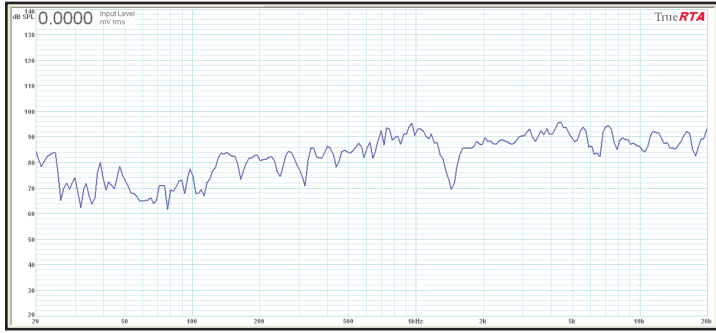Exclude power loss due to cablings

In order to hear properly, the sound source from speaker shall be minimum 6 dB above the background noise.

If the background noise is around 70 dB, such as in a shopping area with average crowd, the person shall be listening to the speaker sound at approximately 76 dB, at around 1.5 to 2m above floor level.
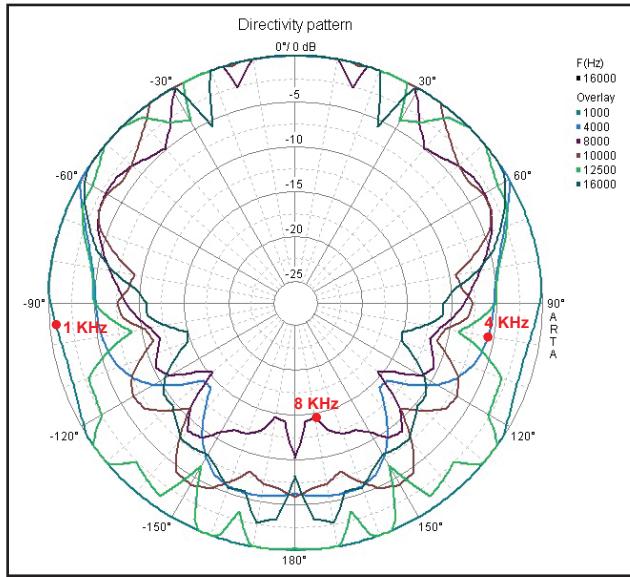
Ceiling

2.5m

Coverage angle (adjusted for distance)

Speaker height

Wall

Ear height 2m

Floor Level (stair case)

If the power input to DV410 is 3W, the SPL (1KHz) at 2 m from speaker shall be approximately 92 dB.With music source, the average SPL shall be 3 dB below; thereby the hearing shall be around 89 dB, which is rather comfortable level in a shopping mall.

Frequency Response Chart

Polar Chart

Technical Specifications

Speaker

Power rating	6W 100V line
Diameter	4" (101.6 mm)
Cone type	Dual Cone
Impedance	8 Ohm
Freq Response (-5dB)	100 - 18 KHz
SPL @ 1W / m (+/-3dB) ; 1 KHz	90 dB

Matching Transformer

Tapping (100V line input)	1 / 3 / 6W 100V line
Primary impedance	10 K / 3.3 K / 1.6 K Ohm
Secondary impedance	8 Ohm

Physical Dimensions

Grille / enclosure	ABS with metal grille
Overall size	195 x 215 x 105 mm
Weight	0.74 Kg
Colour	White

Safety Standards: EN55013   EN55020   EN61000

ISO 9001 : 2015
Design & Manufacture of Public Address Equipment and Systems
Certificate No. 16895 / A / 0001 / UK / En

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