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Designed for a wide variety of sound reinforcement applications the Tannoy Di is an ultra compact loudspeaker system capable of delivering high sound pressure levels with extremely low distortion, resulting in outstanding clarity, definition and detail. A truly universal solution, the Di offers outstanding durability and resistance to scuffs and knocks. Able to deliver consistent performance under a wide range of adverse conditions the Di is suited to applications indoors or out, whether it be a theme bar or theme park. Available in black or white the Di will effectively blend into most backgrounds. Utilisation of the point source loudspeaker allows the Di to be mounted on a wall or ceiling in either horizontal or vertical orientations without affecting its performance. A range of hardware options ensures simple and effective installation. Also available with built in line transformer.

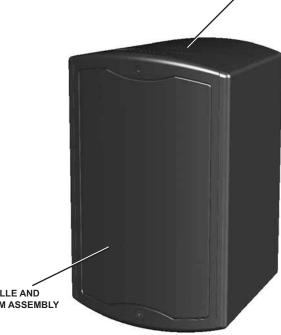
For applications requiring extended low frequency enhancement, a range of Tannoy sub-bass systems are available and can be used in conjunction with the Di.

Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. The user is responsible for fixing the hardware to the surface to ensure safe operation. The fixings must support the weight of the product please consult the manual's specification page for the appropriate weights. Please consult the relevant construction codes in your region for further information on suitable hardware fixing methods.
- 6. Some regional construction codes require the use of a secondary method of securing loudspeakers to surfaces to provide security of a back-up support. A secondary support line should be attached from the safety loop on the rear of the product to a source point on the wall. Please consult the relevant construction codes in your region.
- 7. Tannoy will not be held accountable for any damage caused by incorrect installation.

Product Identification

YOKE TRIM Remove the yoke trims on the top and bottom panels to access the yoke bracket fixing point



GRILLE AND TRIM ASSEMBLY

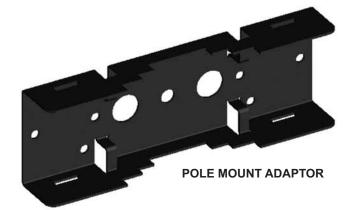


Standard Accessories



Optional Accessories





K-BALL[™] BRACKET

USING SUPPLIED YOKE BRACKET



Instantian Buideline

1. Fix the yoke bracket to the surface using a suitable fixing method.



2. Remove the yoke trims from the product to access the bracket fixing points.



6. Offer the speaker up to the bracket and attach <u>it using a 5mm allen key and supplied fixings.</u>

The buffers that fit between the speaker and bracket should be positioned as shown above. Use the longer hex-screws supplied when mounting the yoke bracket.

TRANSFORMER MODELS ONLY



10. The Di5t and Di5 DCt models are fitted with 30W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.



3. Remove the rubber grommet from the rear of – the speaker. Inclusion of the rubber grommet is only required if installing the product outdoors.



7. Connect the euro plug then replace the rubber grommet to ensure the speaker is watertight.



4. Feed the speaker cable through the rubber grommet then connect the euro-type plug to the wires, observing the correct polarity.



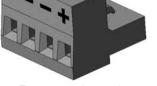
8. Connect a secondary support line to the safety tab at the rear of the cabinet.

TRANSFORMER MODELS ONLY



11. The Di6t, Di6 DCt, & Di8 DCt models are fitted with 60W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.





- **5.** For connection to the loudspeaker, use pins 1 (+) and 2 (-).
- Pins 3 (-) and 4 (+) are in parallel for connection to additional speakers in a distributed line. **Note:** Even if pins 3 and 4 are not used, they should be tightend to prevent the screws from vibrating.

TRANSFORMER MODELS ONLY



9. The rotary transformer tapping switch is found on the top of the Di5 models, and on the bottom of the Di6 and Di8 models.

Insta Matian Guidelines

USING OPTIONAL K-BALL[™] BRACKET



1. If attaching the K-Ball[™] bracket to a flush mounted inwall conduit junction box (J-box), pass the speaker wire through the bracket adaptor plate then attach the adaptor plate to the J-box using the fixings provided.

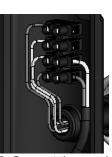


5. Offer the speaker up to the K-Ball[™] Bracket. Push the speaker onto the bracket to engage the euro plug.

TRANSFORMER MODELS ONLY



9. The rotary transformer tapping switch is found – on the top of the Di5 models, and on the bottom of the Di6 and Di8 models.



2. Connect the speaker wires to the connector block in the bracket. For connection to an amplifier use pins 1 (+) and 2 (-) Pins 3 (-) and 4 (+) are in parallel for connection to additional speakers in a distributed line.



6. Fit the rubber grommet and fingertighten the bracket bolt while supporting the speaker. If the connector has engaged properly the speaker will lock onto the bracket



3. If a conduit junction box has been used, offer the bracket up to the adaptor plate, with the foam gasket** squeezed in between the J-box and the wall. Attach the bracket to the surface using a suitable fixing method*.



7.Swivel the speaker into position then use a 19mm wrench to give another $2^{1}/_{2}$ turns to ensure the speaker is locked in position.



4. If you are attaching the bracket directly to a surface, offer the bracket up to the surface with the foam gasket** squeezed in between. Attach the bracket to the surface using a suitable fixing method*.



8. Connect a secondary support line to the safety tab at the rear of the cabinet.

NOTE

- * See safety notices on page 3
- ** The foam gasket is intended to provide a water tight seal. Inclusion of the foam gasket is only a requirement if installing outdoors.

TRANSFORMER MODELS ONLY



10. The Di5t and Di5 DCt models are fitted with 30W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

TRANSFORMER MODELS ONLY



11. The Di6t, Di6 DCt, & Di8 DCt models are fitted with 60W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

Insta Matian Guidelines

USING OPTIONAL POLE MOUNT ADAPTOR WITH SUPPLIED YOKE BRACKET



1. Use the supplied fixings to fix the yoke bracket to the pole bracket adaptor.

Note that the Di5 models require 2 fixing screws whereas the Di6 and Di8 models require 4 fixing screws.



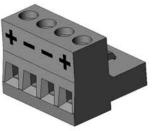
5. Feed the speaker cable through the rubber _____ grommet then connect the euro-type plug to the wires, observing the correct polarity.



9. Connect a secondary support line to the safety _____ tab at the rear of the cabinet.



2. Fix the pole mount bracket adaptor to the – pole using the strapping provided. The bracket can be mounted in portrait or landscape orientations.



6. For connection to the loudspeaker, use pins 1 → (+) and 2 (-)

Pins 3 (-) and 4 (+) are in parallel for connection to additional speakers in a distributed line. **Note:** Even if pins 3 and 4 are not used, they should be tightend to prevent the screws from vibrating.

TRANSFORMER MODELS ONLY



9. The rotary transformer tapping switch is found on the top of the Di5 models, and on the bottom of the Di6 and Di8 models.



3. Remove the yoke trims from the product to access the bracket fixing points.



4. Remove the rubber grommet from the rear of the speake. Inclusion of the rubber grommet is only required if installing the product outdoors.



7. Offer the speaker up to the bracket and attach it using a 5mm allen key and supplied fixings.

The buffers that fit between the speaker and bracket should be positioned as shown above. Use the longer hex-screws supplied when mounting the yoke bracket.

TRANSFORMER MODELS ONLY



11. The Di5t and Di5 DCt models are fitted ______ with 30W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.



8. Connect the euro plug then replace the rubber grommet to ensure the speaker is watertight.

TRANSFORMER MODELS ONLY



12. The Di6t, Di6 DCt, & Di8 DCt models are fitted with 60W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE.

IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.

Insta Matian Guidelines

USING POLE MOUNT ADAPTOR WITH OPTIONAL K-BALL™ BRACKET



1. Pass the speaker wire through the pole-mount – adaptor plate then fix the pole mount bracket adaptor to the pole using the strapping provided. The bracket can be mounted portrait or landscape orientations.



5. Remove the rubber grommet from the rear of ______ the speaker then offer the speaker up to the K-Ball[™] Bracket.

TRANSFORMER MODELS ONLY



9. The Di5t and Di5 DCt models are fitted with 30W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.



2. Connect the speaker wires to the connector block in the rear of the K-Ball[™] bracket. For connection to an amplifier use pins 1 (+) and 2 (-). Pins 3 (-) and 4 (+) are in parallel for connection to additional speakers in a distributed line.



6. Finger-tighten the bracket bolt to extend the bracket out to connect with the euro plug socket. Position speaker then use a 19mm wrench to give another $2^{1}/_{2}$ turns to ensure the speaker is locked in position.

TRANSFORMER MODELS ONLY



10. The Di6t, Di6 DCt, & Di8 DCt models are fitted with 60W transformers. THE SPEAKER IS SUPPLIED IN LOW IMPEDANCE MODE. NEVER CONNECT THE SPEAKER TO A 70/100 VOLT AMPLIFIER WHILE IT IS SET FOR LOW IMPEDANCE.



3. Offer the K-Ball[™] bracket up to the adaptor plate, with the foam gasket^{**} squeezed in between. Use the supplied fixings to fix the K-Ball[™] bracket to the pole bracket adaptor.



4. Fix the pole mount bracket adaptor to the pole using the strapping provided. The bracket can be mounted in portrait or landscape orientations.



7. Connect a secondary support line to the ______, safety tab at the rear of the cabinet.

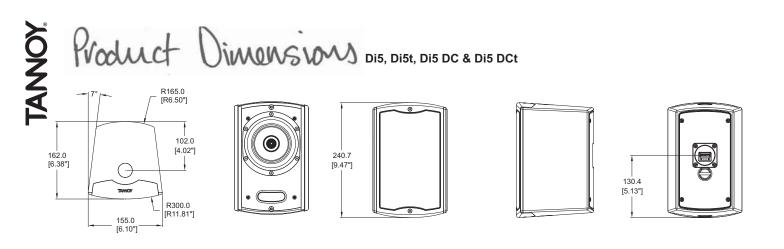
TRANSFORMER MODELS ONLY



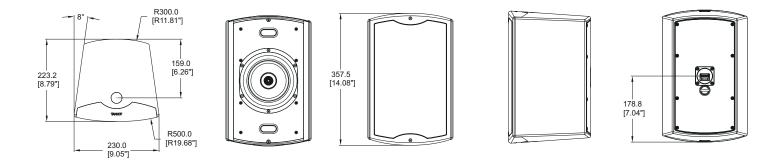
8. The rotary transformer tapping switch is found on the top of the Di5 models, and on the bottom of the Di6 and Di8 models.

NOTE

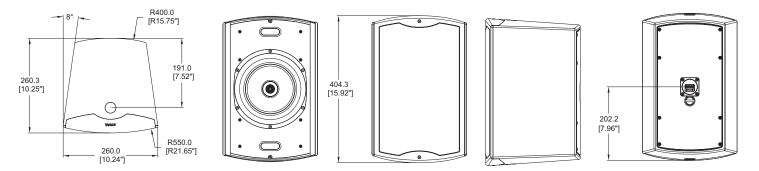
** The foam gasket is intended to provide a water tight seal. Inclusion of the foam gasket is only a requirement if installing outdoors.

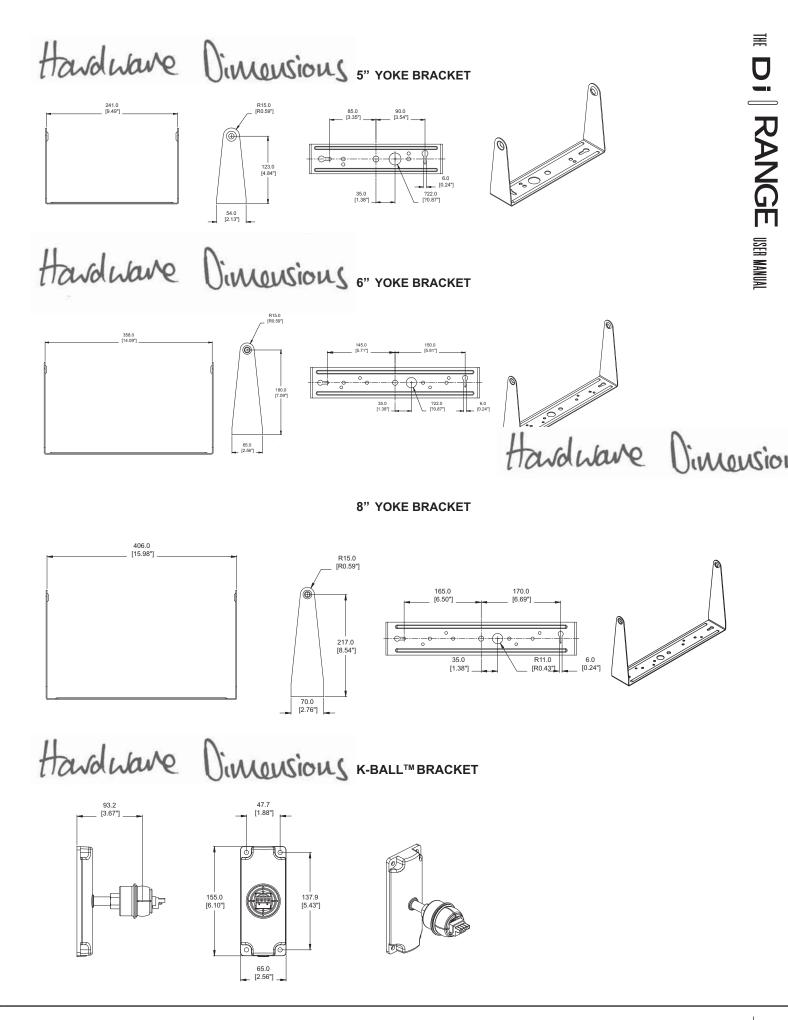


Product Dimensions Die, Diet, Die DC & Die DCt



Product Dimensions Dis DC & Dis DC &





		2 million C	MODELS			
		Di5		Di6		
SYSTEM						
Frequency Response (-3dB) ⁽¹⁾		90Hz - 25kH		75Hz - 22kH		
Frequency Range (-10dB) ⁽¹⁾		80Hz - 30kH	Z	55Hz - 24kH	Z	
System Sensitivity (1W @1m) 1W = 2.45V for 6 Ohms	2)	88dB		90dB		
Dispersion Degrees conical -6dB		90		90		
Low Frequency Driver Mineral loaded polypropylene		1x 110mm (4.50")	1x 165mm (6.50")	
High Frequency Driver		ICT [™]		ICT™		
Crossover Inductively Coupled ICT™		7kHz		7kHz		
Directivity Factor (Q)	1kHz to 10kHz	5.3 average	d	10.5 average	əd	
Directivity Index (DI)	1kHz to 10kHz	6.6 average	d	8.4 averaged	t	
Rated Maximum SPL (2)	Average Peak	105dB 111dB		107dB 113dB		
Power Handling	Average Programme Peak	50W 100W 200W		60W 120W 240W		
		100W @ 6 C	Jhme	120W @ 6 C	hme	
Recommended Amplifier Power Nominal Impedance		6 Ohms	-		/11113	
Distortion 10% Full Power	(5	.5V) 2nd Harmonic	3rd Harmonia	6 Ohms (6.0V) 2nd Harmoni	o 3rd Harm	
250Hz	(5	2.00%	0.26%	(0.0V) 2nd Harmon 1.86%	0.12%	
1kHz		0.53%	0.19%	1.17%	0.54%	
10kHz		2.50%	0.35%	1.10%	0.04%	
Distortion 1% Full Power	(1.	73V) 2nd Harmonic	/) 2nd Harmonic 3rd Harmonic (1		1.9V) 2nd Harmonic 3rd Harmo	
250Hz		0.65%	0.09%	0.70%	0.14%	
1kHz		0.144%	0.11%	0.45%	0.39%	
		0.52%	0.298%	0.25%	0.065	
Enclosure	10/2	other resistant high	. imment mehret me			
Grille	Weather resistant high impact polystyrene (HIPS), IP64 to EN60529 (IEC529					
Finish	Steel, with weather resistant coating					
	Textured black or white paint Removable locking Euroblock type connector with screw terminals and "loop through" facility					
Connectors						
Eittin ve						
Fittings	1 x socket for K-Ball™ bracket and 2 x M8 yoke bracket ins Yoke bracket		it insens			
Supplied Accessory		040 7 155			0000.0	
Dimensions (H x W x D)		240.7 x 155. 9.47 x 6.10 x	0 x 162.0mm (6.38"	357.5 x 230. 14.08 x 9.05		
Weight		2.2kg (4.85ll		3.7kg (8.15l		

TRANSFORMER VERSIONS Specifications as above exce	-	Di5t	Di6t
Transformer Taps Rotary switch mounted under trim	70V	30W / 15W / 7.5W / 3.75W / OFF & Low Impedance operation	60W / 30W / 15W / 7.5W / OFF & Low Impedance operation
	100V	30W / 15W / 7.5W / OFF & Low Impedance operation	60W / 30W /15W / OFF & Low Impedance operation
* Rated Maximum SPL (2)	Average	103dB (using 30W transformer tap)	107dB (using 60W transformer tap)
Weight		2.7kg (5.94lbs)	5.0kg (11.02lbs)

* See Passive models above for max SPL figures on low impedance settings.

Notes: (1) Average over stated bandwidth. Measured at 1 metre on axis in an anechoic chamber (2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber A full range of measurements, performance data, and EaseTM Data can be downloaded from www.tannoy.com Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice.

Specifications dual concentric models

	Di5 DC	Di6 DC	Di8 DC		
SYSTEM					
Frequency Response (-3dB) ⁽¹⁾	90Hz - 50kHz	75Hz - 30kHz	65Hz - 30kHz		
Frequency Range (-10dB) ⁽¹⁾	80Hz - 54kHz	55Hz - 35kHz	53Hz - 35kHz		
System Sensitivity (1W @1m) ⁽²⁾ 1W = 2.83V for 8 Ohms	88dB	89dB	91dB		
Dispersion Degrees conical -6dB	90	90	90		
Low Frequency Driver Dual Concentric™ constant directivity driver with a resin treated multi fibre paper pulp cone	1x 110mm (4.50")	1x 165mm (6.50")	1x 200mm (8.00")		
High Frequency Driver titanium dome with neodymium magnet system	19mm (0.75")	25mm (1.00")	25mm (1.00")		
Crossover	2kHz - 2nd order LF, 2nd order HF with Dynamic HF protection	1.6kHz - 2nd order LF, 2nd order HF with Dynamic HF protection	1.5kHz - 2nd order LF, 2nd order HF with Dynamic HF protection		
Directivity Factor (Q) 1kHz to 10kHz	5.3 averaged	5.6 averaged	5.5 averaged		
Directivity Index (DI) 1kHz to 10kHz	6.6 averaged	7.0 averaged	7.0 averaged		
Rated Maximum SPL ⁽²⁾ Average Peak	106dB 112dB	109dB 115dB	111dB 117dB		
Power Handling Average Programme Peak	60W 120W 240W	90W 180W 360W	90W 180W 360W		
Recommended Amplifier Power	120W @ 8 Ohms	180W @ 8 Ohms	180W @ 8 Ohms		
Nominal Impedance	8 Ohms	8 Ohms	8 Ohms		
250Hz 1kHz 10kHz	6.9V) 2nd Harmonic 3rd Harmonic 4.00% 0.20% 0.76% 0.60% 0.65% 0.15% 2.2V) 2nd Harmonic 2.00% 0.15% 0.009% 0.124% 0.32% 0.17%	(8.0V) 2nd Harmonic 3rd Harmonic 1.00% 0.32% 0.18% 0.32% 1.00% 0.18% (2.5V) 2nd Harmonic 3rd Harmonic 0.25% 0.25% 0.06% 0.18% 0.45% 0.14%	(8.5V) 2nd Harmonic 3rd Harmonic 1.55% 0.42% 0.41% 0.63% 1.20% 0.65% (2.7V) 2nd Harmonic 3rd Harmonic 0.43% 0.48% 0.07% 0.47% 0.55% 0.13%		
			100500 (150500)		
Enclosure	Weather resistant high impact polystyrene (HIPS), IP64 to EN60529 (IEC529)				
Grille	Steel, with weather resistant coating				
Finish	Textured black or white paint				
Connectors	Removable locking Euroblock type connector				
	with screw terminals and "loop through" facility 1 x socket for K-Ball™ bracket and 2 x M8 yoke bracket inserts				

Fittings 1 x socket for K-Ball™ bracket and 2 x M8 yoke bracket inserts Supplied Accessory Yoke bracket Dimensions (H x W x D) 240.7 x 155.0 x 162.0mm 357.5 x 230.0 x 223.2mm 404.3 x 260.0 x 260.3mm 9.47 x 6.10 x 6.38" 14.08 x 9.05 x 8.79" 15.92 x 10.24 x 10.25" Weight 2.2kg (4.85lbs) 5.0kg (11.02lbs) 6.0kg (13.23lbs) TRANSFORMER VERSIONS Di5 DCt Di6 DCt Di8 DCt Specifications as above except: 30W / 15W / 7.5W / 3.75W / OFF & Low Impedance operation 60W / 30W / 15W / 7.5W / OFF & Low Impedance operation Transformer Taps Rotary switch 60W / 30W / 15W / 7.5W / OFF 70V & Low Impedance operation mounted under trim 30W / 15W / 7.5W / OFF & 60W / 30W / 15W / 7.5W / OFF 60W / 30W / 15W / OFF & 100V Low Impedance operation Low Impedance operation Low Impedance operation * Rated Maximum SPL (2) 106dB (103dB - 30W transformer tap) 109dB (107dB - 60W transformer tap) 111dB (109dB - 60W transformer tap) Average Weight 2.7kg (5.95lbs) 5.5kg (12.12lbs) 7.0kg (15.87lbs)

* See Passive models above for max SPL figures on low impedance settings.

Notes: (1) Average over stated bandwidth. Measured at 1 metre on axis in an anechoic chamber (2) Unweighted pink noise input, measured at 1 metre in an anechoic chamber A full range of measurements, performance data, and EaseTM Data can be downloaded from www.tannoy.com Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the published specifications, which Tannoy reserves the right to alter without prior notice.

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Removal of loudspeaker from K-Ballm

- 1. Loosen the K-Ball[™] bracket bolt.
- 2. Push the loudspeaker towards the bracket to allow the ball joint to collapse.
- 3. Pull speaker towards you to remove it from the K-Ball[™] bracket.

Warrant

No maintenance of the Di loudspeaker is necessary.

All of our products have been produced and tested with care and precision to give first-class service.

All passive components are guaranteed for a period of five years from the date of purchase from an authorised Tannoy dealer subject to the absence or evidence of misuse, overload, or accidental damage.

All active and electronic components are guaranteed for a period of one year from the date of purchase from an authorised Tannoy dealer subject to the absence of, or evidence of, misuse, overload or accidental damage.

If at any time during this warranty period the equipment proves to be defective for any reason other than accident, misuse, neglect, unauthorised modification or fair wear and tear, we will repair any such manufacturing defect or, at our option, replace it without charge for labour, parts or return carriage.

If you suspect a problem with a Tannoy product then, in the first instance, discuss it with your Tannoy dealer. If you require further assistance then we ask that you deal directly with your local Tannoy distributor. If you cannot locate your distributor please contact Customer Services, Tannoy Ltd at the address given below.

Customer Services, Tannoy Ltd., Rosehall Industrial Estate, Coatbridge, Strathclyde ML5 4TF, Scotland

Telephone:	01236 420199	(National)	
	+44 1236 420199	(International)	
Fax:	01236 428230	(National)	
	+44 1236 428230	(International)	
E-mail:	enquiries@tannoy.com		

DO NOT SHIP ANY PRODUCT TO TANNOY WITHOUT PREVIOUS AUTHORISATION

Our policy commits us to incorporating improvements to our products through continuous research and development. Please confirm current specifications for critical applications with your supplier.

Declavation of Confarmily

The following apparatus is manufactured in China for Tannoy Ltd of Rosehall Industrial Estate, Coatbridge, Scotland, ML5 4TF and conform(s) to the protection requirements of the European Electromagnetic Compatibility Standards and Directives relevant to Domestic Electrical Equipment. The apparatus is designed and constructed such that electromagnetic disturbances generated do not exceed levels allowing radio and telecommunications equipment and other apparatus to operate as intended, and, the apparatus has an adequate level of intrinsic immunity to electromagnetic disturbance to enable operation as specified and intended.

Details of the Apparatus:

Associated Technical File: Applicable Standards:

Signed: Position:

Date:

Tannoy Contractor Loudspeaker Model Number: Di EMCi6 EN 50081-1 Emission EN 50082-1 Immunity

Director of I 11th Dec. 0

Director of Engineering (Professional) 11th Dec. 06

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