The iw62 TDC is a full bandwidth in wall speaker system, using a 165mm (6.50”) Tannoy Dual Concentric™ point source, constant directivity drive unit with an additional 165mm (6.50”) bass driver and 25mm (1.00”) Tannoy SuperTweeter™. Designed primarily for installation into standard stud partition wall systems, it may also be used in cavity wall installations constructed with standard thickness drywall as well as a wide range of other wall construction types with a surface thickness of up to 25mm (1.00”).

The 165mm (6.50”) Tannoy Dual Concentric™ drive unit comprises a multi fibre paper pulp mid bass cone and a 25mm (1.00”) ferrofluid cooled, titanium dome HF unit with neodymium magnet system. The mid-bass and tweeter sections of this constant directivity driver are coincidentally aligned to a true point source; ensuring a wide and controlled dispersion for optimum coverage; this while avoiding the massive loss of energy, in the vertical plane at the crossover frequency, inherent in two-way discrete designs.

An additional acoustically matched 165mm (6.50”) bass driver delivers low frequency reinforcement for the Dual, while a 25mm (1.00”) titanium dome SuperTweeter™ extends the frequency bandwidth out to over 50kHz. Not only does this further enhance the already class leading, low distortion performance with an exceptionally natural and open soundstage, it also ensures that this is a high output, high impact performer. The iw6 TDC is equipped with dynamic high frequency protection.

The drivers and passive frequency dividing network are mounted in an injection moulded, paintable front baffle manufactured from UV/weather resistant UL94V-0 ABS material. The class leading performance is further enhanced by the inclusion of eight self aligning, spring loaded clamps; allowing for quick install but also for simple removal or reorientation of the loudspeaker. The rigidity of the clamps and baffle combination crucially provides the acoustically optimum bond to the wall surface without risk of distortion to the baffle itself. Gold plated spring loaded terminals are provided for ease of installation and a steel back can is available as an optional installation accessory.

Complementing any style of decor, the perforated metal grille and discreet moulded baffle can be painted to blend seamlessly with any environment. Ideally suited to applications requiring the combination of intelligibility, premium sonic quality for music and speech reinforcement and exceptional reliability, the high power handling iw62 TDC is particularly suited to custom AV installations and business music systems.
iw62 TDC

TECHNICAL SPECIFICATIONS

**System**
iw62 TDC

- Frequency Response (-3dB) 70Hz - 51kHz
- Frequency Range (-10dB) 34Hz - 54kHz
- System Sensitivity (1W @1m) 92dB (1W - 2.83V for 8 Ohms)
- Nominal Coverage Angle 90 degrees conical
- Coverage Angle (1kHz to 6kHz) 120 degrees conical
- Directivity Factor (Q) 4.6 averaged 1kHz to 6kHz
- Directivity Index (DI) 6.0 averaged 1kHz to 6kHz

**Rated Maximum SPL**
- Average 112dB
- Average 110dB (with optional THP60 transformer)
- Peak 118dB

**Power Handling**
- Average 105W
- Programmed 210W
- Peak 420W

**Recommended Amplifier Power** 210W @ 8 Ohms

**Nominal Impedance** 8 Ohms

**Distortion**
- 10% Full Power (5.5V) 2nd Harmonic 0.64% 3rd Harmonic 0.06%
- 1kHz 0.6% 0.52%
- 10kHz 0.69% 0.06%
- 1% Full Power (1.73V) 2nd Harmonic 0.18% 3rd Harmonic 0.11%
- 1kHz 0.08% 0.23%
- 10kHz 0.27% 0.17%

**Crossover** Passive, 750Hz, 1.8Hz, 16Hz

**Notes:**
1. Average over stated bandwidth. Measured at 1 metre on axis.
2. Unweighted pink noise input, measured at 1 metre in an anechoic chamber

A full range of measurements, performance data, CLF and Ease™ Data can be downloaded from www.tannoy.com

Full independent verification of published specifications carried out by NWAA Labs, California can also be obtained from the downloads section of 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. Please verify the latest specifications when dealing with critical applications.

**Ordering Information**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MODEL NAME</th>
<th>COLOUR</th>
<th>PACKED QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>8000 3770</td>
<td>iw62 TDC</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**Transducers**

- **Dual Concentric™**
- **Low Frequency** 1 x 165mm (6.50") with multi fibre paper pulp cone
- **High Frequency** 19mm (0.75") titanium dome with neodymium magnet system

- **Supertweeter™**
- **Low Frequency** 1 x 165mm (6.50") additional bass driver

**Physical**

- **Enclosure** Baffle UL 94V-0 rated ABS
- **Grille** Aluminum, with weather resistant coating
- **Back can** Zinc plated steel
- **Clamping Design** Eight way self aligning security toggle clamp system
- **Connectors** Gold plated connectors with spring terminals

**Hole Cutout Size**

426.10 x 187.6 (16.76 x 7.39")

**Dimensions**

Front Baffle 473.5mm x 227mm (18.64" x 8.94")

Front of wall to rear of magnet assembly 99mm (3.90")

**Net Weight** 5kg (11lbs)

**Included Accessories**
- Painted mask, cutout template, grille
- Steel back can
- Steel back can with THP60 transformer
- Plaster (mud) ring

**Transformer Taps (optional)**

- **70V**
  - 60W / 30W / 15W / 7.5W / OFF & Low Impedence operation
- **100V**
  - 60W / 30W / 15W / 7.5W / OFF & Low Impedence operation

**tannoy.com**

Tannoy Direct (UK) T: 00 44 (0) 1236 420199 E: enquiries@tannoy.com
TCGI (ROW sales) T: 00 45 8742 7000 E: info@tcgroup-international.com
TCGA (Americas sales) T: 00 1 (519) 745 1158 E: info@tcncom-americas.com
Tannoy Middle East T: 00 971 (04) 4401208 E: enquiries@tannoy.com

Tannoy adopts a policy of continuous improvement and product specification is subject to change.

IW62TDC data file issue:1.08 / 15.12.10
iw62 TDC

PERFORMANCE MEASUREMENTS

ANECHOIC FREQUENCY RESPONSE

1m on-axis frequency response

IMPEDANCE

Impedance vs frequency

OFF AXIS RESPONSE

Horizontal off-axis response
PERFORMANCE MEASUREMENTS

**Beamwidth vs Frequency**

- Frequency (Hz)
- Degrees

**DI vs Frequency**

- Q
- Degrees
- Frequency (Hz)

**Directivity Index**

**Beamwidth**

**Directivity Index**
PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)
iW62 TDC

DIMENSIONAL SKETCHES

TEMPLATE HOLE CUTOUT SIZE - 430mm x 193mm [16.93" x 7.60"]

186.5mm (7.34")
473.5mm (18.64")
98.9mm (3.89")
5.0mm (0.20")

186.5mm (7.34")
425.0mm (16.73")

227.0mm (8.94")
473.5mm (18.64")
425.0mm (16.73")

TEMPLATE HOLE CUTOUT SIZE - 430mm X 193mm {16.93’ x 7.30’}
iW62 TDC

IN WALL BACK CAN ACCESSORY

WALL COVERING MATERIAL FITTED AFTER BACK CAN HAS BEEN INSTALLED IN POSITION.

Ordering Information

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>MODEL NAME</th>
<th>BAFFLE / GRILLE COLOUR</th>
<th>PACKED QUANTITY</th>
<th>PACKED WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8000 4220</td>
<td>iW62 TDC/TS Back Can</td>
<td>Unpainted Steel</td>
<td>1</td>
<td>9.50Kgs (20.90lbs)</td>
</tr>
<tr>
<td>8000 4240</td>
<td>iW62 TDC/TS Transformer Back Can</td>
<td>Unpainted Steel</td>
<td>1</td>
<td>10.50Kgs (23.1lbs)</td>
</tr>
<tr>
<td>8000 4260</td>
<td>Pre-install mounting ring for iW62 TDC/TS</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Tannoy adopts a policy of continuous improvement and product specification is subject to change.
Architectural specifications

The in wall speaker shall consist of one 165mm (6.50") Dual Concentric™ full range transducer, one 25mm (1.00") SuperTweeter™ and one 165mm (6.50") bass driver, mounted in an injection moulded front baffle manufactured from UV/weather resistant UL94V-0 ABS material. The three-way system shall incorporate an optimised low loss crossover network. The wiring terminals shall be gold plated spring loaded connectors.

Performance of the in-wall speaker shall meet or exceed the following criteria: The system shall have a coverage angle of 120 degrees (1kHz to 6kHz). Frequency response measured on axis shall be 34Hz - 54kHz (-10dB from rated sensitivity, measured in an IEC baffle in an anechoic chamber) with no equalization. Sensitivity shall be 92dB (1W @ 1m). Long term power handling capacity as defined in EIA-426B test shall be 105W, recommended amplifier power 220W @ 8 Ohms. The nominal system impedance shall be 8 Ohms.

In 70V or 100V distributed audio systems the iw62 TDC can be used with the optional the THP60 high performance, low insertion loss transformer with 60, 30, 15 and 7.5W taps* available. A weather resistant perforated aluminum grille covers the transducer. Both the grille and baffle shall be paintable.

The system shall not exceed the following dimensions: 473.50 x 227 or 18.64 x 8.94 (H x W).
Hole cut out size shall be 426.10 x 187.6mm or 16.76 x 7.39*

The in wall speaker system shall be the.....iw62 TDC.

*70.7 Volt only
iw62 TDC