

AMS —

**WE CHALLENGE YOU  
TO A DUAL.**



**TANNOY®**



# DUAL CONCENTRIC — TECHNOLOGY

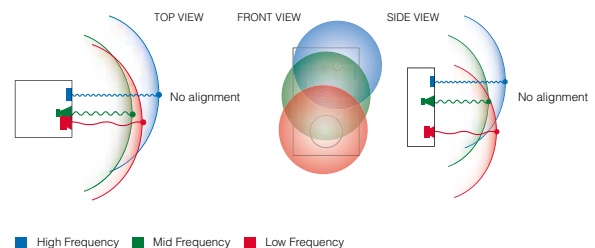
## TANNOY DUAL CONCENTRIC™ HAS ITS ORIGINS IN MANY OF THE WORLD'S HIGH END RECORDING STUDIOS.

Tannoy Dual Concentric has its origins in many of the world's high end recording studios. Introducing the latest generation into our AMS DC models ensures that playback of recorded material sounds exactly as the engineer intended, making them perfect for entertainment and hospitality venues.

### DUAL CONCENTRIC BENEFITS

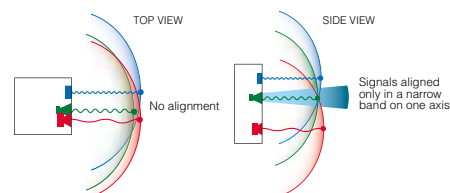
#### Conventional Method

Discrete driver speaker systems cannot reproduce signals accurately because their sources are displaced in space.



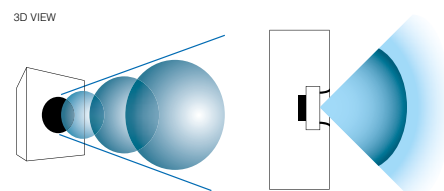
#### Conventional Method with Delay

Even when delays are applied to compensate for driver alignment, signals can only be aligned along a narrow listening plane on one axis.



#### Dual Concentric

In a Dual Concentric driver the signal sources are perfectly aligned, resulting in a smooth response and a wide listening area in both horizontal and vertical axes.



# OMNIMAGNET™ — DRIVER

This latest generation of Dual Concentric drivers used in AMS has its genesis in many of the world's high end recording studios, where Tannoy's benchmark technology is still used to mix and master a rich collection of legendary and contemporary classics. With wider directivity at high frequencies and a 65% improvement in time domain

coherence, the new AMS loudspeakers ensure that playback of recorded material sounds exactly as the engineer intended when it was mixed in the studio, making them perfect for indoor and outdoor entertainment venues – in fact anywhere true sonic clarity and long term reliability is essential.

## Ogive phase plug

Ogive refers to the mathematical definition of the streamlined, 'rocket cone' shaped phase plug in the waveguide assembly. This assists the critical shortening in the propagation path of the acoustic wavefront.

## Torus Ogive Waveguide™

Shallower waveguide with a more aggressive flare allows rapid expansion of the acoustic wavefront through the mouth of the bass driver.

## High frequency Torus dome

Torus refers to the donut shape of the HF diaphragm. Within the design, the HF 'dome' and the precision engineered Torus Ogive Waveguide are brought further forward, providing wider high frequency directivity.

## Omnimagnet™ technology

High frequency and low frequency drive units utilise a single shared magnet, offering improved time alignment and coherence. A completely new interpretation of Tannoy's proprietary point source drive unit design philosophy.





## NEW FEATURES

As well as a completely new Dual Concentric driver design, the new AMS also features a host of mechanical and aesthetic changes that make the process of specifying, installing and commissioning easier than ever before, from

new hardware, to the architecturally sympathetic curvature of the cabinet. All in all, these changes help make AMS the most compelling choice on the market for premier grade surface mount loudspeaker requirements.

### Transformer taps

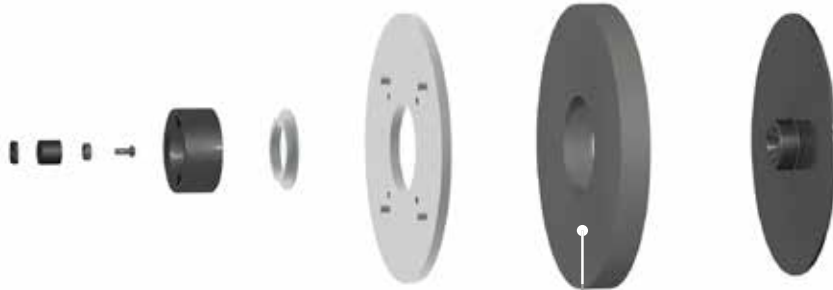
For constant voltage systems, Tannoy has specified as standard, high quality low-insertion loss 30 W transformers featuring switching for taps at 30 W, 15 W and 7.5 W, with an additional 3.75 W tap for traditional systems.

### Bracket fitting

Our Yoke Bracket (supplied as standard) incorporates serrated edges that interlock with the enclosure fixing to provide a guaranteed slip free mechanism when mounted in a horizontal or vertical orientation.

### Cabinet

The AMS series takes on an aesthetic that is perfect for the architectural considerations of building design, the elegantly styled moulded enclosures blend beautifully into a contemporary décor with custom colour being available on special order.



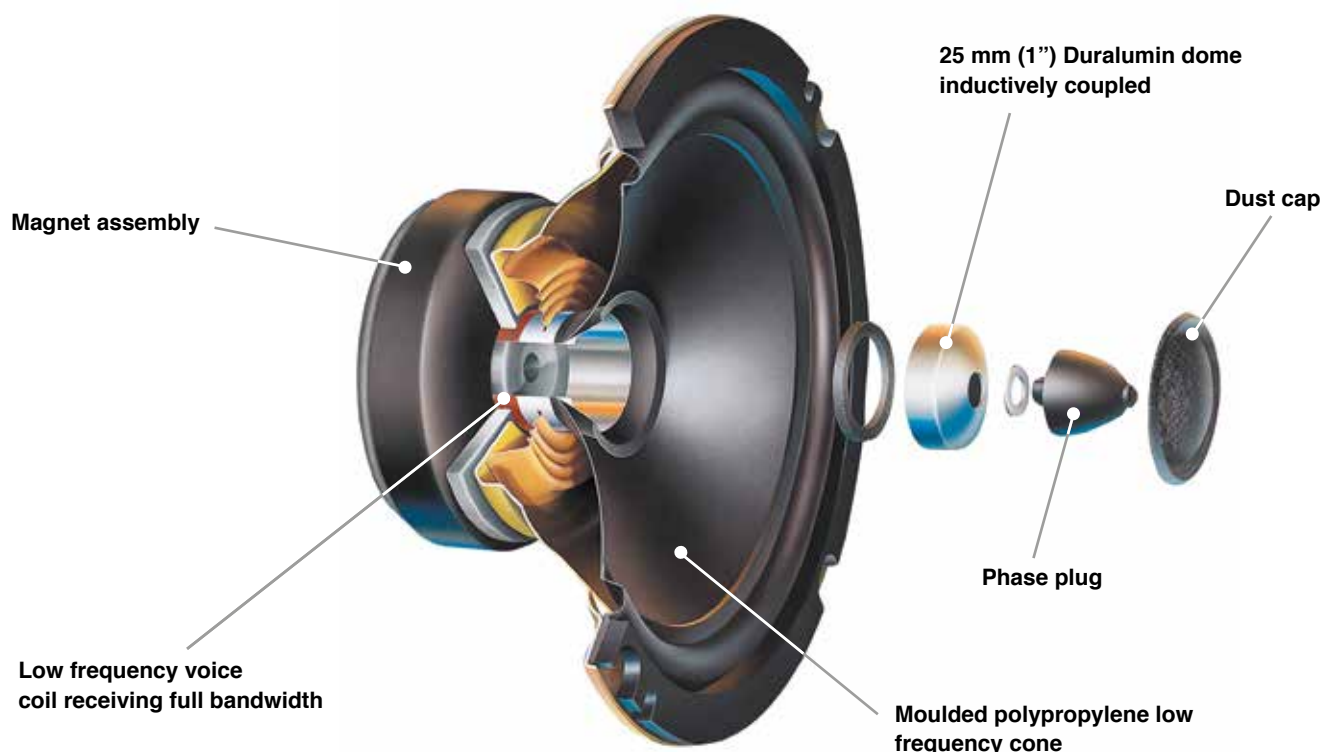
# TECHNOLOGY — ICT DRIVER

**OUR ICT™ MODELS DO NOT REQUIRE A CROSSOVER  
MAKING THEM EXCEPTIONALLY RELIABLE AND  
IDEAL FOR APPLICATIONS WHERE CONSTANT  
HEAVY USAGE IS THE NORM.**

The point-source configuration of the Tannoy ICT driver's mid-bass and tweeter sections ensures a wide and controlled dispersion for optimum coverage.

The use of an inductively coupled 25 mm (1") Duralumin domed wireless electromagnetic tweeter means that no crossover is required in the design. The high frequency

dome has a deep drawn skirt that sits on the inside of the low frequency voice coil in the same magnetic gap. Like a single shorted turn, it is induced with high frequency information generated by the low frequency.



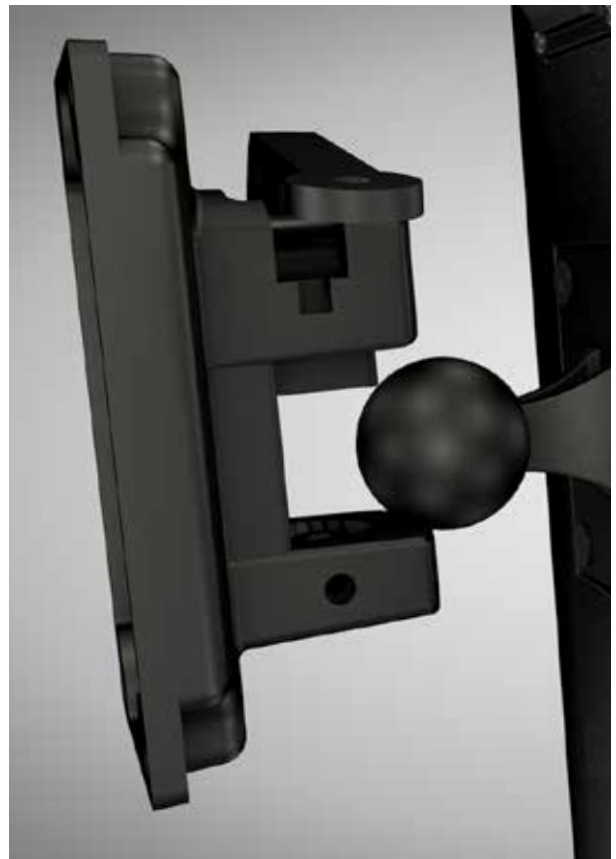
# PRODUCT — HARDWARE

## VARIBALL

Our new VariBALL bracket system has been developed to ensure a fast and safe single person install, while allowing for the enclosure to be positioned at the optimum listening angle no matter where the loudspeaker is situated.

Once the optimum dispersion angle has been achieved a locking screw ensures the enclosure is fixed for life. All of our hardware is designed to a 5:1 safety ratio for added peace of mind.

**OUR MOUNTING  
HARDWARE IS RATED TO  
A 5:1 SAFETY FACTOR.**



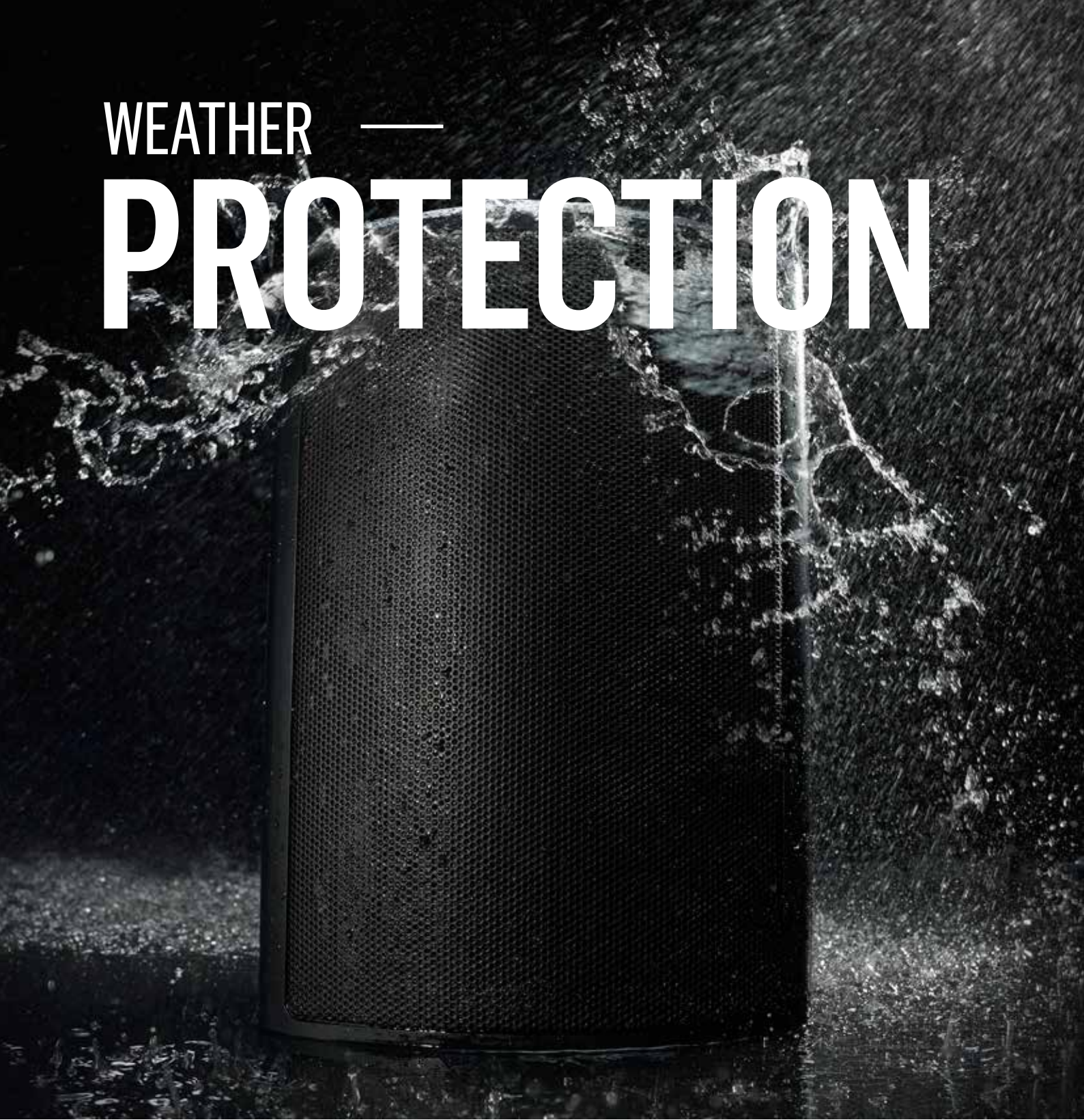
## YOKE

Our Yoke Bracket (supplied as standard) incorporates serrated edges that interlock with the enclosure fixing to provide a guaranteed slip free mechanism when mounted in a horizontal or vertical orientation.





WEATHER —  
**PROTECTION**





# WITHSTANDING THE MOST RIGOROUS ENVIRONMENTAL TESTING IN TANNOY'S HISTORY, AMS HAS ACHIEVED IP65 RATING, WHICH IS AMONGST THE HIGHEST IN THE INDUSTRY.



We've subjected the AMS range to the most rigorous environmental testing in Tannoy's history – achieving a category-leading IP65 rating which is amongst the highest in the industry. This extreme level of durability means that the impeccably styled enclosures are designed to look and sound fantastic years after being installed. .

AMS Series has been engineered to a high performance Weather Protected (WP) specification, achieving an Ingress Protection rating of IP65. The range has been subjected to a series of accelerated environmental tests to ensure long term reliability in a variety of applications, including extensive Corrosion resistance tests consisting of 20% salt and hypochlorite solution exposure for 100 hours.

## WP FEATURES

- High temperature resistant ABS enclosure material rated at 120 degrees celsius
- External hardware components utilise corrosion resistant high quality stainless steel
- The grille and yoke bracket are manufactured from steel to provide strength and then coated using a zinc nickel plating / powder coat paint finish to increase wear resistance and weatherisation
- A weatherproof cable gland cover is included to protect the input connector and tapping selector switch

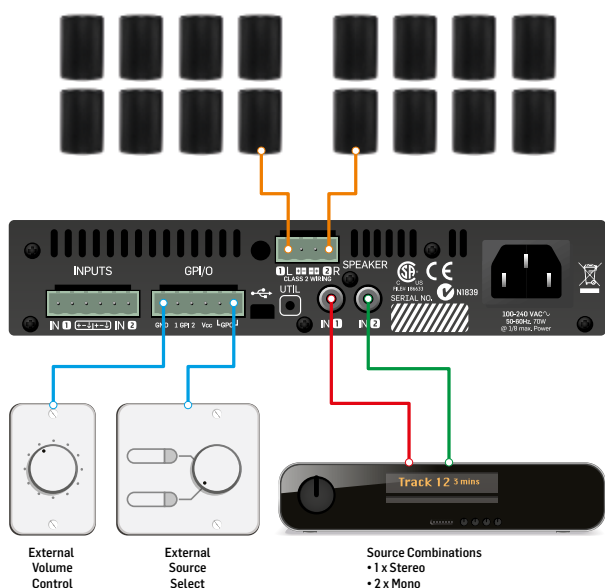
UL1480 UUMW (LS) models have been engineered specifically for fire alarm and mission critical applications using a specific ABS enclosure material chosen for its fire resistant properties. Additional performance endurance and corrosion tests have also been carried out in accordance with these regulations.



# A SYSTEM — APPROACH

THE AMS RANGE UTILISES A 16 OHM DRIVER,  
MAKING IT IDEAL FOR USE IN HIGH PERFORMANCE  
LOW-IMPEDANCE SYSTEMS

For optimized performance, using Lab.gruppen's compact LUCIA amplifier allows you to power eight AMS Series loudspeakers per channel.



With LUCIA, Lab.gruppen brings enhanced audio performance and greater flexibility to a decentralized approach in AV systems design, putting power, processing, control and I/O exactly where it is needed, when high quality audio is required. LUCIA offers system designers a logical, cost-efficient and scalable alternative to complex and costly distributed systems which often require separate rack-mounted amplification, matrixing and processing. All six LUCIA models feature custom EQ, automatic power on/off, natural sounding limiters and Automatic Dynamic Loudness Contouring. This makes them very easy to integrate without having to worry about power sequencing or different presets for separate applications.





# PRODUCT — OVERVIEW



AMS 5



AMS 6



AMS 8

## SPECIFICATIONS

Model	Dispersion	Frequency Range (-10 dB)	Sensitivity	Rated SPL (avg.)	Recommended Amplifier Power (@ 16 ohms)	Dimensions (H x W x D)
AMS 5DC	90 °	80 Hz - 40 kHz	87 dB	105 dB	120 W	240.0 x 155.0 x 159.5 mm (exc bracket) 248.0 x 155.0 x 203.9 mm (inc bracket)
AMS 5ICT	90 °	80 Hz - 30 kHz	88 dB	105 dB	100 W	240.0 x 155.0 x 159.5 mm (exc bracket) 248.0 x 155.0 x 203.9 mm (inc bracket)
AMS 5ICT LS	90 °	80 Hz - 30 kHz	88 dB	105 dB	100 W	240.0 x 155.0 x 159.5 mm (exc bracket) 248.0 x 155.0 x 203.9 mm (inc bracket)
AMS 6DC	90 °	55 Hz - 40 kHz	89 dB	108 dB	160 W	360.9 x 230.0 x 223.7 mm (exc bracket) 364.8 x 230.0 x 268.8 mm (inc bracket)
AMS 6ICT	90 °	55 Hz - 30 kHz	90 dB	108 dB	120 W	360.9 x 230.0 x 223.7 mm (exc bracket) 364.8 x 230.0 x 268.8 mm (inc bracket)
AMS 6ICT LS	90 °	55 Hz - 30 kHz	90 dB	108 dB	120 W	360.9 x 230.0 x 223.7 mm (exc bracket) 364.8 x 230.0 x 268.8 mm (inc bracket)
AMS 8DC	90 °	53 Hz - 40 kHz	92 dB	111 dB	180 W	407.5 x 260.0 x 259.7 mm (exc bracket) 409.8 x 260.0 x 306.3 mm (inc bracket)

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