

REVEAL

The distinctive front panel of the Tannoy Reveal is not just for show; the curved baffle has been precisely designed to reduce diffraction and at 40mm thick is massive enough to provide the most rigid mounting platform for the drive units. A 25mm soft dome tweeter is matched with a 165mm long-throw bass unit by a low-loss crossover. Both drivers are magnetically shielded, allowing operation close to video monitors.

The sound quality of the Reveal is relied upon daily by many thousands of engineers worldwide, and it is now firmly established as an industry standard for cost-effective nearfield monitoring.



REVEAL ACTIVE

An active version of the Reveal is a natural progression. Two 50W amplifiers and an electronic crossover directly coupled to the drive units provide ideal driving of the Reveal and we were careful to avoid major changes to the critical balance and sound of the passive version. This allows you to move recorded material between rooms and locations using passive and active Reveals - and rely equally on both. Passive and active systems can also be used together if you are moving up from stereo to surround monitoring – for example using a Reveal Active for the centre channel with your existing passive Reveals for left, right and rear.

REVEAL SYSTEMS

Manufacturers don't set industry standards; engineers and studios do by choosing the product they use.

Over the last few years the Reveal has become firmly established as a standard for nearfield monitoring with recording, mixing, editing and broadcast engineers and studios worldwide.

The Reveal range is designed to maintain that standard and provide Reveal solutions for a wider range of monitoring

applications. Active versions provide optimised one-box solutions. Active sub-bass units extend the low frequency range and performance and increase power in stereo set-ups. Higher power versions provide greater SPL for dance music monitoring. Centre channels and subs provide a variety of solutions for surround monitoring.

Because we've added to the standard, and not changed it, existing Reveal monitoring systems can be upgraded simply – providing the solution you need, now or in the future.



REVEAL X

Reveal X has two main applications:

Firstly as a dedicated centre channel monitor in a Reveal 5.1 surround system. Its low profile is necessary for many installations but it is critical to maintain the same quality when panning across left, centre and right. The Reveal X therefore uses the same drive units as Reveal to ensure consistency of sound quality, whilst doubling up on the mid-bass unit gives it greater power handling, ideal for the extra level the centre channel often needs to achieve.

Secondly the Reveal X is ideally suited to re-mix monitoring for DJs. Stereo re-mix monitoring requires the same standard of accuracy as any other music recording, and many DJs use Reveals for this reason. Now you can have the same quality with the Reveal X and benefit from increased sound pressure levels, which really convey the emotion of dance music.



REVEAL SUB 10

If you need additional bass extension and overall level, whilst maintaining the quality of Reveal stereo monitoring, the Reveal Sub 10 provides the solution. The Reveal Sub 10 is active using 75W RMS to drive a 250mm (10") long throw bass unit covering frequencies down to 31Hz (-3dB) and has a fixed crossover at 80Hz with line level outputs to the left and right monitors.

The Reveal Sub 10 can also be used for the LFE (low frequency effects) channel in smaller 5.1 surround systems and includes an all-pass switch so that an external 5.1 processor can set LFE channel frequencies.



SUB 15 5.1

The Sub 15 5.1 provides a complete solution for Reveal 5.1 surround monitoring. It contains 6 channels of amplification and user-switching of filtering on every channel to allow the internal crossovers to be used, or for frequencies to be determined by an external processor.

For sub frequencies a 100W RMS amplifier drives the 380mm (15") bass unit. A 100W RMS amplifier is also built-in for the centre channel, and 4 x 70W amplifiers for left, right and rear channels.



Reveal systems – a natural progression

Stereo monitoring

Reveal and Reveal Active provide the basic building blocks for a monitoring system. Indeed a pair of either will be all that is needed for many applications. If, however, you need to extend the low frequency that you're monitoring, the addition of the Reveal Sub 10 (one for mono sub and two for stereo sub) will give you a system capable of significantly lower frequencies (31Hz @ -3dB). Also, because the main monitors are now only handling frequencies above 80Hz a substantial gain in overall sound level is achievable.

For higher levels than Reveal and Reveal Active, as may be desirable for DJ re-mixing, the twin mid/bass units in the Reveal X are capable of producing much higher levels. Again, adding two Reveal Sub 10s (we would recommend the use of two in higher power systems) would give you a system capable of monitoring to 31Hz at very high sound pressure levels.

5.1 surround monitoring

Left, centre right channels:

Across left, centre, right it is essential to use monitors that have a very consistent tonal balance and frequency response – in an ideal world they should be identical monitors and amplifiers, so the first choice would be 3 x Reveal or 3 x Reveal Active. There may be other considerations, such as being cost-effective with amplifier channels, so the Reveal Active has been designed with exactly the same tonal balance as the Reveal. Therefore, when using Reveal for left and right with Reveal Active for centre the only difference is the amplification. There may also be practical problems with the centre channel monitor being vertical (portrait) and so our horizontal (landscape) centre monitor maintains a consistency with the left and right by using exactly the same drive units. In this case Reveal left and right and Reveal X centre is the best possible combination.



is an ideal choice. Being active it can be used with any combination of passive or active Reveals used for L,C,R,Rear. An important feature is the all-pass switch that bypasses the internal crossover and allows all frequency control of each channel to be set by your external 5.1 processor.

The second option is the Sub 15 5.1, which has been designed specifically for surround monitoring. Providing all of the amplification channels needed you simply add 5 x Reveal or 4 x Reveal and 1 x Reveal X for the centre channel. The result is a very cost effective system capable of outstanding performance.

Rear channels:

Because today's multi-channel mixes are full bandwidth on rear channels, it is important to monitor to the same standard on rear as on left, centre and right channels. For this reason we strongly recommend the rear channels are the same as the left and right monitors. In this case Reveal or Reveal Active for rear channels are the best choice for any of the L,C,R set-ups listed above.

Low frequency effects (LFE) channel:

For LFE there are two options. In smaller systems, where maximum sound levels are a lesser issue, the Reveal Sub 10

SPECIFICATIONS	REVEAL	REVEAL X
LOUDSPEAKER		
Frequency response (1)	65Hz - 20kHz	65Hz - 20kHz
Recommended amplifier power	30 to 100 W rms into 8	60 to 150 W rms into 8
Power handling	Average (2): 50 W rms Programme: 100 W rms	Average (2): 50 W rms Programme: 150 W rms
Nominal Impedance	6 Ω	8 Ω
Sensitivity (3)	90 dB SPL / 2.83V @ 1 m	90 dB SPL / 2.83V @ 1 m
Distortion	< 0.8%	< 0.8%
Crossover frequency	3kHz	2.7kHz
CABINET		
Drive units	Tannoy shielded 165mm (6.5") bass driver Tannoy shielded 25mm (1") soft dome tweeter	2 x Tannoy shielded 165mm (6.5") bass driver Tannoy shielded 25mm (1") soft dome tweeter
Low frequency design	Optimised bass-reflex load, in 12 litres	Optimised bass-reflex load, in 19 litres
Cabinet construction	40mm MDF front baffle 16 mm high density particle board.	40mm MDF front baffle 16 mm high density particle board. Internal steel plate for magnetic shielding
Finish	Red satin finish front Grey suedette vinyl sides and back	Red satin finish front Grey suedette vinyl sides and back
Dimensions (HxWxD)	340mm x 210mm x 260mm (13.4" x 8.3" x 10.25")	210mm x 528mm x 260mm (8.3" x 20.8" x 10.25")
Weight	7kg. (15.4 lbs)	13.3kg. (29.3 lbs)

SPECIFICATIONS	REVEAL ACTIVE
Frequency response (1)	62 Hz – 20 kHz
Maximum SPL (4)	114 dB
Distortion	< 0.8%
ELECTRONIC SYSTEM	
Input	32 kΩ balanced on combined XLR/jack
Sensitivity	0.775V RMS (0 dBu)
Crossover frequency	3kHz
Amplifier output power	LF channel (4Ω load): 50 W rms HF channel (4Ω load): 50 W rms
Output noise (HF channel, 20Hz - 20 kHz unweighted)	-80 dBV
User controls and indicators	Power ON/OFF switch, Power ON LED Fixed mains voltage
Power Supply	IEC inlet with detachable power cord Power consumption 10 to 160 VA
Cabinet	
Drive unit	Tannoy shielded 6.5" bass driver Tannoy shielded 1" soft dome tweeter
Low frequency design	Optimised bass-reflex loaded, in 12 litres
Cabinet construction	40mm MDF front baffle, 16 mm high density particle board.
Finish	Azure blue satin front Grey suedette vinyl sides and back
Dimensions (HxWxD)	340 mm x 210 mm x 260 mm (30.4" x 8.3" x 10.2")
Weight	8.5 kg (18.73 lbs)

(1) ±3dB, measured at 1m in an anechoic chamber

(2) Long term power handling capacity as defined in EIA standard RS426A

(3) Average over specified bandwidth for half-space environment

(4) Peak SPL at mix position for 1 pair driven

SPECIFICATIONS	REVEAL SUB 10	REVEAL SUB 15
Power rating	75W RMS	100W RMS (Sub & Centre) 70W RMS (Front & Rear)
Frequency response (low pass on) (all pass on)	-3dB @ 31Hz-80Hz -3dB @ 31Hz-500Hz	-6dB @ 25Hz-120Hz -6dB @ 25Hz-500Hz
Input level	Variable input gain control	Variable input gain control on each channel
Input connectors	XLR balanced, stereo	Sub/centre/FL/FR/RR/RL XLR balanced
Output connectors	XLR balanced, stereo	Binding post connectors FL/FR/centre/RR/RL
High pass output	Fixed @ 80Hz, 2nd. order, stereo	Centre/FL/FR/RR/RL On – fixed @ 65Hz, 2nd order Off – All pass (20Hz-20kHz)
Additional features	Phase invert switch on sub channel (0° & 180°) Auto mute, after approx 20 minutes, in absence of input signal Auto Power On Threshold 5mV @ 50Hz Thermal & over current protection Provision of spikes for floor coupling Power LED	Level control for each 5.1 channel (±6dB)
Mains voltage	100-120V, 200-240V nominal (selectable), 50-60Hz	230V nominal (220-240V) 50-60Hz
Mains fuse	T2A (125V), T1A (250V)	T1.25A (250V)
Driver type	250mm long throw bass unit	380mm long throw bass unit
Enclosure type	Closed box	Twin ducted port
Enclosure volume	27 litres	95 litres
Dimensions (HxWxD)	300 x 300 x 410mm (11.8" x 11.8" x 16.14")	475 x 520 x 505mm (18.7" x 20.5" x 19.9")
Weight	13kg (28.66 lbs)	34kg (74.95 lbs)

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