

Concept 4

Active Multi-Channel Loudspeaker System

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ACOUSTIC ENGINEERS

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Introducing the all-new lifestyle Concept 4 Multichannel Collection. Designed for both the home and the studio, C4 dramatically extends the flexibility of ATC's Mix & Match loudspeaker concept.

Overview

As Multichannel systems increase in popularity, it is easy to forget that the basic stereo pair of speakers at the front of the listening area remains an essential element. Existing libraries of recorded music, the commitment of recording companies to stereo in its current form, and the new high resolution digital two-channel format, indicate that stereo will continue to be the main source of recorded music for the foreseeable future. For these reasons ATC still regards the main stereo speaker pair as the foundation on which a high performance Multichannel system can be built.

The all-new T16 Lifestyle compact speaker, which provides the Front Left / Right and Rear Left / Right channels in the C4 (5.1) Collection, is directly descended from ATC's highly-successful Professional 20 and the award-winning SCM20 ASL monitors. Thus exceptional stereo and multichannel performance is assured.



In pursuit of the truth



The system

Borne out of the company's world-wide experience in the design, manufacture and installation of professional active Multichannel studio loudspeaker systems, the new C4 loudspeaker system extends the flexibility of ATC's Multichannel 'Mix & Match' configurations. This innovative and unique facility allows users, installers and architects to select from a wide range of active and passive loudspeakers to match their system requirements in terms of budget, number of channels, SPL, room size and decorative finish – precisely.

Aesthetically, the C4 Collection is easily integrated into any interior thanks to its compact dimensions and limitless colour choice. For example, will you choose (standard) high gloss Silver Grey, or could you be tempted by high gloss Mid Blue, Emerald Green, Turquoise Green, Mid Pink or Golden Yellow from our special colour palette? Still not inspired? Then why not ask us to custom colour-match your C4 system to any shade or hue you desire?

Since all ATC Multichannel components are capable of reproducing high digital bit rate recordings replayed at high SPLs, they have become the preferred choice of many professional studios, musicians and discerning listeners. The Sony DVD Mastering Suite in New York,



the Pioneer Mastering Suite in Barcelona, TODD AO, Naxos Records, Peter Gabriel and Lenny Kravitz are amongst the many high profile and highly-satisfied ATC users.

Now, with the launch of the new C4 Collection, ATC makes it even easier for you to add your name to this prestigious list.

The active T16 provides the system's key front and rear L/R channels and effortlessly meets the new higher bit rate standards required by DVD Audio and SACD – at an affordable price.

Integrated into each T16 loudspeaker are two channels of on-board MOSFET amplification totalling 250watts with an active cross-over giving optimum amplifier drive unit matching that cannot be equalled by separates. The T16 also features a new high-efficiency 150mm bass/mid range driver which is designed and hand-built in-house incorporating a ribbon wound coil and massive magnet .

Accommodated in a new 16 litre die cast aluminium 'Lifestyle' enclosure for absolute structural rigidity, T16 specification is impressive: greater than 108dB continuous SPL with 'bullet proof' limiter for drive unit protection; extended and exceptionally smooth frequency range to well above 20 kHz; 25mm tweeter to faithfully reproduce current and future digital formats; plus variable 6dB bass

level adjustment and individual speaker level control for perfect system matching. All this backed by a 'no quibble' 6-year warranty.

Two new colour-matching units have been designed to cater for both Centre Channel, and Sub Bass. The all-important screened 250watt active horizontal centre contains two mid-bass drivers and is constructed from extruded aluminium and laminated wood. This speaker has been designed for use with direct and projected TV as well as large screen front projection, easily fitting below the screen or equally at home on top or beneath a TV monitor.

The all-new active sub-bass has been designed for compactness, but retains the dynamic range and power capability to achieve realistic sound pressure levels for film soundtracks and music. Employing a 314mm sub bass driver with edge wound coil, the C4 sub, with its on-board 1000watt amplifier, will extend down to 20Hz and deliver 114dB.

As with all ATC products, your C4 Collection will be hand-built for you to ensure perfect system matching – both sonically and visually. Whichever combination of ATC loudspeaker or electronics you choose, be left in no doubt that you can expect nothing less than unequalled long-term reliability, quality and performance.

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Specifications

T16 Active Front and Rear Left/Right

Drivers:	HF Mid/LF	25mm (1") 150mm (6")
Amplitude Linearity $\pm 2\text{dB}$		70Hz – 20kHz
Cut-off Frequencies (-6dB free standing)		62Hz & 23kHz
Dispersion:	Horizontal Vertical	$\pm 80^\circ$ Coherent $\pm 10^\circ$ Coherent
Max continuous SPL @ 1 metre		108dB SPL
Crossover Frequency		2.8kHz
Input Connector		Male XLR
Input Sensitivity		0.5V Balanced
Sensitivity Trim		20dB
Input Impedance		>10k Ohms
Amplifier Output:	Bass High	200Watts RMS 50Watts RMS
Overload Protection		Active FET Momentary Gain Reduction
LF EQ		Variable +6dB @ 50Hz
Cabinet Dimensions (HxWxD)		448 x 270 x 330mm
Overall Weight		17.5kg
Stands/Brackets		Optional floor stands and wall brackets are available
Cabinet Finishes		High gloss silver (standard) The T16 can also be supplied in any colour to special order

	C4c-a Centre Channel	C4s-a Sub Bass
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Drivers:	HF LF	25mm (1") 2 x 125mm (5")	– 314mm (12")
Amplitude Linearity $\pm 2\text{dB}$		75Hz – 20kHz	18Hz – 250Hz (variable)
Cut-off Frequencies (-6dB free standing)		57Hz & 23kHz	14Hz & >2kHz
Dispersion:	Horizontal Vertical	$\pm 10^\circ$ Coherent $\pm 80^\circ$ Coherent	– –
Max continuous SPL @ 1 metre		106dB SPL	112dB SPL
Crossover Frequency		2k5Hz	–
Input Connector		Male XLR pin 2 hot	Male XLR pin 2 hot
Input Sensitivity		1V Balanced	1V Balanced
Input Impedance		>10k Ohms	>10k Ohms
Amplifier Output:	HF LF	50Watts RMS 250Watts RMS	– 650Watts RMS
Overload Protection		Active FET Momentary Gain Reduction	
Gain Control Range		–	12dB
Adjustable Filters		–	50/60/70/80Hz low pass 2 nd order
Theatre Equaliser		–	40 – 80Hz boost
Cabinet Dimensions (HxWxD)		190 x 550 x 380mm	582 x 500 x 500mm
Overall Weight		24.5kg	52kg
Stands/Brackets		Floor stands available by request	–
Cabinet Finishes		High gloss silver (standard) Centre and Sub Bass units can also be supplied in any colour to special order	



MULTICHANNEL



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ATC reserves the right to vary products and specifications without prior notice.

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