



TITLE: FOX KIDS TV STUDIO

IAC Bulletin STU/09.99

IAC EQUIPMENT SUPPLIED:

A complete Accu-Tone® TV studio complex

This TV studio complex was designed and built by IAC for cable, satellite and digital channel *Fox Kids* at its Manchester site. The main studio is used to record and transmit the channel's programme output but is also a permanent feature of the Granada Studios Tour, with members of the public able to view the station's presenters in action through a five metre wide quadruple-glazed acoustic window.

The location of the studio complex, in the middle of a theme park and just a stone's throw from Granada's famous *Coronation Street* set, created several design challenges for IAC. A major concern was that any structural or airborne noise and vibration from surrounding areas wouldn't disturb studio operations; in particular, a new roller coaster ride which is actually attached to the building which houses the studio!

A background noise level of just NR20 in the main studio was agreed to ensure that sound recordings would be of broadcast standard. IAC undertook a full acoustic survey of the area, to identify all significant sources of noise and vibration, before producing a studio design that would eliminate any possibility of noise disturbance. To maximise airborne acoustic isolation, the main studio was built using a double-walled structure of 100mm thick Noishield® modular steel acoustic panels. Structural isolation was achieved by mounting the whole of the inner room - which measures 6m x 5m x 3.5m high - on special anti-vibration springs. Further acoustic panels were used to create an adjacent office, green room and props store. Double, sliding, Noise-Lock® acoustic doors give access to the studio. In addition to the project's main structures, IAC also provided all interior fabric and paint wall finishes, power supply and lighting systems and extra single-leaf acoustic doors for ancillary areas.

