



## Bicester Village Retail Park: 2N Audio-over-IP

Bicester Village Retail Park features the latest Audio-over-IP distributed sound technology and a full design-to-delivery audio rack system from CIE AV Solutions.

Location: **Bicester, Oxfordshire**  
Client: **Interserve**  
Supplier: **Midland Communications**

### Client:

Located just an hour from central London, Bicester Village Retail Park is a luxury boutique shopping experience featuring over 130 world-famous fashion, accessory and household brands, as well as a range of international dining options.

### System Requirements:

When AV integrators Midland Communications were approached by Bicester Village to recommend an improved public address and background music system which could be distributed via the existing Ethernet cable infrastructure, Midland Communications worked in partnership with CIE's team of audio system experts to design and specify a solution using the latest audio-over-IP technology.



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## The Solution:

Following a detailed site survey of the retail park which revealed available network cable infrastructure and existing individual PA systems in some of the larger retail stores, CIE's AV system design team devised a solution which would integrate the existing infrastructure with a new audio-over-ip system using the 2N NetSpeaker product range.

Taking full advantage of CIE's free in-house system design service, the final solution delivered by installers Midland Communications was a hybrid analogue / audio-over-IP solution, controlled from an audio server rack and 2N's unique NetMic – an IP-connected zone paging microphone and audio system control device.

Combined with a series of eight 2N Net Audio Decoder endpoints, the completed PA system allows for voice and background music signals to be distributed and controlled over standard Cat5e cable throughout the retail complex to 8 individual zones.

The IP audio system also features Inter-M's latest 4 channel power amplifier for additional zone control within a purpose-built audio rack, also designed and built by CIE's in-house AV rack build team.

## What is the 2N NetSpeaker System?

2N NetSpeaker is an IP audio system that enables audio communication or other audio signal streams to be played from a specified PC, server or audio source over a standard LAN/WAN network.

These Audio-over-IP end points are connected to standard loudspeakers or amplifiers to create a virtual central broadcasting system. This allow for any audio signal to be played with the options to create separate zones with different communicaiton content.

## Product:

- 8 x 2N 914013E Net Audio Decoder, Audio over IP Endpoint
- 1 x 2N 914075E Net Audio Encoder, Analogue Audio to IP signal converter
- 1 x 914071E NetMic IP Zone Paging Microphone
- 1 x Inter-M DPA300Q 4 x 300W 100v Power Amplifier
- CIE AV Rack Design & Build Service

## Products used in this project



2N Net Audio Decoder -  
Audio over IP Endpoint



2N Net Audio Encoder -  
Analogue audio to IP  
signal converter



InterM DPA300Q 4x 300W  
100v Power Amplifier



2N NetMic IP Zone Paging  
Microphone



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