

SPOTLIGHT ON IPTV

What is IPTV?

- Internet Protocol TV (IPTV) is defined as multimedia services such as television, video, audio and graphics being delivered over IP networks. In its native form, this essentially refers to services such as BBC iPlayer & BT Vision.
- In the M & E world IPTV has taken on a different form and is more accurately referred to as building IPTV. IPTV is becoming increasingly popular as organisations want to take advantage of refurbishment or new-build projects to upgrade their analogue systems.

What is building IPTV?

- Building IPTV systems utilise a series of encoders and decoders to deliver IP packets of digital information to televisions or computers over a LAN.
- This digital information can include digital TV, Satellite, DVD's, digital signage and information boards.

Media Source
e.g. Digital TV

Encoder

LAN
(Cat 5e/6 cable)

Decoder

TV

What are the advantages of building IPTV?

- Any audio-visual source can be encoded and distributed over the LAN.
- IPTV is inherently interactive – people can watch what they want when they want.
- Future proof against analogue signals being made redundant
- Control software allows total control of viewing
- PC 's can be easily converted into TV's expanding the reach of an organisations TV and video assets.

Design Consideration

What do I want to Stream?

High Definition or Standard
Definition

Is Video on Demand or Electronic
Programme Guide Required

Are there any other requirements
for the infrastructure cabling

Design Comment

This question defines the number of encoders required. For example for a complete digital TV system a minimum of 3 encoders are required.

The standard of image quality required determines the type of digital compression used. For standard definition, MPEG-2 is acceptable whilst MPEG-4 is recommended for high definition.

An IPTV server will be required to store digital content for on Demand Viewing

It is advisable to install a dedicated infrastructure for the IPTV system to avoid compromising the establishments' IT bandwidth.

ACS are always happy to help with the design of IPTV systems .

If you need any information or advice please contact our Sales Engineer Matthew Jefferson on 0191 4178882 or sales@alarmcommsys.co.uk

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Communication Systems

- Intercoms & Telephone Systems
- Electronic Signage
- Radio Printing & 2 way radios
- Nurse Call
- Public Address
- Fire Alarm Voice Evacuation
- Background Music
- Doctor/ Reception/ Patient Call
- Refuge Intercoms
- Queuing Systems

TV/ Radio/ Satellite

- Home Entertainment
- NetworkingVoice / Data Systems
- IRS – TV/Radio/Satellite

Maintenance

- Fully comprehensive
- Labour only
- Yearly check
- For 1/ 3/ 5 years
- Maintenance agreements and repair facilities offered on systems not installed by ACS

Fire Alarm & Security Systems

- Fire Alarms
- Intruder
- Personal / Staff Attack
- CCTV
- Access Control
- Door Automation
- Automatic Gates/ Barriers

Specialist Solutions for: Academies, Colleges and Schools

- Announcements / Class Change Signals
- Projectors and Bulbs
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- Special Effects Lighting
- Interactive Whiteboards – SMART & Promethean
- Security & Safety
- Electronic Signage & Messaging TV
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- Specialist Equipment & Furniture
- Disposal of Redundant Electric/ Electronic Equipment
- Synchronised Time Clocks
- TV & Satellite Systems

DDA Compliance

- Induction Loops and Infra Red Systems for the Hearing Impaired installed in Reception desks, Multi Purpose Rooms, Function Rooms, Churches, Classrooms
- Refuge Area Communication Systems
- Soundfield Systems for Schools, Colleges
- Accessible Alarms for toilets, showers, changing rooms
- Automatic Door Operators

Corporate Solutions

- Training Room AV Equipment
- Lecture Theatre AV Equipment
- Boardroom AV Equipment
- Conference Room AV Equipment
- AMX Control Systems
- Electronic Signage & Messaging TV
- Synchronised Clocks