The ITV-AS180c Adaptive Bit Rate Transcoder is a highly flexible compression appliance tailored to adaptive streaming based Broadcast, Web, and Mobile video applications. The ITV-AS180c gives video service providers a proven, easy to deploy real time adaptive streaming solution.

**Business Benefits**

**Cost Effective**
With its modular and scalable architecture, the ITV-AS180c provides an adaptive bit rate transcoding solution with unmatched CAPEX / OPEX advantages.

**Future Proof**
With real time ‘any-to-any’ multistandard codec support, the transcoder is able to seamlessly adapt services from MPEG-2 and MPEG-4 AVC systems.

**Flexible Networking**
The ITV-AS180c supports adaptive rate streaming technologies including TS, RTMP and HTTP Live Streaming permitting reliable video delivery to virtually any device and over any network.

**Control & Monitoring**
The DashBoard Network Control & Monitoring software is a free application designed for remote control & monitoring of the open architecture, openGear® platform. For larger deployments where multiple units are deployed, the DashBoard application or SNMP may be used for firmware updates and monitoring.

**Application**
The ITV-AS180c Adaptive Bit Rate Transcoder is a powerful real time transcoding solution designed to meet rapidly evolving demands of adaptive rate streaming video delivery applications. The product meets the challenge by providing high quality video to a wide variety of viewing devices over a wide variety of networks and network conditions and meets the demanding requirements of Broadcast, Web, and Mobile video services delivery.

As sports, movies, and other programming is more commonly viewed on PCs, tablet computers, smart phones, and IP enabled set-top boxes, dynamic adaptive rate streaming technology enables a new paradigm in video service delivery. Employing cutting edge adaptive rate streaming protocols, the ITV-AS180c permits video services to be delivered to any device, anywhere, and over any IP network.

The scalable and cost effective modular design is capable of simultaneously transcoding and formatting video services into multiple segmented adaptive profiles ranging from full HD down to sub-SD resolutions. An elegant streaming protocol permits a video decoder to seamlessly and dynamically adapt to the profile best suited to it capabilities and current network conditions.

ImmediaTV’s Adaptive Bit Rate Transcoder is equipped with the latest advances in video compression technology. State of the art video processing combined with our unique encoding technology permits the best possible video quality at a given resolution and bit rate profile.

Up to three ITV-AS180c units can be installed in a 1RU rack mount tray. Using ImmediaTV’s unique transcoding architecture, multiple adaptive rate streaming profiles can be supported in a compact modular unit.

**Base Features**

**ITV-AS180c Base Unit (ITV-AS180c/BAS)**
The ITV-AS180c base module is able to transcode a single program received from IP or ASI. The program can be output using multiple resolution and rate profiles over IP interfaces using the adaptive rate streaming protocol of choice. A flexible licensing model allows for easy addition of feature options expanding the capabilities of each module.

- Single multi-standard (MPEG-2 or MPEG-4 AVC) HD/SD transcoder
- RTP/UDP, UDP, RTMP and HTTP Live Streaming (HLS) protocol support
- Four adaptive rate resolution/rate profiles
- MPEG-1 Layer II, AAC, and Dolby AC-3 input audio
- Management and control via openGear® Dashboard software or SNMP
- IP unicast/multicast input, ASI Inputs

**Licensable Options**

- Additional adaptive streaming profiles (4) license (ITV-AS180c/ASP4)
- Dolby Audio Conversion (ITV-AS180c/DLB)
# ITV-AS180c Adaptive Bit Rate Transcoder

![ITV-AS180c Adaptive Bit Rate Transcoder](image)

## Inputs and Outputs
- 2x 100/1000Base-T RJ-45 ports, auto-negotiate or fixed speed
- 2x ASI Inputs

## Network Transport Protocols
- UDP/IP (Unicast and Multicast)
- RTP/IP (Unicast and Multicast)
- RTMP (Flash)
- HTTP Live Streaming (HLS): populates an external web server through FTP or SFTP

## Video Transcoding
**Input**
- MPEG-4 AVC HP@L4.0, HP@L4.2 (HD)
- MPEG-4 AVC MP@L3.0 (SD)
- MPEG-2 HP@HL (HD)
- MPEG-2 MP@ML (SD)

**Output**
- MPEG-4 AVC HP@L4.0, HP@L4.2 (HD)
- MPEG-4 AVC MP@L3.0 (SD)
- CBR & VBR

1.5Mbps to 10 Mbps (profile dependent)

## Video Formats
**Input**
- 1080 x 1920p 60/50
- 1080 x 1920/1440 25 29.97/30
- 720 x 1280/1440 50/59.94
- 960 x 540 25/29.97
- 480 x 720/704/640/528 25
- 640x480, 480x270, 320x240, 320x180

**Output**
- 1080 x 1920p 60/50
- 1080 x 1920/1440 25 29.97/30
- 720 x 1280/1440 50/59.94
- 960 x 540 25/29.97
- 480 x 720/704/640/528 25
- 640x480/360, 480x270, 320x240, 320x180

## Physical
- Dimensions: (W x D x H) 146 x 356 x 44mm
- Desktop or 1RU rack mountable tray available—3 modules per tray
- Power: 16 Watts total power consumption
- AC input 100-240 VAC 47-63Hz
- Convection cooling

## Environmental
- Operating Temperature: 0°C to 50°C (32°F to 122°F)
- Operating Humidity: 5% to 95% (non-condensing)

## Compliance
- EMC: EN55022, EN55024, EN6100, FCC Part 15
- SAFETY: IEC 60950
- ROHS: 2011/65/EU
- WEEE: 2012/19/EU

Note: ITV-AS180c specifications are subject to change.