



## HD Technical Specifications

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**Satellite:** SES-1 at 101° West

**Transponder:** 10C

**Downlink Polarization:** Horizontal

**Downlink L-Band Frequency:** 1250 MHz

**VCT #:** 984

**Modulation:** DVB-S2, 8PSK

**Symbol Rate:** 30.000000 Msps

**FEC:** 5/6 Combined

**Feed Encryption:** DigiCipher II

**HD Encoding:** MPEG-4

**Virtual Channel:** 306

**Audio Encoding:**

Pair 1: AC-3: Dolby Digital 2-0 (Stereo)

Pair 2: AC-3: Left: DTMF Commercial Insertion  
Tones, Right: Mono Program

DTMF Cue Tones: break start: 615\* (8-second  
pre-roll), break end: 615#

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## Acceptable Receiver Models

**Motorola DSR-4410MD** – MPEG 4 output

- Multi-Service Decryptor to ASI & Gig-E output (up to 64 services)
- DVB-S2 8PSK, and DCII QPSK demodulation

**Motorola DSR-4440** – MPEG 4 output

- Single-Service MPEG-2/4 HD/SD Decoder to Analog Composite video out
- Also provides single decrypted output service via ASI & Gig-E output
- 2RF/ASI input; 2 stereo audio output, 1 video output & 1 OSD
- Contact Closure & DTMF cue tone output
- DVB-S2 8PSK, TurboCode 8PSK, and DCII QPSK demodulation

**Motorola DSR 4460** – MPEG 4 & SDI outputs

- Single-Service MPEG-2/4 HD/SD Decoder to Analog Composite video out
- Same feature set as DSR-4440, plus HD/SD-SDI Digital Video Output

**Motorola DSR-6050** – MPEG 2 output

- Single-Service MPEG-4 HD Transcode to MPEG-2 HD ASI & Gig-E out
- DVB-S2 8PSK and DCII QPSK demodulation

**Motorola DSR-6401** – MPEG 2 output (single channel)

- Single-decrypt transcoding with one transcoded MPEG 2 program stream
- ASI and Gig-E out
- Includes both HD and down converted SD MPEG 2 encoded services for one channel

**Motorola DSR-6402** – MPEG 2 out (dual channel)

- Dual-decrypt transcoding with one transcoded MPEG 2 program stream
- ASI and Gig-E out
- Includes both HD and down converted SD MPEG 2 encoded services for two channels

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