

## Agenda

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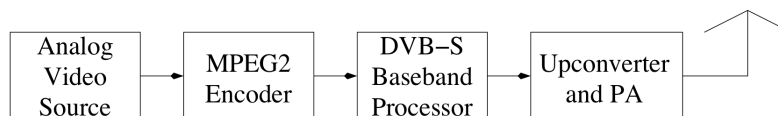
- ✓ *ATV Review*
  - ✓ *DTV Overview*
  - ✓ *Transport Basics*
  - ✓ *Television Stuff – A & V*
  - ✓ *Metadata – PSI & PSIP*
  - **Amateur DTV**
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## Amateur Digital Television Choices

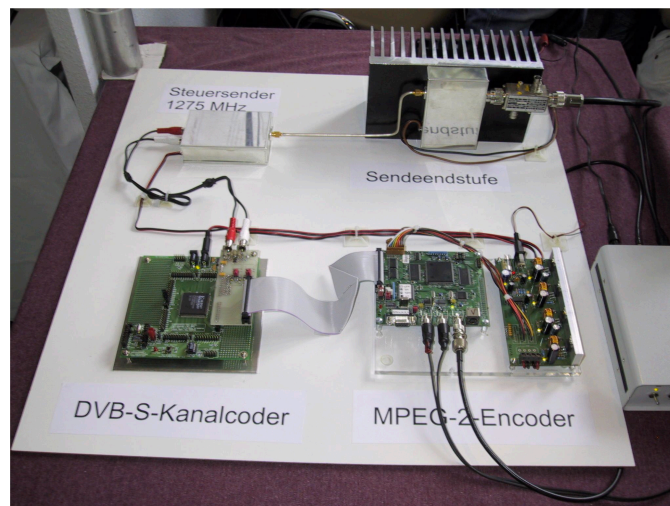
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- Source Coding
    - MPEG-2, MPEG-4 ??
  - Modulation System
    - What is channel bandwidth target?
    - How much non-linearity permitted in PA?
    - 8VSB, QPSK, OFDM ??
  - Transmission Band
    - 33cm (902-928MHz)
    - 23cm (1240-1300MHz)
    - 12.5cm (2390-2450MHz)
    - 9cm (3300-3500MHz), and so on
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## DVB-S A-DTV System Block Diagram



## A-DTV System



## References

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- *What exactly is 8-VSB anyway?*
    - David Sparano, Harris Systems
  - *Digital Amateur TeleVision (D-ATV)*
    - Thomas Sailer (HB9JNX/AE4WA), et al.
  - ISO/IEC 11172 (MPEG-1); aka ITU H.261
  - ISO/IEC 13818 (MPEG-2); aka ITU H.262
  - ATSC A/53 Digital Television Standard
  - ATSC A/65 Program and System Information Protocol
  - Wiki Commons
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