Astro Analogue Video (AAV)

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Issues with AVI files

- Repeated information
- Larger file size
- Measurement challenges, including binning
Measurements – Software Binning
Recording Time Binning or Averaging
Composing a Clear Timestamp
Preserving VTI–OSD Lines
ADVS to the rescue...
Astro Digital Video (ADV) File Structure

- **FITS**: IMAGE (BAND1), IMAGE (BAND2), IMAGE (BAND3), METADATA
- **SER**: FRAME1, FRAME2, FRAME3, FRAME4, TIMESTAMP1, TIMESTAMP2, TIMESTAMP3, TIMESTAMP4
- **ADV**: STREAM1 (IMAGES/BAND1), STREAM2 (STATUS DATA/BAND2), FRAME N, FRAME N, FRAME N

Demo

OccuRec in Action
Integration Detection in OccuRec

- Algorithm – Automatic Detection
- Calibration and Adjustments
- Algorithm – Manual Integration Rate
- Integration Rates of x1 and x2
Demos

Generating AAV files in Tangra

Working with AAV files in Tangra
Usage of ADV/AAV files

- ADVLib in C++ & C# for recording and reading files
- ADVLib in plain C for embedded recorders
Questions?

http://www.hristopavlov.net/OccuRec