

University of Iowa Satellite Uplink Service Specifications 2007

The University of Iowa has operated a fixed satellite uplink terminal for educational, sports and news service since 1986. Many satellite feeds have been done for all of the major national networks. Significant events have been Hawkeye football and basketball games, presidential visit news pools and live news interviews. Recently the terminal has been upgraded to include digital standard definition and high definition capability.

Digital Capability

- Tandberg E5788 encoders
- Supports 4:2:0 and 4:2:2 HD
- Supports 480p, 720p and 1080i and variant resolutions

Analog Capability

- NTSC video
- 3 channels discrete audio, 5.8mhz, 6.2mhz and 6.8mhz sub carriers

Input Capability

- SD-SDI digital
- HD-SDI digital (720p&1080i)
- NTSC video analog video with up to 4 channels analog audio
- 4 channels audio for digital embedding (3 channels for analog transmission)
- AES audio
- Dolby™ E genlock

Satellite Access Capability

- Most domestic C-Band satellites (Galaxy, Intelsat and Anik)
- Two transponder simultaneous access capability any polarity combination

RF Equipment

- Scientific Atlanta 10 meter 2 port antenna
- Miteq upconverters
- CPI 750 watt TWT high power amplifiers

Interconnection

- All interconnections to the uplink terminal by U of I owned fiber optic network
- Digital transport by Evertz 7700 series fiber optic equipment
- Analog transport by C-Cor 6000 series fiber optic equipment

Access Points

- Kinnick Stadium and Carver Hawkeye Arena via redundant fiber routes
- On campus 3 camera broadcast quality studio
- Many other on campus locations accessible

Redundancy

- Transmit chain dual thread from input to antenna.
- Redundant fiber optic cables are separate independent routes from Kinnick Stadium and Carver Hawkeye arena to uplink terminal
- Uplink terminal site power backed up with generator
- Encoders backed up with 24 hour replacement contract with Tandberg

Staffing

- Two **veteran** transmission engineers provided for games; one at uplink terminal and one at stadium/arena site
- Separate production crew assigned for studio and other production sites

Contact

- Bookings -----319-335-5898, backup 319-330-1725
- Uplink Terminal-----319-335-4468, backup 319-626-3032
- We can book satellite transponder time for you if needed