

# ASTRA Studio

## Technical Reference Sheet



## DOWNLOADS > ASTRA Studio TRF

Features subject to licensing.

### PLATFORM

<b>Bare Metal Deployment</b>	<ul style="list-style-type: none"><li>• 1RU Astra V server</li><li>• Customized, Aveco-managed Linux OS</li></ul>
<b>Virtualization support</b>	<ul style="list-style-type: none"><li>• Suitable for POC, Staging and test, Demo systems</li><li>• Limited to IP-controlled devices</li></ul>
<b>Expansion and redundancy</b>	<ul style="list-style-type: none"><li>• Mirrored Astra V servers (Main + Backup)</li><li>• Orbiter architecture (multiple Main + Backup pairs)</li></ul>
<b>Astra Media Factory integration</b>	<ul style="list-style-type: none"><li>• MCR&lt;&gt;PCR trigger exchange</li><li>• Rundown ingest</li><li>• Built-in MAM</li><li>• ASTRA News for simple clip/CG playout in OB Vans, co-existing with ASTRA Studio, resource and asset sharing</li></ul>

### CAPACITY

<b>Multi-studio support</b>	<ul style="list-style-type: none"><li>• Default support for 3x PCR control per server</li><li>• Additional PCRs capacity evaluated individually</li></ul>
<b>Device control</b>	<ul style="list-style-type: none"><li>• Unlimited IP devices</li><li>• 24x RS422 ports (with <a href="#">ASTRA Breakout Box</a>)</li><li>• 8x GPI In (with <a href="#">ASTRA GPI Extender</a>)</li><li>• 8x GPI Out (with <a href="#">ASTRA GPI Extender</a>)</li></ul>
<b>Control panels</b>	<ul style="list-style-type: none"><li>• Multiple LCD control panels per PCR supported</li><li>• Multiple JLCoper panels per PCR supported</li></ul>
<b>User GUI stations</b>	<ul style="list-style-type: none"><li>• Unlimited number of NUE clients per PCR</li></ul>
<b>API connections</b>	<ul style="list-style-type: none"><li>• Individually evaluated depending on polling frequency</li></ul>
<b>Concurrent users</b>	<ul style="list-style-type: none"><li>• Only limited by the number of NUE clients and control panels</li></ul>

### NRCS

<b>Connectivity</b>	<ul style="list-style-type: none"><li>• MOS Rundown interface</li><li>• MOS Object interface</li></ul>
<b>Integrations</b>	<ul style="list-style-type: none"><li>• Octopus</li><li>• ENPS</li><li>• iNews</li><li>• OpenMedia</li><li>• Other MOS compatible systems</li></ul>
<b>Astra -&gt; NRCS features</b>	<ul style="list-style-type: none"><li>• Object updates based on asset's status</li><li>• Low-res and thumbnail metadata insertion</li><li>• Advanced broadcast directive exchange</li><li>• Item status reporting to NRCS</li><li>• HTML5 plugin hosting (CG Manager, Story Designer, Gemini)</li></ul>
<b>NRCS -&gt; Astra features</b>	<ul style="list-style-type: none"><li>• Rundown creation</li><li>• Last minute onair/next story updates</li><li>• Placeholder creation</li></ul>

## OPERATOR CONTROLS

<b>Client stations</b>	<ul style="list-style-type: none"><li>• Shared client for multi-PCR operation</li><li>• Dedicated clients for each PCR</li><li>• Windows, Mac, Linux</li></ul>
<b>LCD Control panel</b>	<ul style="list-style-type: none"><li>• 36-button LCD control panels</li><li>• 72-button LCD control panels</li><li>• Dedicated to single PCR or switchable between PCRs</li><li>• Refer to <a href="#">LCD control panel specification</a> for details</li></ul>
<b>JL Cooper Audio board</b>	<ul style="list-style-type: none"><li>• 8-fader extension for audio mixers</li><li>• Dynamic fader assignment</li></ul>

## FEATURE HIGHLIGHTS

<b>MOS integration</b>	<ul style="list-style-type: none"><li>• Instant rundown updates</li><li>• Onair/Next story updates</li><li>• Story reordering, skipping (floating)</li><li>• Timing, story and item status reporting to the NRCS</li></ul>
<b>Control flexibility</b>	<ul style="list-style-type: none"><li>• Mouse &amp; keyboard in the GUI (touch compatible)</li><li>• GUI-independent LCD control panel (server-connected) with dynamically assigned buttons based on story context and fixed buttons for manual triggers by the operator</li><li>• Ability to disable automation control per device</li><li>• SHS feature to assign pool devices between PCRs</li></ul>
<b>Flawless execution</b>	<ul style="list-style-type: none"><li>• Capability to broadcast &lt;1 second stories</li><li>• Cue-ahead to minimize video server start-delay</li><li>• Recommended Next to run the whole show with just 1 button</li><li>• Floating Shots to break away certain elements from the rundown broadcast sequence</li><li>• Advance-start shots to get the stage ready for the next shot before it's too late</li><li>• Append the next rundown to transition seamlessly between shows without a break</li></ul>
<b>Automation Templates</b>	<ul style="list-style-type: none"><li>• Template able to build the whole story without any information from the NRCS</li><li>• Template determines the automation level</li><li>• Template Editor available to the user in the NUE GUI</li><li>• Smart item metadata transformation in real-time based on metadata provided by the NRCS</li></ul>
<b>Monitoring and failover</b>	<ul style="list-style-type: none"><li>• Full ASTRA system health monitoring in the user GUI</li><li>• Rundown item error detection and reporting</li><li>• Asset presence monitoring</li><li>• Automatic seamless switch to backup ASTRA V server or backup device (including signal re-routing)</li></ul>

## DEVICE INTEGRATIONS

See [Automation Compatibility List](#) for full overview

<b>Video servers</b>	<p>Loop support, ingest support, asset checks and status reporting, cue-ahead to minimize latency, mirrored playout control, content mirroring, transfer control. B2B, A/B roll support.</p> <ul style="list-style-type: none"><li>• <a href="#">Redwood White</a></li><li>• <a href="#">Redwood Green</a></li><li>• Harmonic</li><li>• EVS</li><li>• Avid</li><li>• Other vendor-specific APIs or VDCP (serial and IP)</li></ul>
----------------------	---

**Graphics**

- Multi-layer control, Metadata display and on-air edits
- [Redwood White](#) with HTML5 plugin support
  - Chyron
  - Avid
  - Ross
  - VizRT
  - Other vendor-specific APIs

**Audio mixers**

- Fader control (level, speed), preset recalls.
- Lawo
  - Yamaha
  - Stagetec
  - Calrec
  - Allen & Heath
  - Other vendor-specific APIs

**Video mixers**

- ME, AUX, DSK, Macro support
- Blackmagic ATEM
  - For-A
  - GV
  - Ross
  - Sony
  - Snell
  - Other vendor-specific APIs

**Robotic cameras**

- Cue/Start position recalls (scheduled or manually triggered)
- Panasonic
  - Shotoku
  - Sony
  - Vinten
  - Other PTZ/robotics

**MAM**

- File transfers and asset management.
- Aveco integrated
  - VPMS
  - Sony
  - GV Stratus
  - Other MAM vendors

**UMD**

- Studio/PCR clock displays
- Story timers
  - Clip timers

**Other**

- Light consoles
- Audio players
- Signal routers
- Transcoders