

# **ASTRA Studio**

## **Technical Reference Sheet**



PLATFORM	
Bare Metal Deployment	<ul><li>1RU Astra V server</li><li>Customized, Aveco-managed Linux OS</li></ul>
Virtualization support	<ul><li>Suitable for POC, Staging and test, Demo systems</li><li>Limited to IP-controlled devices</li></ul>
Expansion and redundancy	<ul><li>Mirrored Astra V servers (Main + Backup)</li><li>Orbiter architecture (multiple Main + Backup pairs)</li></ul>
Astra Media Factory integration	<ul> <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	
Multi-studio support	<ul><li>Default support for 3x PCR control per server</li><li>Additional PCRs capacity evaluated individually</li></ul>
Device control	<ul> <li>Unlimited IP devices</li> <li>24x RS422 ports (with ASTRA Breakout Box)</li> <li>8x GPI In (with ASTRA GPI Extender)</li> <li>8x GPI Out (with ASTRA GPI Extender)</li> </ul>
Control panels	<ul><li>Multiple LCD control panels per PCR supported</li><li>Multiple JLCooper panels per PCR supported</li></ul>
User GUI stations	Unlimited number of NUE clients per PCR
API connections	Individually evaluated depending on polling frequency
Concurrent users	Only limited by the number of NUE clients and control panels

NRCS	
Connectivity	<ul><li>MOS Rundown interface</li><li>MOS Object interface</li></ul>
Integrations	<ul> <li>Octopus</li> <li>ENPS</li> <li>iNews</li> <li>OpenMedia</li> <li>Other MOS compatible systems</li> </ul>
Astra -> NRCS features	<ul> <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>
NRCS -> Astra features	<ul> <li>Rundown creation</li> <li>Last minute onair/next story updates</li> <li>Placeholder creation</li> </ul>

OPERATOR CONTROL	LS
Client stations	<ul> <li>Shared client for multi-PCR operation</li> <li>Dedicated clients for each PCR</li> <li>Windows, Mac, Linux</li> </ul>
LCD Control panel	<ul> <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 LCD control panel specification for details</li> </ul>
JL Cooper Audio board	<ul><li>8-fader extension for audio mixers</li><li>Dynamic fader assignment</li></ul>

FEATURE HIGHLIGHT	rs
MOS integration	<ul> <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>
Control flexibility	<ul> <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>
Flawless execution	<ul> <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>
Automation Templates	<ul> <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>
Monitoring and failover	<ul> <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

#### **Video servers**

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.

- Redwood White
- Redwood Green
- Harmonic
- EVS
- Avid
- Other vendor-specific APIs or VDCP (serial and IP)

Graphics	Multi-layer control, Metadata display and on-air edits
	<ul> <li>Redwood White with HTML5 plugin support</li> </ul>
	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