Dolby

# Dolby Atmos Cinema Processor CP950A

	7.1 DOLBY SURROUND + DOLBY ATMOS	
▶€Dolby	L R C LFE ASS RAG LAS RAS LIS RAS L	

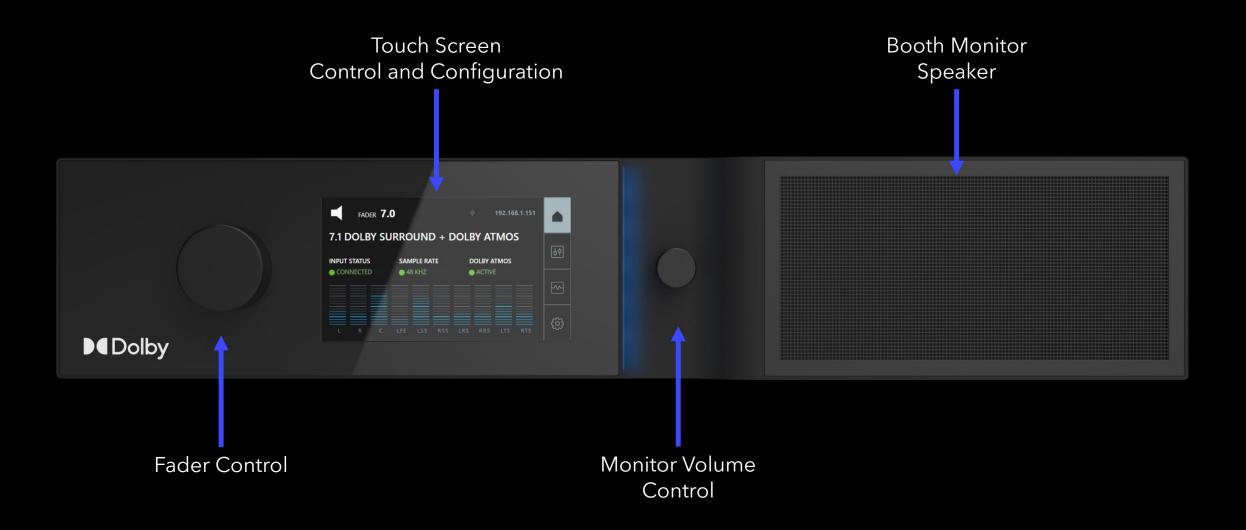
Fully featured, fully immersive Dolby Atmos

The Dolby Atmos Cinema Processor CP950A, the newest addition to Dolby's marketleading line of cinema processors, is designed to deliver an exceptionally immersive Dolby Atmos experience in a flexible, modular, cost-efficient solution.

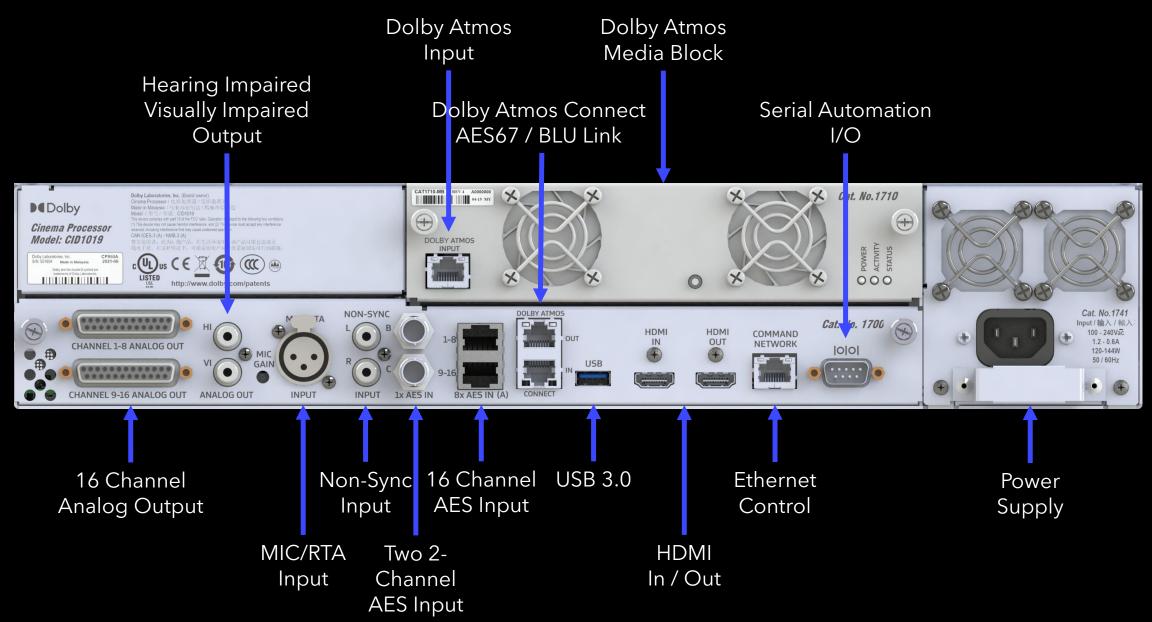
With an integrated Dolby Atmos media block card (CAT1710) and higher wattage power supply (CAT1741), CP950A will support up to 64 channels of digital output using either AES67 or BLU Link.

Complete Dolby Atmos capability (with full Dolby Atmos license) and rendering up to 64 speaker feeds

Dolby high-resolution multi-rate EQ optimizes playback for all content types Internal crossovers to enhance sound and reduce installation cost Built in booth monitor to simplify operations and QA Touchscreen front panel interface for easy control Web user interface for remote configuration and control Modular mechanical design allows for field upgradability and serviceability Dolby Atmos Designer compatibility for automated setup and precise system calibration



#### **CP950A REAR PANEL**



#### **PRODUCT POSITIONING AND AVAILABILITY**

CP950A is the replacement for the Dolby Atmos Cinema Processor CP850

- CP850 will be withdrawn from sale after March 31, 2022
- CP850 will continue to be supported until March 31, 2027

CP950A can be used in new Dolby Atmos installations or as a replacement for a CP850 in existing installations

 When replacing a CP850, the room will need to be re-tuned with the new CP950A and, depending on the room configuration, routing settings may need to be adjusted

CP950A and the CP950-UPG upgrade kit for CP950 are being made generally available in January 2022

#### **AVAILABLE CONFIGURATIONS**

### CP950A

- Standalone unit. Customers do not need to buy the Dolby Atmos media block card separately.
- CP950A consists of a standard CP950 with the Dolby Atmos media block and higher wattage power supply pre-installed.

## CP950-UPG

- Hardware upgrade kit adds Dolby Atmos capability to standard CP950
- Works with any previously purchased CP950. CP950-UPG is field installable and includes a CAT1710
   Dolby Atmos media block card and a higher wattage (CAT1741) power supply.

## ATMOS-FULL-AC

- CP950A and CP950-UPG use the same software entitlement model as CP850 and IMS3000.
- Customers need to order ATMOS-FULL-AC along with CP950A or CP950-UPG to enable full Dolby Atmos support.

Standard New Product Limited Hardware Warranty Term for CP950A

– Three (3) years

Standard New Product Software Maintenance Term for the CP950A

- Five (5) years

Extended Hardware Warranty and Extended Software Maintenance are available

The Dolby Cinema Processor CP950 is a 16CH audio processor that will play back Dolby Surround 7.1 and 5.1 formats

The Dolby Atmos Cinema Processor CP950A supports up to 64 speaker feeds and can play back Dolby Surround 7.1 and 5.1 formats as well as fully immersive Dolby Atmos content.

Both are built on the same modular platform but there are few key hardware and software differences

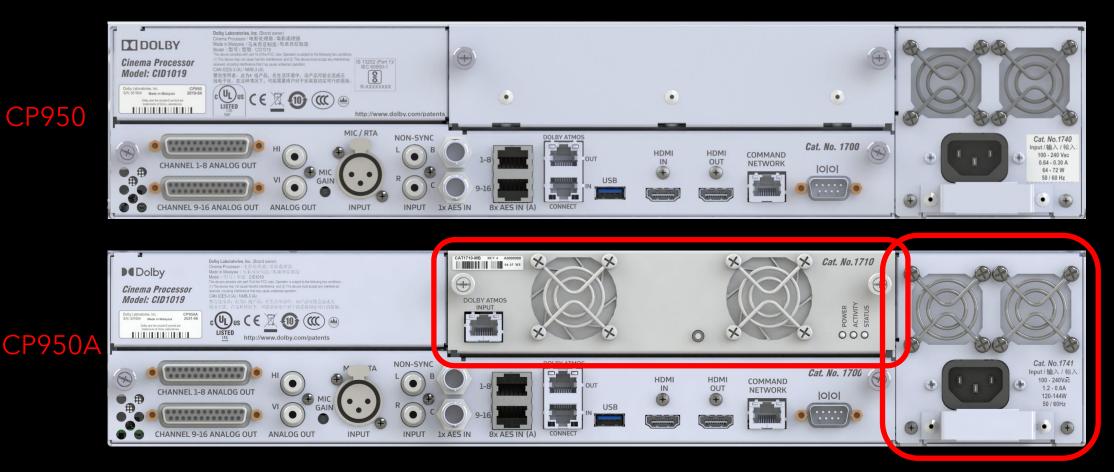
#### **CP950 - CP950A DIFFERENCES**

Status LEDs illuminate green when playing regular 5.1 or 7.1 content On CP950A, the status LEDs illuminate blue when playing Dolby Atmos content CP950A also adds top surrounds to the VU meters

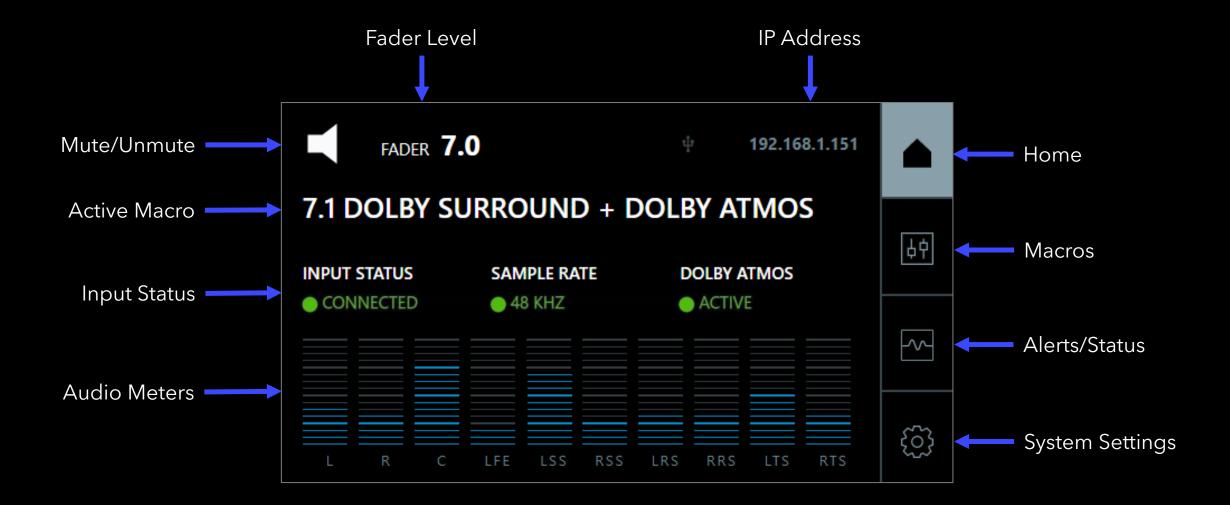


#### **CP950 - CP950A DIFFERENCES**

CP950A uses a higher wattage power supply, known as CAT1741 The Dolby Atmos media block, CAT1710, is installed in the expansion slot



#### TOUCHSCREEN FRONT PANEL USER INTERFACE

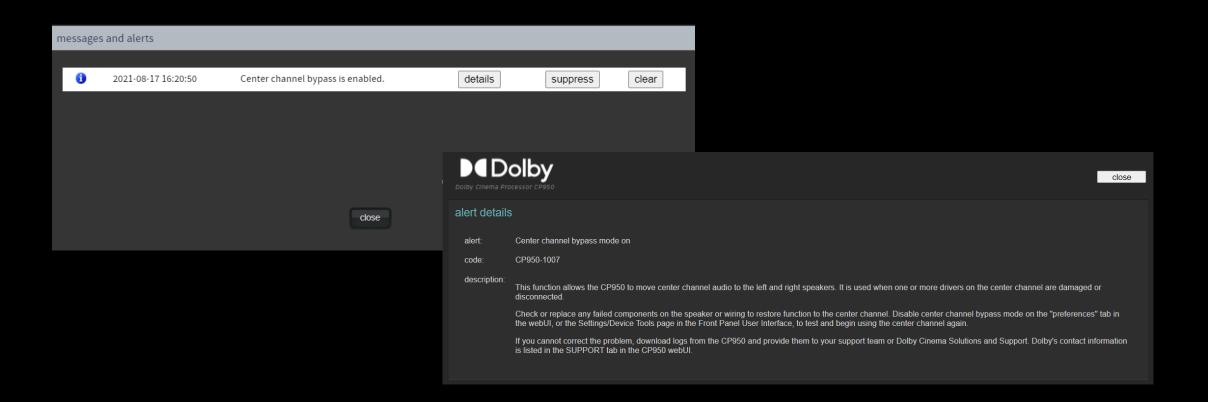


The CP950A has a comprehensive web browser user interface that allows you to control and configure everything from anywhere on the network

DCDOIL Dolby Atmos Cinema P	active macro 7.1 Dolby Surround - Dolby A monitor Mix (L, C, R) contigue user admin onwige	7.0 * () fader mute L * C UE Lin An Lin An Lin An						
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	marre 7:1 boury surround * boury konos macro order 2 input 16ch MediaBlock + Dolby Atmos	Dolby Atmos info Dolby Atmos content • n/a grove Dotby Atmos						
macro editor		frame rate n/a						
equalization	format 7.1 channel assignment Dolby Atmos							
auditorium	channet assignment Dolby Atmos eq preset AutoEQ		D€Dolby	active	macro 7.1 Dolby Surround + Dolby A ~	7.0 🗄 🕚	<u> </u>	
			Dolby Atmos Cinema Process	or CP950A M	user admin change			
				<b>Q F</b>	user aumm		L R C LFE Las Ras Lrs Rrs Lts Rts	
preferences			status		7.1 Dolby Surround + Dolby Atmos		save	
logs								
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maintenance			equalization			analog output selection  overr		/
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			logs			AES 5 Left surround V AES AES 7 HI V AES	6 Right surround V	
			user access				10 not used V	
			network			AES 11 Left rear surround V AES		
		enablement	maintenance	sample rates supported in this input			14 Dolby Atmos sync 🔍	
	1		reboot			AES 15 not used V AES	16 not used 🗸	
					AutoEQ 🗸			
			downloads					/
			support					
								/

#### WEB UI ALERTS

CP950A builds on the detailed alerts pages that were introduced with CP950 to provide more in-depth troubleshooting information for technicians



CP950A is compatible with Dolby's AutoEQ and the advanced room configuration functions in Dolby Atmos Designer (DAD)

- The latest version of the DAD installer is included in the WebUI for easy access



#### FAILOVER CONFIGURATIONS

## CP950A introduces a new concept of failover room configurations

 In the event of a CAT1710 media block failure, the system can automatically revert its configuration to a specific 16CH failover routing that is defined in Dolby Atmos Designer (DAD) during the setup.

<u>LFE</u> 1		эреакет атау аззіднітень эреакет аз	ssignments <b>routing</b> bass managemen	
	Rc 1 R D2	target device Note: CP950A with CAT1710 media block supports up to 64 physical output	ts. If the CAT1710 is removed or not	
Lw 1 Lts 1 Rts 1	Rw 1	the first 16 physical outputs. With automatic routing, a failover configuratior physical outputs 1-16. With manual routing, it is possible to create routing t		
Lw 2 Lts 2 Rts 2	Rw 2	automatic routing analog outputs to use auto assign from output		0 v 1 - digital v
Lss 1 Lts 3 Rts 3	Rss 1	ap	ply automatic routing	
D5 Lss 2 Lts 4 Rts 4 Sub 1				incremental routing 🗆 9 - digital
D6 Lss 3 Lts 5 Rts 5	Rss 3010	physical output		unassigned •
D7 Lss 4 Lts 6 Rts 6	Rss <b>4</b> 11		dear all routings	
D8 Lss 5 Lts 7 Rts 7	' Rss 5 <mark>)12</mark>			
013 014 016 Lrs 1 Lrs 2 Lrs 3 Rrs 3 F	015 Rrs 2 Rrs 1			

IMS3000 requires Software Bundle 3.4.11 and Accumulated Hotfix 1.0.1 IMS2000 requires SM 6.1.136 or later and software 2.8.30 with Accumulated Hotfix 1.0.5 IMB / ShowVault requires SM 5.1.117 or later and software 2.8.30 with Accumulated Hotfix 1.0.5

DCP-2000 or DCP-2K4 do not include a CP950A selection in the Device Manager

- The CP850 selection can be used instead

DSS200 and DSS220

- Automation commands for CP950 were added in software v4.9.4.5
- Support for CP950A was added in v4.9.6.4. You must be running v4.9.6.4 or later for Dolby Atmos playback

Third-party server validation and support includes Barco, Christie, GDC, Qube and Sony

#### **MODULAR DESIGN**

## CP950 and CP950A were designed with upgradability and ease of service in mind

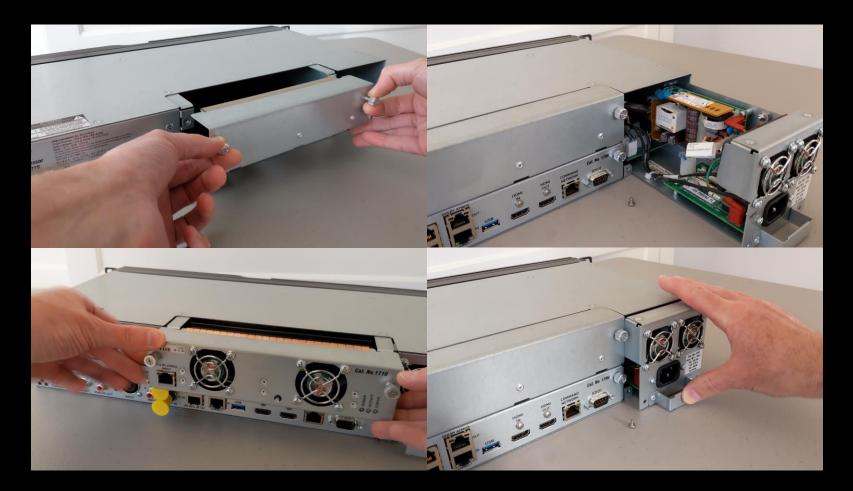
- The system can be broken down into several main components



#### UPGRADING CP950 TO CP950A

# All CP950s sold can be upgraded to CP950A

- CP950-UPG includes CAT1710 media block card and CAT1741 power supply



#### **CP FEATURE COMPARISON**

FEATURE	CP750	CP850	IMS3000 w/audio	CP950	CP950A
LCD touchscreen for configuration and control				<ul> <li></li> </ul>	~
Web interface for remote configuration and control		<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>	<ul> <li></li> </ul>
Built-in monitor speaker				×	>
Internal Crossovers		<ul> <li>Image: A second s</li></ul>	×	×	>
High resolution multi-rate EQ		<ul> <li>Image: A second s</li></ul>	×	<b>&gt;</b>	>
Automated calibration (auto EQ)		<ul> <li>Image: A second s</li></ul>	×	×	>
16CH AES input accepting main audio from cinema server	(8CH)	<	<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>	<b>~</b>
HDMI audio input and video passthrough		<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>	<ul> <li>Image: A second s</li></ul>
16CH analog output		<ul> <li>Image: A second s</li></ul>		<b>~</b>	<ul> <li></li> </ul>
AES67 output		<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li></li> </ul>	<ul> <li></li> </ul>
BLU Link output with loopback		<ul> <li>Image: A second s</li></ul>		<ul> <li></li> </ul>	<ul> <li></li> </ul>
8CH analog input	<ul> <li>Image: A set of the set of the</li></ul>				
Dolby Digital, Dolby Digital Plus, Dolby TrueHD		<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>	<ul> <li>Image: A second s</li></ul>
Consumer Dolby Atmos playback via HDMI		<ul> <li>Image: A second s</li></ul>	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li></li> </ul>	<ul> <li></li> </ul>
Modular mechanical design that allows for field upgradability and repair				<ul> <li></li> </ul>	<ul> <li></li> </ul>
Dolby Atmos media block card		<ul> <li></li> </ul>		(OPTIONAL)	<ul> <li></li> </ul>
Dolby Atmos input accepting Dolby Atmos bitstream from cinema server		<ul> <li></li> </ul>		(OPTIONAL)	<ul> <li></li> </ul>
Support for up to 64 speaker feeds		<ul> <li></li> </ul>		(OPTIONAL)	<ul> <li></li> </ul>
TOSLINK optical input	<ul> <li>✓</li> </ul>	<ul> <li></li> </ul>			
GPIO	<ul> <li></li> </ul>	<ul> <li></li> </ul>	<ul> <li></li> </ul>		
Optional Remote Fader support	<ul> <li>Image: A second s</li></ul>	<ul> <li></li> </ul>	<ul> <li></li> </ul>		

