

Highlights

- Leverage a specialized panel with low temperature operation (color temperature suited for 2,800K to 6,500K) tailored for broadcasting studio usage.
- Maintain uniform brightness and color accuracy across video wall displays with Samsung Color Expert Technology and factory calibration, and perform easy self-calibration for even more fine tuning, as needed.
- Project stunning images from any perspective through a wide viewing angle.
- Depend on 24x7 reliability for mission-critical broadcasting usage.
- Install and operate easily and cost-effectively with an attractively slim, space-saving design featuring an ultra-thin 3.5 mm bezel.





GET PRECISE AND CONSISTENT COLOR AND BRIGHTNESS FOR ANY BROADCASTING NEED

Attract audiences with uniquely compelling and engaging content

Today's networks and local broadcasting studios serve more technically savvy audiences, and strive to differentiate their programming in an ever-growing field of competition. Thus, contemporary broadcasters face increasing pressure to deliver high-quality, high-tech HDTV productions. These studios need integrated systems that offer the flexibility to innovate in real-time, while on the air, and allow them to transmit a variety of content that will ultimately attract new viewers.

The color performance needed for on-air perfection requires accurate color calibration, along with uniform brightness and color between screens. The color must display accurately within a color temperature range from 2800K to 6500K for low temperature usage that is compatible with the special lighting and cameras in a broadcasting studio. On-air displays also require a uniform viewing angle from any camera position without a change in brightness and an avoidance of color shifts. In addition, broadcasting studios need seamless, compelling large video wall panels of various sizes that consume minimal resources. The displays must be highly reliable and easy to use.

Improve content and message clarity with striking similarity to the original color signal

Samsung UDE-S Series Video Wall Displays deliver on-air perfection with high similarity to the original color signal for improved content and message clarity. Compatible with color temperatures from 2800K to 6500K, the displays maintain color depth, contrast and high brightness at 3200K color temperature without glare, even in the high-ambient light of a broadcast set. Uniformity provides consistent color across the video wall without any variations in color, brightness or luminescence, even from various angles. Advanced panel scanning technology reduces the image distortion caused by the time delays and unsynchronized images of conventional LCD panel scanning mechanisms, which enables visually appealing on-air programming.





Present excellent uniform brightness and color accuracy across video wall displays

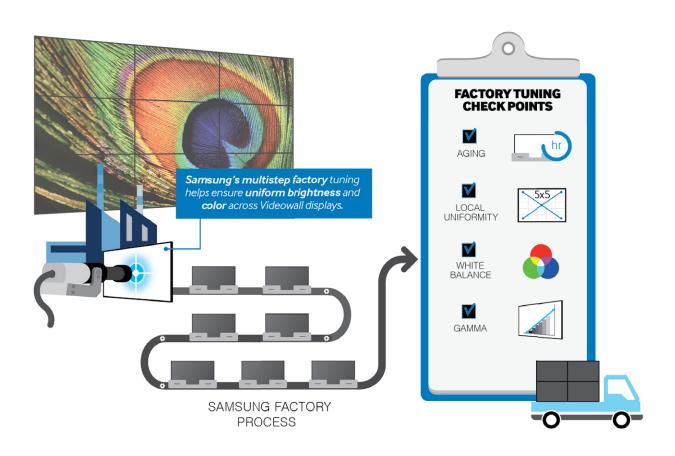
Factory calibration and Samsung Color Expert Technology provide uniform brightness and color accuracy across broadcasting video wall displays. The calibration and technology are specifically designed to maintain this uniformity and precision with low temperature usage.

Samsung's refined, multi-step factory calibration process manually tunes each display for uniform brightness and color to the highest-performing consistent factory standard to ensure uniformity of each display across the video wall.

Before uniformity, white balance and gamma correction, each monitor undergoes a three-step Aging process to prepare an environment that is similar to the actual usage environment.

Because display panels and backlight units have minute performance differences, each display inevitably experiences local uniformity deviations. Measuring the local brightness, and then adjusting local uniformity at more than 90% accuracy provides consistent luminance across the displays. It also makes Samsung color management technology superior to competitors' technology.

Accurate and high quality white color is created by fine tuning the RGB color balance. Gamma and grayscale calibration tunes the displays to show natural shading and gradation without color distortion, and subtle differences of white-to-black gradation. Before calibration, an uncorrected gamma curve results in unsaturated and distorted color. After calibration, the color is saturated and the grayscale is smooth.



PROVIDE EXELLENT MULTI-ANGLE VIEWING WITH RELIABILITY, COST-EFFECTIVENESS AND STYLE

Home screen, users can adjust color temperature and brightness perfectly for various studio environments. For perfect scene matching, users can fine-tune the display's appearance beyond the factory calibration with detail and uniformity management. Samsung Color Expert Software is provided for customers at no charge, and enables the user to simply and intuitively adjust local uniformity, white balance and Gamma calibration to further enhance the video wall displays' appearance.

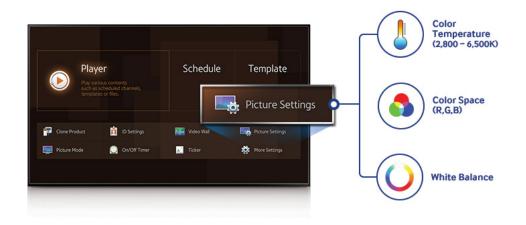
For Local Uniformity, Samsung Color Expert Software enables users to adjust the white uniformity of selected displays by choosing a 5×3 , 5×5 or 7×7 matrix configuration.*

With Adjustable White Balance, users can adjust the displays' white balance through three options.

- Auto Calibration calibrates displays automatically according to user-set target values.
- •Manual Calibration can then be performed to fine-tune the RGB gain and offset, digital gain, contrast and BLU brightness values.
- •Duplicate Calibration can be used additionally to "copy and paste" the calibrated result to other displays.

Gamma Calibration can occur in steps of 32, 64 and 128. Higher steps require longer correction time but provide a more accurate result. Users can accurately measure the grayscale by supporting the standard of Digital Image Communication in Medicine (DICOM), which is designed for medical digital imaging and communications standards.

*A higher matrix requires longer correction time, but produces a more accurate result.



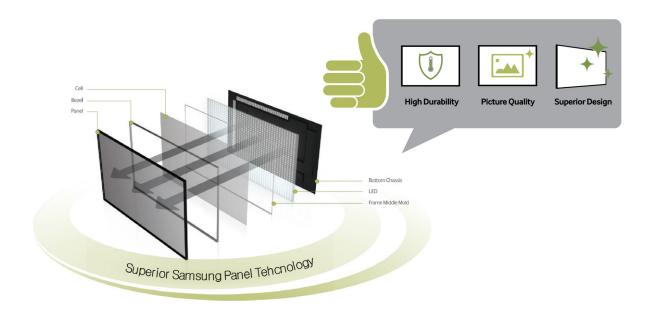
Deliver a clear image under studio lights with non-glare panels

Non-glare panels present vivid, highly visible images even under ambient light, which is crucial in a well-lit broadcasting studio. By smoothly spreading any direct light, non-glare panels provide broadcasters the flexibility to light studios as required without having to worry about distracting glare and deliver a flawless viewer experience.



Rely on 24/7 performance for mission-critical programming

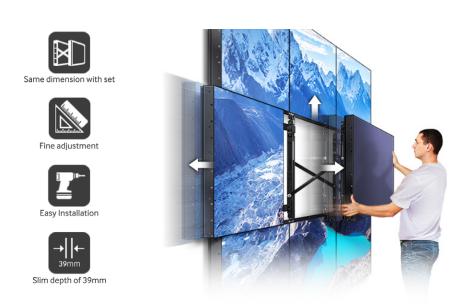
Dependable UDE-S Series video wall displays are designed for continuous 24/7 live television broadcast environments in which downtime is not an option. Whether in a 24-hour news channel studio or for various special live broadcast requirements UDE-S Series ensure the delivery of ceaseless programming with reliable operation.



Install and maintain easily while controlling costs

The displays' installation is simplified with special wall mounts that make setup easier, delivering a perfect fit without unnecessary measuring. Users have the freedom to create single landscape displays, multi-panel portrait walls or massive 10 x 10 video walls. A special wall mount kit for UDE-S Series video wall displays with no consumable replacement parts (such as lamps) reduces installation and maintenance expenses for a lower Total Cost of Ownership (TCO). Samsung special wall mounts feature an uncomplicated, slim design and, compared to conventional wall mounts, require fewer installation steps with a simple attach-and-connect setup. An exact match between the wall mount size and video wall display sizes eliminates the need for additional measurement and also enables a faster, more convenient installation process. Plus, because Samsung special wall mounts are significantly slimmer than conventional wall mounts, they provide a sleeker, more attractive display appearance to enhance any broadcasting set. UDE-S Series video wall displays' embedded System-on-Chip (SoC) streamlines

installation by eliminating the need for an additional media player.



Experience near-seamless viewing with slim-depth displays and incomparable 3.5 mm bezels

UDE-S Series video wall displays feature a sleek design with a slim depth and 3.5 mm bezels that are the narrowest in the video wall industry for an elegant and near-seamless viewing experience. The chic design enables broadcasting studios to create sophisticated video walls with creative designs to enhance programming.

SAMSUNG UDE-S SERIES VIDEO WALL DISPLAY



	Model	I	UDE-S
	Diagonal Size		55"
Panel	Туре		D-LED DID
	Resolution		1920*1080
	Pixel Pitch(mm)		0.63mm(H) * 0.63mm(V)
	Active Display Area(mm)		1209.6 * 680.4mm
	Brightness		700cd/m2
	Contrast Ratio		4000:1
	Viewing Angle(H/V)		178/178
	Response Time(G-to-G)		8ms
	Display Colors		8 bit - 16.7M
	Dynamic C/R		10,000:1
	H-Scanning Frequency		30kHz~81kHz
Display	V-Scanning Frequency		48Hz~ 75Hz
	Maximum Pixel Frequency		148.5MHz
Sound	Speaker Type		N/A
		RGB	Analog D-SUB, DVI-D, Display Port 1.2
	INPUT	VIDEO	HDMI1,HDMI2, Component(CVBS Common)
		AUDIO	Stereo mini Jack
		USB	USB 2.0 x 1
Connectivity	OUTPUT	RGB	DP1.2(Loop-out)
		VIDEO	N/A
		AUDIO	Stereo mini Jack
		Power Out	N/A
	EXTERNAL CONTROL		RS232C(in/out), RJ45
	EXTERNAL SENSOR		Detachable type(IR, Ambient)
	Туре		Internal
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz
Power	Power Consumption	Max[W/h]	297
		Typical[W/h]	217
		BTU(Max)	1,013
		Sleep Mode	less than 0.5W
		Off Mode	less than 0.5W

Mechanical	Dimension	Set	1213.5*684.3*96.6
	(mm)	Package	1450 X 903 X 385
	-	Set	23.3kg
	Weight (kg)	Package	36.9kg
	VESA Mount		600 * 400 (mm)
Spec	Protection Glass	***************************************	N/A
	Stand Type		N/A
		ion Type	Embbeded, SBB-C/DA/DI (Slide In)
	Media Player Option Type		
	Bezel Width (mm)		2.3mm(U/L), 1.2mm(R/B)
	Special		ACM Support(Advanced Color Management), Magic Clone(to USB), Auto Source Switching & Recovery, Haze 44%, Temperature Sensor, RS232C/RJ45 MDC,Plug and Play (DDC2B), PIP/PBP, Video Wall(T5x15(OSD)), Video Wall Daisy Chain(10x10), Pivot Display, Image Rotation, Button Lock, DP 1.2 Digital Daisy Chain(Supporting MST 2x2 UHD Resolution), Smart Scheduling, Smart F/W update, Clock Battery(80hrs Clock Keeping) Built In MagicInfo(MagicInfo Player S3), Panel for Broadcasting (2,800K~6,500K)
	Internal Player (Embedded H/W)	Processor	Cortex-A9 1GHz Quad Core CPU
		"On-Chip Cache Memory"	L1 (I/D): 32KB / 32KB L2 (Unified): 1MB
		Clock Speed	1GHz CPU Quad
Feature		"Main Memory Interface"	1.5GB Dual 48bit DDR3-933 (1866MHz)
		Graphics	2D & 3D Graphics Engine - Up to 1920x1080, 32bpp - Supports OpenGL ES
		Storage (FDM)	8GB (2.65GB Occupied by O/S, 5.35GB Available)
		Multimedia	Video Decoder - MPEG-1/2, H.264/AVC (Dual) - VC-1, JPEG, PNG, VP8 Audio JSP (Decoder) - AC3 (DD), MPEG, DTS and etc.
		IO Ports	USB 2.0
		Operating System	Samsung Proprietary OS(VDLinux)
Certification	Safety		UL (USA): UL 60950-1 CSA (Canada): CSA C2.2 No. 60950-1 TUV (Germany): EN60950-1 NEMKO (Norway): EN60950-1 KC (Korea): K60950-1 CCC (China): GB 4943-2001 PSB (Singapore): IEC60950-1 GOST (Russia): IEC60950-1, EN55022 SIQ (Slovenia): IEC60950-1, EN55022 PCBC (Poland): IEC60950-1, EN55022 NOM (Mexico): NOM-019-5CFI-1993 IRAM (Argentina): IEC60950-1 SASO (Saudi Arabia): IEC60950-1
	EMC		FCC (USA) FCC Part 15, Subpart B class A CE (Europe) EN55022, EN55024 VCCI (Japan) V-3 (CISPR22) KCC (Korea) ; KN22, KN24 BSMI (Taiwan) : CNS13438 (CISPR22) C-Tick (Australia) : AS/NZS3548 (CISPR22) CCC(China) : 68 9254-2008, GB 17625.1-2003
	Environment		ENERGY STAR 6.0 (USA)
	Key		Quick Setup Guide, Warranty Card, DP cable, Power Cord, Remote Controller, Batteries,
Accessories		Stand	N/A
		Mount	
		Specialty	MID-UD55DS(TBD)
	CPU		
	N/B S/B		
Media Player	GPU FDM/HDD/SSD		
	Memory	•	SBB (Optional, SIM Type)
	Ethernet		
		USB	
	Connectivity	Output Others	

NOTE

