43" 50"

65" 75"

55"



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Elevate the Patient Experience with Smart Displays



NT690U Series Healthcare TVs

Greater control for hospital management and your patients.

Our increasingly connected world has put more power in the hands of consumers. For healthcare organizations, that means it's more important than ever to deliver a superior patient experience. Outfitting each patient room with a modern, web-enabled TV offers obvious advantages. Patients can enjoy positive distractions, from educational content to therapeutic programming to conventional entertainment. Enhance the patient's experience with Samsung's NT690U Series - all in beautiful, captivating high-definition.

Key Features



UL62368 Listed for Hospital Use

Samsung Healthcare Series televisions are specifically engineered to meet the stringent requirements for use in hospital environments. Manufactured in accordance with UL's published and nationally recognized Standards for Safety, Samsung Healthcare Series TVs provide worry-free patient comfort.



Universal Pillow Speaker Interface

The display comes with an easy-to-use HTV emulator pillow speaker adapter designed to be used with multiple styles of pillow speakers. That means no set-top/set-back box is required, while eliminating the hassle of lost remotes and changing batteries.



The Ultimate Viewing Experience

Deliver the ultimate viewing experience to your patients with 3840 x 2160 UHD resolution and HDR10+ offering four times the pixels of FHD, and richer more lifelike color. The NT690U Series displays showcase every movie, TV show and educational content in stunning, lifelike detail.



Improved H.Browser for more streamlined operations

Enabled by Tizen, Samsung's H.Browser allows greater flexibility for content development. System integrators have the opportunity to create even smarter solutions.

NT690U Healthcare TV Series Key Features

Hospital TV Emulator

Control Samsung Hospitality TVs with a Pillow Speaker

- The NT690U Healthcare Smart TV Series comes with the HTV Emulator and a Pillow Speaker Adaptor Box
- o Supports SSCP TV protocol, with direct wired connection
- Supports analog audio from the TV, either fixed or variable audio outputs
- Compatible with all major pillow speakers*
- o Works with Curbell, Anacom-Medtek, Crest and others
- Supports Samsung, legacy Zenith, and Pro:Centric** pillow speaker protocols
- Supports healthcare system integrator's pillow speakers**
- Select set top boxes can also be controlled by pillow speakers
- Does not require troublesome IR Blasters for TV or Set Top Box
- No external power supply necessary, powered from the TVs USB port
- Only 2.2" x 2.2" x 0.7" in size, easily mounts to the back of the TV



UL Listed for Hospital Use

UL 62368 Certified requires display to be placed in a patient room that is 1.5 meters (4.9 feet) away from the patient bed.



* Pillow speakers must be able to support digital signals, and have a minimum # of buttons to be useful

Designed with Patients in Mind





UL-62368 listed for hospital use

Our TVs are specifically engineered to meet the nationally recognized Standards for Safety requirements for use in hospital environments.



Pillow speaker compatibility

The display comes with an easy-to-use HTV emulator pillow speaker adapter designed to be used with multiple styles of pillow speakers. That means no set-top/set-back box is required, while eliminating the hassle of lost remotes and changing batteries.

The Value of Samsung SMART TVs





Increased patient satisfaction

Healthcare TVs come with content decryptions to unlock premium HDTV content and are compatible with many interactive patient education systems, providing patients the viewing experience they enjoy at home.



Streamlined care

In conjunction with the facility's patient engagement system, caregivers can educate patients faster and effectively with educational videos and interactive content.



Increased HCAHPS scores

Improving the in-room patient experience leads to higher HCAHPS scores and greater hospital reimbursement.

^{**} Some keys may not be supported with standard product, but can be added if necessary. Some TV models might need an external power supply.

NT690U Healthcare TV Series Glossary

Connections

Anynet + (HDMI - CEC)

This Samsung protocol allows the user to control other HDMI devices connected to the TV display, such as DVD players, PC computers and Soundbars.

ConnectShare[™] (USB 2.0)

Connect a thumb drive or digital camera quickly and easily. User-friendly interface allows access to videos, a music playlist and pictures via the remote.

Healthcare TV (RJ-12/IR Pass Through)

Allows you to connect an interactive STB/SBB (Set Top Box/Set Back Box).

Healthcare TV RJ45

Connection to hospital LAN using custom H-browser or Samsung LYNK REACH.

Interactive Care Providers









Samsung Smart View

Enjoy your favorite digital content from any of your DLNA-connected Samsung Devices. Samsung Smart View lets you wirelessly access and share content between your Samsung devices regardless of where you are. And there's no need for any cables or connected devices. It's also equipped with cloud technology, so you can upload your favorite content to a central web storage account and access it wherever you are.

Wi-Fi

With built-in Wi-Fi, no additional equipment is needed to connect with an existing wireless router in your healthcare network and start accessing Samsung Apps or other Smart TV features.

Management and Patient Convenience

Anti-Theft Battery Cover

Battery door is secured, ensuring batteries remain in the remote controller.

Channel Remapping

Allows the healthcare facility to change channel and TV source to a different channel.

Clock On Timer and Alarm Key

Allows patients to program their TVs to turn on as a wake-up alarm.

Closed Captioning

A text display of all audio content, including spoken dialog and non-speech information such as the identity of the speakers and symbols for sound effects and music.

Hospital Channel List

Patient master channel listing of program content. This will display content in analog or HD.

Hospital Logo Display with Time Out Setting

Display Hospital logo bitmap files as a greeting startup display.

Hospital Mode Plug & Play

Interactive and Stand-Alone modes available.

Lockout Controls

The healthcare facility can enable front panel and menu display lock-outs.

Multi-Code Remote

Eliminates interference when two or more TVs are used in close proximity to each other.

On Screen Display Language

Choose English/French/Spanish.

Power On Status Setting

Settings include Power Always On, Last Option, Standby, or Virtual Standby.

Samsung H.Browser

As an IP-based open platform for healthcare display management solution, H.Browser is fully customizable and highly flexible, so healthcare facilities can deliver state-of-the-art services. Powered by Samsung Tizen OS, H.Browser offers VOD and world-renowned applications for an incomparable in-room experience. Samsung provides a software development kit (SDK) that enables System Integrators to build superior customized healthcare TV solutions with an intuitive UI and powerful features.

Built on the HTML5 standard, H.Browser is a true Smart TV solution allowing patients to enjoy interactive services, features and VOD, as well as enabling System Integrators to easily develop more customized solutions with greater flexibility.

Sleep Timer

Allows patients to set TV turn-off time in 30-minute intervals up to 180 minutes.

USB Cloning

A quick and easy way to copy the ideal settings off one television to others on the property. Saves time and helps provide a consistent viewing experience for all televisions.

Picture and Audio

4K UHD Resolution

The NT690U Series TVs feature 3840×2160 UHD resolution, and deliver the sharp, clear, colorful images Samsung is known for.

Auto Volume Limiter

During initial product setup, minimum and maximum volume levels can be locked to help minimize disturbance to other patients.

Music Mode (Input: HDMI/PC/AV/Component)

Allows audio feedback when picture is muted.

Premium Slim Direct-Lit LED Technology

Direct-lit LED technology provides the brilliance and energy savings advantages of LED technology, along with the uniform brightness typical of CCFL displays. And it does it all with an efficiency that makes it a more affordable technology. In fact, it's possible to upgrade your rooms to LED technology for a cost comparable to CCFL technology. When you add the energy savings of up to 50% that LED offers over CCFL, you end up with the perfect solution for both you and your patients.

Quad Core Processor

Quad Core makes multitasking fast. Browse the web faster and quickly. Hospital personnel can easily download apps to the TV.

Samsung Soundbar Compatible

Samsung Healthcare displays enable soundbar compatibility by supporting HDMI-CEC. When you connect the soundbar to the Samsung Healthcare display with an HDMI cable, the TV audio settings and menu lock feature are automatically applied, so you don't have to set up the soundbar separately. You can also prevent patients from changing the settings. With a single remote, patients can control both the TV and soundbar simultaneously.

Swivel (20/20, 60/60, 90/90) Stands with Lockdown

Pedestal stands rotate with 20/20, 60/60 and 90/90 degree stops integrated in the lockdown mount bases (excludes 65" and 75" models).

Warranty

2-year parts and 2-year labor warranty backed by the Samsung Hotline at 1-866-894-0524. Optional professional installation, accessories and extended warranty are available.

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NT690U Healthcare Series TV Connectivity

1. Ex-Link 2. USB (5V 0.5A) 5. HDMI In 3 (ARC) 6. HDMI In 2

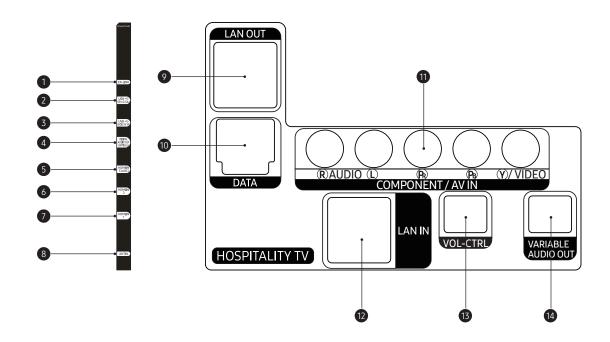
9. LAN Out 12. LAN In 10. Data 13. Vol-Ctrl

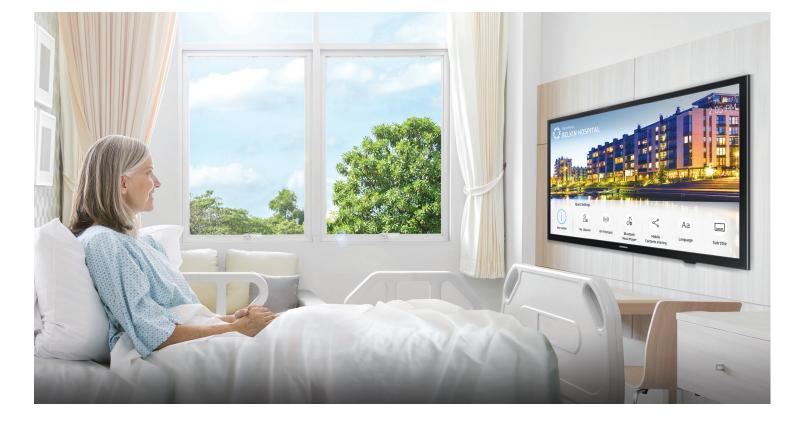
3. USB (HDD 5V 1A)

7. HDMI In 1 4. Digital Audio Out (Optical) 8. Ant In

11. Component / AV In

14. Variable Audio Out





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Samsung NT690U Series Healthcare TVs

		43"	50"	55"	65"	75"
Dienlay	Backlight	LED LED	LED	LED	LED	LED
Display	Screen Size (Diagonal)	43"	50"	55"	65"	75"
	Resolution	3840 × 2160	3840 × 2160	3840 × 2160	3840 × 2160	3840 × 2160
Audio	Dolby Digital Plus	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes
Addio	Sound Output (RMS)	20W	20W	20W	20W	20W
	Speaker Type	2CH	2CH	2CH	2CH	2CH
Video	Auto Motion Plus	Yes	Yes	Yes	Yes	Yes
Video	Color	PurColor	PurColor	PurColor	PurColor	PurColor
	Film Mode	Yes	Yes	Yes	Yes	Yes
	Contrast	Mega Contrast		Mega Contrast	Mega Contrast	Mega Contrast
	Contrast Enhancer	Yes	Mega Contrast Yes	Yes	Yes	Yes
	Film Mode	Yes	Yes	Yes	Yes	Yes
						HDR
	HDR (High Dynamic Range)	HDR	HDR	HDR	HDR	
	HDR10+	Yes	Yes	Yes	Yes	Yes
	HLG (Hybrid Log Gamma)	Yes	Yes	Yes	Yes	Yes
	Motion Rate	120	120	120	120	120
	Natural Mode Support	Yes	Yes	Yes	Yes	Yes
	Picture Engine	UHD Mastering Engine	UHD Mastering Engine	UHD Mastering Engine	UHD Mastering Engine	UHD Mastering Engine
	PQI (Picture Quality Index)	1300	1300	1300	1300	1300
	Viewing Angle (H / V)	178/178	178/178	178/178	178/178	178/178
Input & Output	HDMI (Side / Rear)	3/0	3/0	3/0	3/0	3/0
	USB (Side / Rear)	2/0	2/0	2/0	2/0	2/0
	Composite In (AV) (Side / Rear)	1 (Common Use for Component Y)	1 (Common Use for Component Y)	1 (Common Use for Component Y)	1 (Common Use for Component Y)	1 (Common Use for Compon
	PC In (D-sub) (Side / Rear)	No	No	No	No	No
	PC/DVI Audio In (Mini Jack) (Side / Rear)	No	No	No	No	No
	RF In (Terrestrial / Cable input) (Side / Rear)	1/1 (Common Use for Terrestrial)/0	1/1(Common Use for Terrestrial)/0	1/1(Common Use for Terrestrial)/0	1/1(Common Use for Terrestrial)/0	1/1(Common Use for Terrestrial)/0
	Ex-Link (RS-232C) (Side/Rear)	1/0	1/0	1/0	1/0	1/0
	HDMI A / Return Ch. Support	Yes	Yes	Yes	Yes	Yes
	Wi-Fi	Yes	Yes	Yes	Yes	Yes
	Anynet+ (HDMI-CEC)	Yes	Yes	Yes	Yes	Yes
	Pillow Speaker Adapter (Rear)	Yes	Yes	Yes	Yes	Yes
	Variable Audio Out (Side / Rear)	0/1	0/1	0/1	0/1	0/1
	Variable Audio Out Volume Control (Side / Rear)	0/1	0/1	0/1	0/1	0/1
	RJ12 (Side / Rear)	0/1	0/1	0/1	0/1	0/1
	Ethernet Bridge (LAN-Out)	0/1	0/1	0/1	0/1	0/1
Features	Accessibility	US English	US English	US English	US English	US English
	Auto Channel Search	Yes	Yes	Yes	Yes	Yes
	Auto Power Off	Yes	Yes	Yes	Yes	Yes
	BT HID Built-in	Yes	Yes	Yes	Yes	Yes
	Caption (Subtitle)	Yes	Yes	Yes	Yes	Yes
	Connect Share™ (HDD)	Yes	Yes	Yes	Yes	Yes
	ConnectShare™ (USB 2.0)	Yes	Yes	Yes	Yes	Yes
	Digital Clean View	Yes	Yes	Yes	Yes	Yes
	EPG	Yes	Yes	Yes	Yes	Yes
	Game Mode	Yes	Yes	Yes	Yes	Yes
	IPv6 Support	Yes	Yes	Yes	Yes	Yes
	OSD Language	English, Spanish, French	English, Spanish, French	English, Spanish, French	English, Spanish, French	English, Spanish, French
	USB HID Support	Yes	Yes	Yes	Yes	Yes
	V-Chip	Yes	Yes	Yes	Yes	Yes
Convergence	Mobile to TV - Mirroring, DLNA	Yes	Yes	Yes	Yes	Yes
Smart TV	360 Video Player	Yes	Yes	Yes	Yes	Yes
	360 Camera Support	Yes	Yes	Yes	Yes	Yes
	Samsung SMART TV	Smart	Smart	Smart	Smart	Smart
Smartiv	Web Browser	Yes	Yes	Yes	Yes	Yes
System	WCD DIOWSCI	103	103	103	103	103
System	Digital Broadcasting	ATSC/ClearQAM	ATSC/ClearQAM	ATSC/ClearQAM	ATSC/ClearQAM	ATSC/ClearQAM







Samsung NT690U Series Healthcare TVs

		43"	50"	55"	65"	75"
ity Features	Auto Source Mode	Yes	Yes	Yes	Yes	Yes
ity reatures	bLAN	No No	No No	No No	No No	No No
	Energy Saving Mode (BLU Control)	Yes	Yes	Yes	Yes	Yes
		No No	No No	No No	No No	No No
	External Clock Compatibility	No	No	No	No	No
	External Clock Dimming Control H.Browser Compatibility			Yes	Yes	Yes
	Healthcare Home Menu	Yes Home Menu 2017	Yes Home Menu 2017	Home Menu 2017	Home Menu 2017	Home Menu 2017
	Healthcare Plug & Play (Easy Set-up)	Yes	Yes	Yes	Yes	Yes
	Healthcare Channel List	Yes	Yes	Yes	Yes	Yes
	Channel Menu Display	Yes	Yes	Yes	Yes	Yes
	Logo Display with Time Out Setting (BMP / Movie)	Yes	Yes	Yes	Yes	Yes
	Mixed Channel List (ATSC, DVB-T/T2/C/S2, Analog)	Yes	Yes	Yes	Yes	Yes
	Multi Code Remote Control	Yes	Yes	Yes	Yes	Yes
	Music Mode (Input: PC/AV/Component/HDMI)	Yes	Yes	Yes	Yes	Yes
	Music Mode Backlight on/off	Yes	Yes	Yes	Yes	Yes
	My Channel	Yes	Yes	Yes	Yes	Yes
	On/Off Timer (Schedule)	Yes	Yes	Yes	Yes	Yes
	Power On Mode	Yes	Yes	Yes	Yes	Yes
	RJ12/IR Pass Through	Yes	Yes	Yes	Yes	Yes
	Pro:Idiom	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ DRM	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ HMS Compatibility	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ REACH (IP)	REACH 4.0	REACH 4.0	REACH 4.0	REACH 4.0	REACH 4.0
	Samsung LYNK™ REACH (RF)	REACH 4.0	REACH 4.0	REACH 4.0	REACH 4.0	REACH 4.0
	Screwed Remote Battery Cover	Yes Yes	Yes	Yes	Yes	Yes
		1	1			
	Security Mode	Yes	Yes	Yes	Yes	Yes
	Smoovie Compatibility	Yes	Yes	Yes	Yes	Yes
	Software Clock	N/A	N/A	N/A	N/A	N/A
	Soundbar Compatibility	Yes	Yes	Yes	Yes	Yes
	USB Cloning	Yes	Yes	Yes	Yes	Yes
	Welcome Message	Yes	Yes	Yes	Yes	Yes
	Bluetooth Music Player (Mobile → TV)	Yes	Yes	Yes	Yes	Yes
	Clock Back Up Supply	Yes	Yes	Yes	Yes	Yes
	S/W EPG (Solution EPG)	Yes	Yes	Yes	Yes	Yes
	Soft AP	Yes	Yes	Yes	Yes	Yes
	TTX Clock Update (Analogue)	No	No	No	No	No
	Wake-up Timer (Alarm)	Yes	Yes	Yes	Yes	Yes
	IP Over Coax	No	No	No	No	No
Design	Stand Type	Square	Square	Square	Slim Feet	Slim Feet
Design	Swivel (Left / Right)	Yes (20/20, 60/60, 90/90)	Yes (20/20, 60/60, 90/90)	Yes (20/20, 60/60, 90/90)	N/A	N/A
	Front Color	Black	Black	Black	Black	Black
	Bezel Type	3 Sides Bezel-less	3 Sides Bezel-less	3 Sides Bezel-less	3 Sides Bezel-less	3 Sides Bezel-less
	VESA Screw Size	M8	M8	M8	M8	M8
	VESA Screw Depth	20-22	20-22	20-22	20-22	20-22
	VESA Mount	200 x 200mm	200 x 200mm	200 x 200mm	400 x 300mm	400 x 400mm
	Eco Sensor	Yes	Yes	Yes	Yes	Yes
	ENERGY STAR (Latest effective version)	Yes	Yes	Yes	Yes	Yes
Power	Power Consumption (Max)	105W	135W	135W	190W	230W
	Power Consumption (Stand-by)	0.5W	0.5W	0.5W	0.5W	0.5W
	Power Consumption (Typical)	51W	61W	62W	80W	102W
	Power Supply (V)	AC110-120V 50/60Hz	AC110-120V 50/60Hz	AC110-120V 50/60Hz	AC110-120V 50/60Hz	AC110-120V 50/60Hz
Dimensions		1183 x 670 x 143mm /	1357 x 780 x 152mm /	1467 x 843 x 158mm /	1606 x 963 x 184mm /	1840 x 1118 x 198mm /
Dimensions (W x H x D)	Package Dimension (W x H x D)	46.57" x 26.38" x 5.63"	53.43" x 30.71" x 5.98"	57.76" x 33.19" x 6.22"	63.23" x 37.91" x 7.24"	72.44" x 44.02" x 7.8"
	Set Dimension with Stand (W x H x D)	963.9 x 610.9 x 226.5mm / 37.95" x 24.05 x 8.92"	1116.8 x 696.8 x 226.5mm / 43.97" x 27.43" x 8.92"	1230.5 x 759.8 x 226.5mm / 48.44" x 29.91" x 8.92"	1449.4 x 906.6 x 282.1mm / 57.06" x 35.69" x 11.11"	1673.2 x 1047.9 x 341.1mm 65.87" x 41.26" x 13.43"
	Set Dimension without Stand (W x H x D)	963.9 x 558.9 x 59.6mm / 37.95" x 22.00" x 2.35"	1116.8 x 644.2 x 59.9mm / 43.97" x 25.36" x 2.36"	1230.5 x 707.2 x 59.9mm / 48.44" x 27.84" x 2.36"	1449.4 x 830.3 x 59.9mm / 57.06" x 32.69" x 2.36"	1673.2 x 958.2 x 59.9mm / 65.87" x 37.72" x 2.36"
Weight	Package Weight	15.0kg / 33.1 lbs.	19.3kg / 42.5 lbs.	22.8kg / 50.3 lbs.	29.5kg / 65.0 lbs.	41.8kg / 92.2 lbs.
	Set Weight with Stand	11.8kg / 26.0 lbs.	15.1kg / 33.3 lbs.	17.5kg / 38.6 lbs.	21.4kg / 47.2 lbs.	31.3kg / 69.0 lbs.
	Set Weight without Stand	8.6kg / 19.0 lbs.	11.9kg / 26.2 lbs.	14.3kg / 31.5 lbs.	21.1kg / 46.5 lbs.	30.9kg / 68.1 lbs.
Accessory	Power Cable	Yes	Yes Yes	Yes	Yes Yes	Yes Yes
Accessory	Batteries (for Remote Control)	Yes	Yes	Yes	Yes	Yes
	Data Cable		1			
		Yes	Yes	Yes	Yes	Yes
	PureCare Remote (Seamless White Remote)	No	No	No	No	No
	Angle Adaptor (for Side RF Tuner)	No	No	No	No	No
	Quick Install Guide	Yes	Yes	Yes	Yes	Yes
	Remote Controller Model	TM1240A	TM1240A	TM1240A	TM1240A	TM1240A
	Security Screws (Stand Base)	Yes	Yes	Yes	N/A	N/A
	Stand Mount Kit	Yes	Yes	Yes	N/A	N/A
	Mini Wall Mount Supported	Yes	Yes	Yes	N/A	N/A
	Vesa Wall Mount Supported	Yes	Yes	Yes	Yes	Yes

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