Slim, adaptable, cost-effective displays designed for premium hospitality environments



Highlights

- Create a sophisticated viewing environment with the premium luxury design of streamlined LED displays
- Offer an upgraded guest experience with wireless connection to personal devices
- Customize important hotel content using the Samsung LYNK™ SINC Internet Protocol (IP) network
- Protect content with Samsung LYNK[™] Digital Rights Management (DRM) technology
- Offer a wide range of channel selections with the built-in DVB-T2/C/S2 tuner
- Control expenditures with energy-saving features

Create an enhanced in-room entertainment experience

Owners and managers of premium hotels want to provide the superior-quality in-room experience that sophisticated travelers expect. Yet, the cost of IP-based equipment and interactive solutions can be prohibitive. In addition, many premium TVs on the market provide a varied selection of features, but include an interface that is difficult to use.

Samsung HB890 and 690 Series displays are integrated, high-performing TVs that include many desirable features and an interface designed for ease of use. These displays contribute to a pleasant room ambiance and superior viewing experience because of their slim, streamlined design. With smart connectivity features, the screens offer myriad entertainment options for guests. Hotel staff members can customize the welcome menu with a straightforward interface. Additionally, hotels can stay on budget with affordable content-streaming options and other cost-saving features.

Upgrade premium hotel suites with superior display design

HB890 and 690 Series displays are designed especially for 5-star hotel suites. The displays feature a full metal frame and stand for an elevated level of sophistication to enhance the ambiance of high-end hotel rooms.

HB890 and 690 Series displays feature large format display (LFD) LED technology that yields an ultra-thin profile, at just 49.5 mm (1.95 in.) for the HB690 and 34.9 mm (1.37 in.) for the HB890. These displays are one-third the thickness of traditional cold cathode fluorescent lighting (CCFL) displays. The slim profile enables the displays to fit into tight hotel room spaces.

The displays also feature a narrow bezel. Without a cumbersome frame, the displays virtually blend into the background, allowing guests to focus on the images projected rather than the equipment delivering them.



Figure 1. HB890 design



Figure 2. HB690 design



Wireless, information and channel options satisfy quest requirements.

Expand flexibility with quest display options

HB890 and 690 Series displays transform a guest room TV into a multidevice entertainment hub with the following included applications:

Soft AP

Soft AP provides a software access point (AP) or hot spot. Up to four devices can connect wirelessly to the AP, and guests can adjust the signal level and change channels to suit their needs.

AllShare

AllShare technology, powered by Digital Living Network Alliance (DLNA), enables guests to play personal content through a wireless connection on their room TV. Content includes movies, photos and music.

Smart View

Smart View software provides a ready connection for guests' mobile devices. The application allows TV screen mirroring technology with an application through Wi-Fi service. Using this application, guests can view content on the TV with their own mobile devices. Compatible devices now include the Samsung GALAXY S II. Future compatible devices are expected to include the GALAXY Tab 7.0 Plus and the Apple® iPhone® and iPad® with iOS v4, v5 and v6.

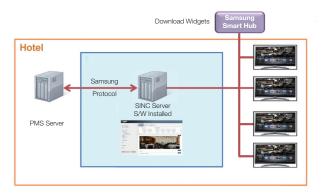


Figure 3. Samsung LYNK™ SINC is a well-organized solution for ordering and serving content to hotel room displays.

Tailor a welcome screen to suit the hotel and its quests

With the LYNK™ SINC application, hotel staff can provide a customized display menu for guests. For example, the menu can offer Hotel Info, Hotel Services, Local Info and Events sections. LYNK™ SINC includes three user interface (UI) templates so hotel personnel can choose the one that works best for the hotel's clientele. The UI is highly flexible, with transparency and background images. The LYNK™ SINC application offers the following features:

- Customized service for groups or individuals
- TV monitoring and management
- Internet protocol TV (IPTV) live multicast

The application also supports Samsung Smart Hub, which enables hotels to download widgets and deliver customized content to guests.

LYNKTM SINC helps reduce total cost of ownership (TCO) because no set-top box (STB) is needed. Also, the solution is not dependent on a system integrator (SI). In addition, no maintenance fee is required and installation costs are low. Guests can use the simplified system to access tourist guidance, weather and other useful information. They can also access popular social media sites, such as FacebookTM, TwitterTM and YouTubeTM.

SINC 2.1

- SINC Server provides Hotel Widgets

Enable TV installation without Internet Connection

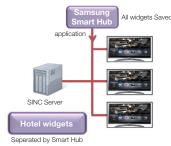


Figure 4. SINC 2.1 includes a library of widgets so users can choose and install applications without an Internet connection.



Wireless, information and channel options satisfy quest requirements.

Reduce costs and improve security with robust DRM technology

Samsung LYNK™ DRM technology provides hoteliers with a protected and cost-effective alternative to traditional hardware-based content protection systems. The solution allows encrypted content to pass safely and to display on hotel TVs.

A software-only implementation, LYNKTM DRM technology reduces the need for additional equipment and provides quicker recovery for Conditional Access System (CAS) problems. Enhanced functions include a support video on demand (VoD) system. To help ensure reliability of the system, coverage extends to the enlargement of head-end equipment for cable operators.

Offer guests a wide variety of channel selections

The built-in DVB-T2/C/S2 tuner is a Quad tuner that delivers multiple channels directly to hotel TVs without the need for a head-end system. The displays also support multiple satellite inputs from Digital Satellite Equipment Control (DiSEqC). This system lowers TCO by eliminating the need to purchase head-end devices for satellite and terrestrial channels.

It also enhances the guest experience by enabling guests to enjoy a variable range of high-definition (HD) satellite and terrestrial TV channels.

Improve the bottom line with energy-efficient features

Samsung HB890 and 690 Series offers many features to help busi- nesses save energy and reduce costs. The LED displays are cost-effective because they use less energy, emit less carbon dioxide (CO₂) and require less maintenance than conventional hospitality displays. Additionally, the displays are built with fewer harmful materials than cold- cathode fluorescent lamps (CCFLs), so manufacturing and recycling processes are more efficient and environmentally friendly.

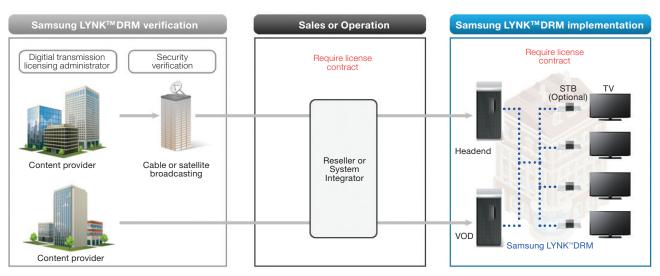


Figure 5. Samsung LYNK™ DRM provides powerful security functions with more flexibility.



HB890

55" / 65"



- HG55AB890XJ
- HG65AB890XJ



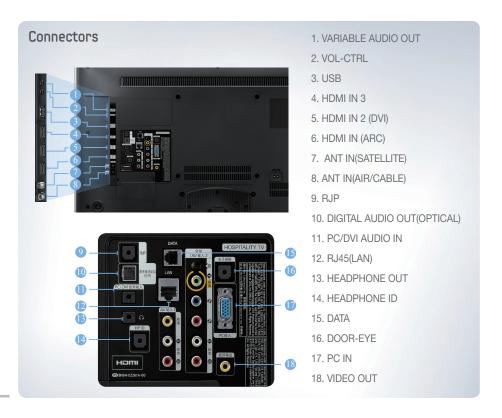


HB690

40" / 46" / 55"



- HG40AB690QJ
- HG46AB690QJ
- HG55AB690QJ



65"

• HG65AB690QJ







		HB890			
asic Info	Model Name	HG55AB890XJ	HG65AB890XJ		
	Backlight	LEC			
	Inch	55	65		
Display	Resolution	1920 x			
	HD/FHD	FH[
	Ultra Clear Panel	Yes			
	Picture Engine	3D HyperRe			
	Dynamic Contrast Ratio	Mega Co	ontrast		
	Static Contrast Ratio	5000:1 5500:1			
	Response Time	4ms 6.5m			
Video	Viewing angle (H/V)	178/178			
video	Brightness	450 cc	d/m²		
	Micro Dimming	Micro Dir	mming		
	Wide Color Enhancer Plus	Yes			
	Auto Motion Plus 120/240Hz	240h	-Iz		
	Film Mode	Yes	3		
	Dolby	Dolby Digital Plus	s / Dolby Pulse		
	SRS / DNSe+	SRS Theather			
	dts 2.0 + Digital Out	DTS Premiu			
Audio	3D Sound	Yes			
	Speaker Type	Down Firing + Full Range			
	Sound Output (RMS)	40W(10x2, wo			
	Variable Speaker Output	4W (Mon			
	Smart Hub	Yes			
	Apps	Yes			
	Photos, Clip & Music	Yes			
	Samsung SMART View	Yes (Clone View only)			
	Web Browser	Yes			
	Hand Gesture Recognition	Read			
	Voice Recognition		Yes		
	Samsung TV Apps supported	Yes			
	Samsung 3D	Yes			
	3D Converter	Yes			
	Smart Phone Remote Support	Yes			
	AllShare(Powered by DLNA)	Yes			
eature	AllShare Cast (Screen Mirroring)	Yes			
	ConnectShare™ (USB2.0)	Mov			
	Wireless LAN Built-in	Yes			
	BT HID Built-in	Yes			
	USB HID Support	Yes Yes			
	Sound Share	Yes Yes			
	OSD Language	Local Languages			
	Digital Noise Filter	Local Languages Yes			
	HDMI 1.4 3D Auto Setting	Yes			
	HDMI 1.4 3D Auto Setting HDMI 1.4 A /				
	Return Ch. Support (ARC)	Yes	3		
	EPG	Yes			



			HB890	
Basic Info	Model Name	HG55AB890XJ		HG65AB890XJ
	Anynet+ (HDMI-CEC)		Yes	
	BD Wise Plus		Yes	
	Auto Channel Search		Yes	
	Auto Power Off		Yes	
Feature	Auto Volume Leveler		Yes	
reature	Caption (Subtitle)		Yes	
	Wake-up Timer		Yes	
	Game Mode		Yes	
	Picture-In-Picture		Yes	
	Sleep Timer		Yes	
	Channel Setup On/Off		Yes	
	Hospitality Plug&Play(Easy Set-up)		Yes	
	Music Mode		Yes	
	(Imput : PC/AV/Component)			
	Music Mode BackLight on/off		Yes	
	Audio Loop in (Headphone		Yes	
	extension)			
	RJ 12 / IR Pass Through		Yes	
	External Clock Compatibility		No	
	External Clock Dimming Control		No	
	External Clock Backup supply		No	
	Power on Status Setting		Yes	
	(Keycard/Master power off)		res	
	Jack Pack Compatiblity		Yes	
	(HD media hub)			
	USB Cloning		Yes	
	Bathroom Speaker Output		Yes	
	Hotel Channel List		Yes	
	Hotel Logo Display with Time out		Yes	
	setting (BMP)			
ospitality Feature	Hotel Logo Display (Movie file)		Yes	
	Welcome message		Yes	
	Auto Source mode		Yes	
	Energy saving mode(BLU control)		Yes	
	Multi code remote control		Yes	
	Screwed Remote battery cover		Yes	
	Alarm Key		Yes	
	Mixed channel list(DTV, Analog)		Yes	
	Samsung LYNK™ REACH		Yes	
	Samsung LYNK™ SINC		Yes	
	Compatibility		\/	
	H-Browser Compatibility		Yes	
	My channel		Yes	
	Smoovie		Yes	
	Samsung LYNK™ REACH Server		No	
	Compatibility			
	Soft AP		Yes	
	S/W Clock		No	
	Sound bar compatibility		Yes	
	On/Off Timer		Voc	
	(Hospitality Factory Mode)		Yes	



			3890			
Basic Info	Model Name	HG55AB890XJ	HG65AB890XJ			
	HDMI (Side/Rear)		3/0			
	USB (Side/Rear)		1/0			
	Component In (Y/Pb/Pr) (Side/Rear)					
	Composite In (AV) (Side/Rear)	1 (Common Use for Component Y)				
	RJ45 (LAN) (Side/Rear)	1/0				
	Headphone (Side/Rear)	1/0				
	Digital Audio Out (Optical)	-	1/0			
	(Side/Rear)					
	PC In (D-sub) (Side/Rear)		No			
	PC Audio In (Mini Jack) (Side/Rear)		No			
Input & Output	DVI Audio In (Mini Jack) (Side/Rear)		No			
mpat a Output	RF In (Terrestrial/Cable input)		2/0			
	(Side/Rear)					
	RS232C (AV CONTROL)	1 (Common	use for RJP)			
	(Side/Rear)	,	<u>'</u>			
	Variable Audio Out		Yes			
	VOL-CTRL		Yes			
	Video Out		No			
	RJ12	Yes				
	Headphone ID		Yes			
	RJP(For Remote Jackpack)		Yes			
	Door-Eye		Yes			
System	DTV Tuner		TMB			
	Analog Tuner	Yes				
	Front Color	Black				
Design	Stand Type	Arch				
	Swivel (Left/Right)		No			
	Set Size with Stand (mm)	1224.2 * 741.9 * 310.3	1447.3 * 876.0 * 330.3			
imension (WxHxD)	Set Size without Stand (mm)	1224.2 * 707.2 * 34.9	1447.3 * 837.6 * 38.4			
intension (WATIAD)	Set Weight with Stand (kg)	18.3	26.9			
	Set Weight without Stand (kg)	16.8	24.6			
Vesa	Dimensions (mm)		0*400			
	Screw Size		M8			
	Power Supply (V)	AC100-24	IOV 50/60Hz			
	Power Consumption	178W	203W			
	(Rated) (Watts)	11000	200 4			
Power	Power Consumption	Under 0.3W	Under 0.3W			
	(Stand-by) (Watts)	55.	S.1.33. 3.377			
	Power Consumption	80W	100W			
	(Typical) (Watts)					
Eco	Eco Sensor		Yes			
	3D Active Glasses (Included)	Yes				
	Remote Controller Model	TM1390A + TM1240				
	Battery (for Remote Control)	Yes				
	Mini Wall Mount Support	Yes				
Accessory	Vesa Wall Mount Support		Yes			
	Slim Gender Cable		onent(AV share)			
	Power Cable		Yes			
	Quick Install Guide	<u> </u>	Yes .			
	Stand Mount Kit	No				



		HB690						
Basic Info	Model Name	HG40AB690QJ	HG46AB690QJ	HG55AB690QJ	HG65AB690QJ			
	Backlight		L	ED				
	Inch	40	46	55	65			
Display	Resolution	1920 x 1080						
	HD/FHD	FHD						
	Ultra Clear Panel	No						
	Picture Engine	3D HyperReal Engine						
	Dynamic Contrast Ratio		Mega C	ontrastga				
	Static Contrast Ratio	5000:1 5000:1 5000:1 4000:1						
	Response Time	6ms	6ms	6ms	6.5ms			
Video	Viewing angle (H/V)	178/178						
video	Brightness	350 cd/m ²						
	Micro Dimming	Micro Dimming						
	Wide Color Enhancer Plus	Yes						
	Auto Motion Plus 120/240Hz	120Hz						
	Film Mode	Yes						
	Dolby	Dolby Digital Plus / Dolby Pulse						
	SRS / DNSe+	SRS TheaterSound HD						
	dts 2.0 + Digital Out	DTS Premium Audio						
Audio	3D Sound	Yes						
	Speaker Type	Down Firing + Full Range						
	Sound Output (RMS)	10W x 2						
	Variable Speaker Output	4W (Mono, 8Ω)						
	Smart Hub	Yes						
	Apps	Yes						
	Photos, Clip & Music	Yes						
	Samsung SMART View	Yes (Clone View only)						
	Web Browser	Yes						
	Hand Gesture Recognition			eady				
	Voice Recognition	No						
	Samsung TV Apps supported	Yes						
	Samsung 3D	Yes						
	3D Converter	Yes						
	Smart Phone Remote Support	Yes						
Feature	AllShare(Powered by DLNA)	Yes						
	AllShare Cast (Screen Mirroring)	Yes						
	ConnectShare™ (USB2.0)	Movie						
	Wireless LAN Built-in	Yes						
	BT HID Built-in	Yes						
	USB HID Support	Yes						
	Sound Share	Yes						
	OSD Language	Local Languages						
	Digital Noise Filter	Yes						
	HDMI 1.4 3D Auto Setting		Y	'es				
	HDMI 1.4 A / Return Ch. Support (ARC)		Υ	'es				
	Support (ARC)	Yes						



		110 (01 000 001	HB690		
asic Info	Model Name	HG40AB690QJ	HG46AB690QJ	HG55AB690QJ	HG65AB690QJ
	Anynet+ (HDMI-CEC)		Yes		
	BD Wise Plus		Yes		
	Auto Channel Search		Yes		
	Auto Power Off		Yes		
Feature	Auto Volume Leveler		Yes		
	Caption (Subtitle)		Yes		
	Wake-up Timer		Yes		
	Game Mode		Yes		
	Picture-In-Picture		Yes		
	Sleep Timer		Yes		
	Channel Setup On/Off		Yes		
	Hospitality Plug&		Yes		
	Play(Easy Set-up)		163		
	Music Mode		Yes		
	(Imput : PC/AV/Component)		res		
	Music Mode BackLight on/off		Yes		
	Audio Loop in		Van		
	(Headphone extension)		Yes		
	RJ 12 / IR Pass Through		Yes		
	External Clock Compatibility		No		
	External Clock Dimming Control		No		
	External Clock Backup supply		No		
	Power on Status Setting				
	(Keycard/Master power off)		Yes		
	Jack Pack Compatiblity				
	(HD media hub)		Yes		
	USB Cloning		Yes		
	Bathroom Speaker Output		Yes		
	Hotel Channel List		Yes		
	Hotel Logo Display with Time		Yes		
ospitality	out setting (BMP)				
Feature	Hotel Logo Display (Movie file)		Yes		
	Welcome message		Yes		
	Auto Source mode		Yes		
	Energy saving mode(BLU		Yes		
	control)				
	Multi code remote control		Yes		
	Screwed Remote battery cover		Yes		
	Alarm Key		Yes		
	Mixed channel list(DTV, Analog)		Yes		
	Samsung LYNK™ REACH		Yes		
	Samsung LYNK™ SINC		Yes		
	Compatibility		163		
	H-Browser Compatibility		Yes		
	My channel		Yes		
	Smoovie		Yes		
	Samsung LYNK™ REACH				
	Server Compatibility		No		
	Sound bar compatibility		Yes		
	Soft		Yes		
	S/W Clock		No		
	On/Off Timer				
	(Hospitality Factory Mode)		Yes		



		HB690						
Basic Info	Model Name	HG40AB690QJ	HG46AB690QJ	HG55AB690QJ	HG65AB690QJ			
	HDMI (Side/Rear)	3/0						
	USB (Side/Rear)	1/0						
	Component In (Y/Pb/Pr)	0/1						
	(Side/Rear)							
	Composite In (AV) (Side/Rear)	0/2						
	RJ45 (LAN) (Side/Rear)		0/1					
	Headphone (Side/Rear)	0/1						
	Digital Audio Out (Optical)	0/1						
	(Side/Rear)							
	PC In (D-sub) (Side/Rear)	0/1						
	PC Audio In (Mini Jack)		0	/1				
Innut 8 Output	(Side/Rear)							
Input & Output	DVI Audio In (Mini Jack)		1 (Common Use	e for PC Audio in)				
	(Side/Rear)							
	RF In (Terrestrial/Cable input) (Side/Rear)		2	/0				
	RS232C (AV CONTROL)		• •					
	(Side/Rear)		1 (Common	Use for RJP)				
	Variable Audio Out		Y	es				
	VOL-CTRL			es				
	Video Out			/1				
	RJ12	Yes						
	Headphone ID	Yes						
	RJP(For Remote Jackpack)	Yes						
	Door-Eye		Yes					
System	DTV Tuner		MB					
System	Analog Tuner	Yes						
	Front Color			ack				
Design	Stand Type		Square		Quad			
	Swivel (Left/Right)	90/90	90/90	90/90	No			
	Set Size with Stand (mm)	928.2 * 612.0 * 227.7	1059.8* 686.0 * 227.7	1250.4 * 793.0 * 227.7	1470.1 * 935.8 * 375.3			
Dimension	Set Size without Stand (mm)	928.2 * 543.8 * 49.6	1059.8 * 617.7 * 49.6	1250.4 * 724.6 * 48.8	1470.1 * 848.2 * 55.9			
(WxHxD)	Set Weight with Stand (kg)	12.2	14.7	20.1	29.5			
	Set Weight without Stand (kg)	9.3	11.8	17.2	26.9			
Vesa	Dimensions (mm) Screw Size	200*200	400*400	400*400 18	400*400			
	Power Supply (V)			OV 50/60Hz				
	Power Consumption (Rated)		A0100-240	JV 30/00112				
		126W	131W	153W	235W			
Power	Power Consumption (Stand-by)							
1 0 11 01		Under 0.3W	Under 0.3W	Under 0.3W	Under 0.3W			
	Power Consumption (Typical)							
	(Watts)	65W	70W	85W	130W			
Eco	Eco Sensor		Y	es				
	3D Active Glasses (Included)	Yes						
	Remote Controller Model	TM1240						
	Battery (for Remote Control)	Yes						
	Mini Wall Mount Support	Yes						
Accessory	Vesa Wall Mount Support	Yes						
	Slim Gender Cable	No						
	Power Cable	Yes						
	Quick Install Guide	Yes						
	Stand Mount Kit	Yes	Yes	Yes	No			



Legal and additional information

About Samsung Electronics Co., Ltd.

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For more information about Samsung HB890 and 690 Series, visit www.samsung.com



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- 1. This feature is available only in the European HB765 model.
- 2. This feature is not available in the United States, China or Hong Kong.

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