Samsung HB890 and 690 Series

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

A I R ⚛ W A V E

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 view-ing 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 inter-face. 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, 12 mm (0.47 in.) 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

DATA SHEET

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Wireless, information and channel options satisfy guest requirements.

Expand flexibility with guest 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.

Tailor a welcome screen to suit the hotel and its guests

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.

LYNK™ 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 Facebook™, Twitter™ and YouTube™.
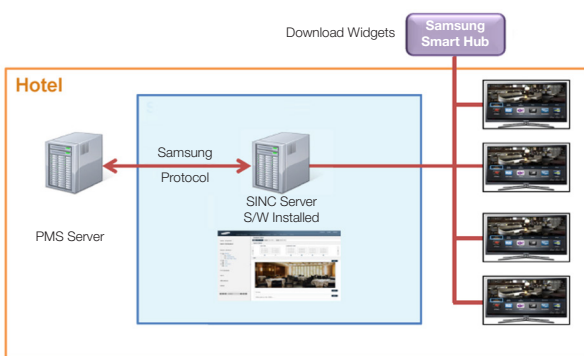

Figure 3. Samsung LYNK™ SINC is a well-organized solution for ordering and serving content to hotel room displays.
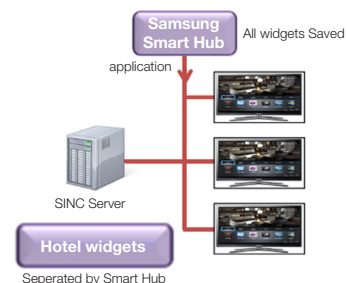

Figure 4. SINC 2.1 includes a library of widgets so users can choose and install applications without an Internet connection.

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, LYNK™ 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.2

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

Stay on budget with energy- and cost-saving elements

There are fantastic opportunities for saving energy and reducing costs. Samsung Hospitality display is a cost effective business solution due to their energy-efficient features and ability to decrease maintenance and management oversight. Our displays are filled with a number of energy efficient features that are designed to lower power consumption and your overall energy bill.
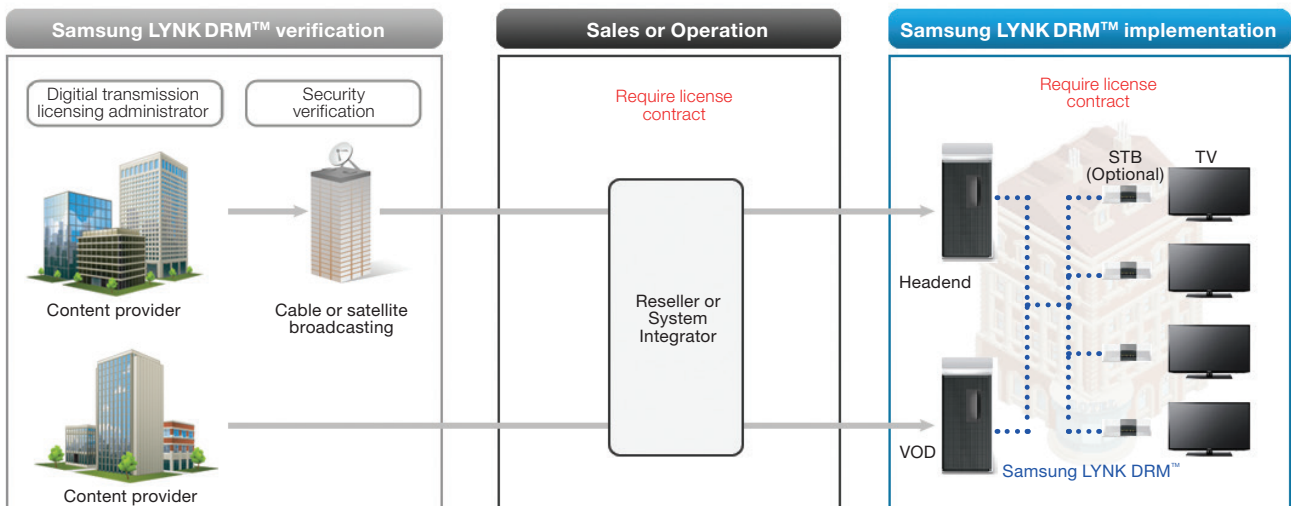
Figure 5. Samsung LYNK DRMTM provides powerful security functions with more flexibility.

HB890

46"/55"/65"

- HG46EB890XB
- HG55EB890XB
- HG65EB890XB

Connectors
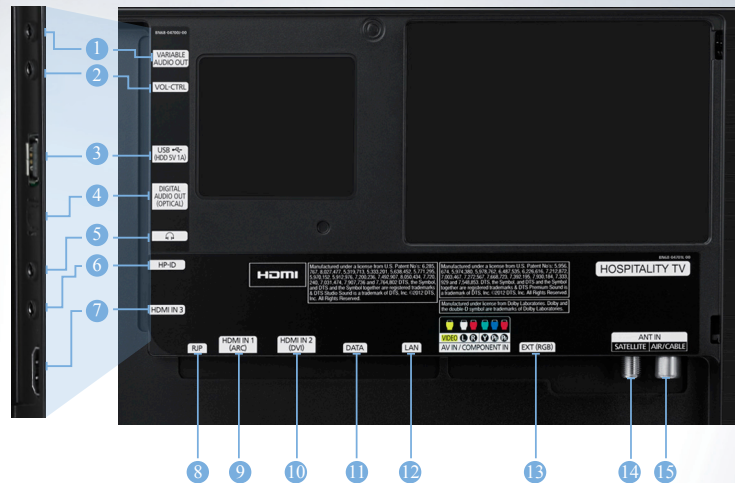
1. VARIABLE AUDIO OUT	6. HEADPHONE ID	11. DATA
2. VOL-CTRL	7. HDMI IN 3	12. RJ45(LAN)
3. USB	8. RJP	13. SCART
4. DIGITAL AUDIO OUT(OPTICAL)	9. HDMI IN (ARC)	14. ANT IN(SATELLITE)
5. HEADPHONE OUT	10. HDMI IN 2 (DVI)	15. ANT IN(AIR/CABLE)

HB690

28"

- HG28EB690BB

Connectors

1. VARIABLE AUDIO OUT
2. VOL-CTRL
3. USB
4. HDMI IN 3
5. HDMI IN 2 (DVI)
6. HDMI IN (ARC)
7. ANT IN(SATELLITE)
8. ANT IN(AIR/CABLE)
9. RJP
10. DIGITAL AUDIO OUT(OPTICAL)
11. PC/DVI AUDIO IN
12. RJ45(LAN)
13. HEADPHONE OUT
14. HEADPHONE ID
15. SCART
16. DATA
17. PC IN

32"/40"/46"/55"

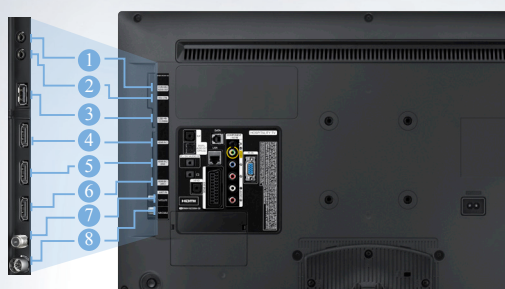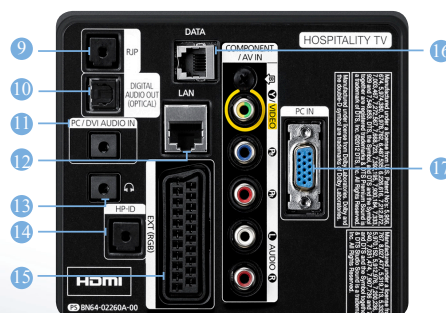- HG32EB690QB
- HG40EB690QB
- HG46EB690QB
- HG55EB690QB

Connectors

1. VARIABLE AUDIO OUT
2. VOL-CTRL
3. USB
4. HDMI IN 3
5. HDMI IN 2 (DVI)
6. HDMI IN (ARC)
7. ANT IN(SATELLITE)
8. ANT IN(AIR/CABLE)
9. RJP
10. DIGITAL AUDIO OUT(OPTICAL)
11. PC/DVI AUDIO IN
12. RJ45(LAN)
13. HEADPHONE OUT
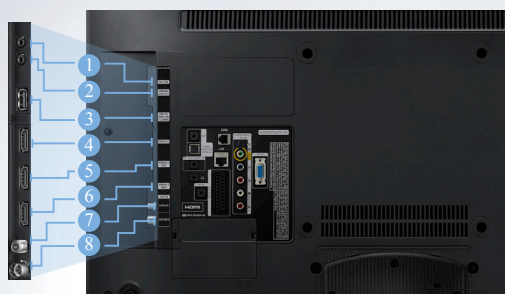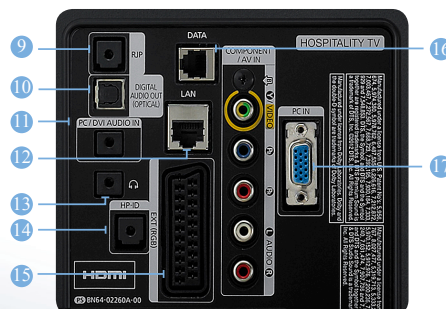14. HEADPHONE ID
15. SCART
16. DATA
17. PC IN

Samsung HB890 and 690 Series

Specifications

	EU/CIS	HB890		
		46HB890	55HB890	65HB890
Basic Info	Model Name	HG46EB890XB	HG55EB890XB	HG65EB890XB
Display	Backlight	LED	LED	LED
	Inch	46	55	65
	Resolution	1920 x 1080	1920 x 1080	1920 x 1080
	HD/FHD	FHD	FHD	FHD
	Ultra Clear Panel	Yes	Yes	Yes
Video	Picture Engine	3D HyperReal Engine	3D HyperReal Engine	3D HyperReal Engine
	Dynamic Contrast Ratio	Mega Contrast	Mega Contrast	Mega Contrast
	Static Contrast Ratio	TBD	TBD	TBD
	Response Time	TBD	TBD	TBD
	Viewing angle (H/V)	TBD	TBD	TBD
	Brightness	TBD	TBD	TBD
	Micro Dimming	Micro Dimming	Micro Dimming	Micro Dimming
	Wide Color Enhancer Plus	Yes	Yes	Yes
	Auto Motion Plus 120/240Hz	240Hz	240Hz	240Hz
	Film Mode	Yes	Yes	Yes
Audio	Dolbyt	Dolby Digital Plus / Dolby Pulse	Dolby Digital Plus / Dolby Pulse	Dolby Digital Plus / Dolby Pulse
	SRS / DNSe+	SRS TheatherSound HD	SRS TheatherSound HD	SRS TheatherSound HD
	dts 2.0 + Digital Out	DTS Premium Audio	DTS Premium Audio	DTS Premium Audio
	3D Sound	Yes	Yes	Yes
	Speaker Type	Down Firing + Full Range	Down Firing + Full Range	Down Firing + Full Range
	Sound Output (RMS)	40W(10x2, woofer 10x2)	40W(10x2, woofer 10x2)	40W(10x2, woofer 10x2)
	Variable Speaker Output	TBD	TBD	TBD
Feature	Smart Hub / Apps	Yes	Yes	Yes
	Photos, Clip & Music	Yes	Yes	Yes
	Samsung SMART View	Yes (Clone View only)	Yes (Clone View only)	Yes (Clone View only)
	Web Browser	Yes	Yes	Yes
	Voice Recognition	Yes	Yes	Yes
	Samsung TV Apps supported	Yes	Yes	Yes
	Samsung 3D / 3D Converter	Yes	Yes	Yes
	Smart Phone Remote Support	Yes	Yes	Yes
	AllShare(Powered by DLNA)	Yes	Yes	Yes
	AllShare Cast (Screen Mirroring)	Yes	Yes	Yes
	ConnectShare™ (USB2.0)	Movie	Movie	Movie
	Wireless LAN Built-in	Yes	Yes	Yes
	Soft AP / BT HID Built-in	Yes	Yes	Yes
	USB HID Support / Sound Share	Yes	Yes	Yes
	Hbb TV / Digital Noise Filter	Yes	Yes	Yes
	OSD Language		26 European Languages	
	HDMI 1.4 3D Auto Setting	Yes	Yes	Yes
	HDMI 1.4 A / Return Ch. Support (ARC)	Yes	Yes	Yes
	Anynet+ (HDMI-CEC) / Sleep Timer	Yes	Yes	Yes
	BD Wise Plus / Auto Channel Search	Yes	Yes	Yes
	Auto Power Off / Auto Volume Leveler	Yes	Yes	Yes
	Caption (Subtitle) / Wake-up Timer	Yes	Yes	Yes
	Game Mode / Picture-In-Picture	Yes	Yes	Yes

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Specifications

EU/CIS		HB890		
		46HB890	55HB890	65HB890
Basic Info	Model Name	HG46EB890XB	HG55EB890XB	HG65EB890XB
Hospitality Feature	Hospitality Plug&Play(Easy Set-up)	Yes	Yes	Yes
	Music Mode (Imput : PC/AV/Component)	Yes	Yes	Yes
	Music Mode BackLight on/off	Yes	Yes	Yes
	Audio Loop in (Headphone extension)	Yes	Yes	Yes
	RJ 12 / IR Pass Through	Yes	Yes	Yes
	Power on Status Setting (Keycard/Master power off)	Yes	Yes	Yes
	Jack Pack Compatiblity (HD media hub)	Yes	Yes	Yes
	USB Cloning	Yes	Yes	Yes
	Bathroom Speaker Output	Yes	Yes	Yes
	Hotel Channel List	Yes	Yes	Yes
	Hotel Logo Display with Time out setting (BMP)	Yes	Yes	Yes
	Hotel Logo Display (Movie file)	Yes	Yes	Yes
	Welcome message	Yes	Yes	Yes
	Auto Source mode	Yes	Yes	Yes
	Energy saving mode(BLU control)	Yes	Yes	Yes
	Multi code remote control	Yes	Yes	Yes
	Screwed Remote battery cover	Yes	Yes	Yes
	Alarm Key	Yes	Yes	Yes
	Mixed channel list (DVB-T/T2/C/S2, Analog)	Yes	Yes	Yes
	Samsung LYNK™ REACH	Yes	Yes	Yes
	Samsung LYNK™ SINC Compatibility	Yes	Yes	Yes
	H-Browser Compatibility	Yes	Yes	Yes
	My channel	Yes	Yes	Yes
	Smoovie	Yes	Yes	Yes
	Samsung LYNK™ REACH Server Compatibility	Yes	Yes	Yes
	Sound bar compatibility	Yes	Yes	Yes
	Samsung LYNK™ DRM	Yes	Yes	Yes
	S/W Clock	No	No	No
System	DTV Tuner	DVB-T2/C/S2	DVB-T2/C/S2	DVB-T2/C/S2
	Analog Tuner	Yes	Yes	Yes
	CI/ CI+	CI+ (1.3)	CI+ (1.3)	CI+ (1.3)
	MHP / MHEG (version)/ OHTV / GINGA	MHEG 5(UK, Ireland)	MHEG 5(UK, Ireland)	MHEG 5(UK, Ireland)
	DiSEqC	Yes	Yes	Yes
Design	Front Color	Black	Black	Black
	Stand Type	Arch	Arch	Arch
	Swivel (Left/Right)	No	No	No
Dimension (WxHxD)	Set Size with Stand (mm)	1032.7 * 634.3 * 257.7	1224.2 * 741.9 * 310.3	1447.3 * 873.7 * 368.4
	Set Size without Stand (mm)	1032.7 * 599.5 * 34.9	1224.2 * 707.2 * 34.9	1447.3 * 837.6 * 38.4
	Set Weight with Stand (kg)	14.0	18.3	26.9
	Set Weight without Stand (kg)	12.8	16.8	24.6
Vesa	Dimensions (mm)	200*200	400*400	400*400
	Screw Size	M8	M8	M8

Samsung HB890 and 690 Series

Specifications

EU/CIS		HB890		
		46HB890	55HB890	65HB890
Basic Info	Model Name	HG46EB890XB	HG55EB890XB	HG65EB890XB
Input & Output	HDMI (Side/Rear)	3/0	3/0	3/0
	USB (Side/Rear)	1/0	1/0	1/0
	Component In (Y/Pb/Pr) (Side/Rear)	1/0	1/0	1/0
	Composite In (AV) (Side/Rear)	1 (Common Use for Component Y)		
	RJ45(LAN) (Side/Rear)	1/0	1/0	1/0
	Headphone (Side/Rear)	1/0	1/0	1/0
	Digital Audio Out (Optical) (Side/Rear)	1/0	1/0	1/0
	RF In (Terrestrial/Cable input) (Side/Rear)	1/0	1/0	1/0
	RF In (Satellite input) (Side/Rear)	1/0	1/0	1/0
	RS232C (AV CONTROL) (Side/Rear)	1 (Common Use for RJP)	1 (Common Use for RJP)	1 (Common Use for RJP)
	CI Slot (Side/Rear)	1/0	1/0	1/0
	Scart (Side/Rear)	1/0	1/0	1/0
	Variable Audio Out	Yes	Yes	Yes
	VOL-CTRL	Yes	Yes	Yes
	RJ12	Yes	Yes	Yes
	Headphone ID	Yes	Yes	Yes
	RJP(For Remote Jackpack)	Yes	Yes	Yes
Power	Power Supply (V)	AC220-240V 50/60Hz	AC220-240V 50/60Hz	AC220-240V 50/60Hz
	Power Consumption (Rated) (Watts)	TBD	TBD	TBD
	Power Consumption (Stand-by) (Watts)	TBD	TBD	TBD
	Power Consumption (Typical) (Watts)	TBD	TBD	TBD
	Yearly Power consumption (EU standard) (KWh)	TBD	TBD	TBD
Eco	Energy Efficiency Class	TBD	TBD	TBD
	Eco Sensor	Yes	Yes	Yes
Accessory	Remote Controller Model	TM1390A + TM1240	TM1390A + TM1240	TM1390A + TM1240
	Battery (for Remote Control)	Yes	Yes	Yes
	Mini Wall Mount Support	Yes	Yes	Yes
	Vesa Wall Mount Support	Yes	Yes	Yes
	Slim Gender Cable	SCART, 1AV, 1Component(AV share), CI+		
	Power Cable	Yes	Yes	Yes
	Quick Install Guide	Yes	Yes	Yes
	Data Cable	Yes	Yes	Yes
	Purecare White remote control	No	No	No
	Angle Adapter (for Side RF Tuner)	No	No	No
	Stand Mount Kit	No	No	No

Specifications

	EU/CIS	HB690				
		28HB690	32HB690	40HB690	46HB690	55HB690
Basic Info	Model Name	HG28EB690BB	HG32EB690QB	HG40EB690QB	HG46EB690QB	HG55EB690QB
Display	Backlight	LED	LED	LED	LED	LED
	Inch	28	32	40	46	55
	Resolution	1366 x 768	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	HD/FHD	HD	FHD	FHD	FHD	FHD
Video	Picture Engine	HyperReal Engine	HyperReal Engine	HyperReal Engine	HyperReal Engine	HyperReal Engine
	Dynamic Contrast Ratio	Mega Contrast	Mega Contrast	Mega Contrast	Mega Contrast	Mega Contrast
	Static Contrast Ratio	TBD	TBD	TBD	TBD	TBD
	Response Time	TBD	TBD	TBD	TBD	TBD
	Viewing angle (H/V)	TBD	TBD	TBD	TBD	TBD
	Brightness	TBD	TBD	TBD	TBD	TBD
	Micro Dimming	No	Micro Dimming	Micro Dimming	Micro Dimming	Micro Dimming
	Wide Color Enhancer Plus	Yes	Yes	Yes	Yes	Yes
	Auto Motion Plus 120/240Hz	No	120Hz	120Hz	120Hz	120Hz
	Film Mode	Yes	Yes	Yes	Yes	Yes
Audio	Dolby	Dolby Digital Plus / Dolby Pulse				
	SRS / DNSe+	SRS TheaterSound HD				
	dts 2.0 + Digital Out	DTS Premium Audio				
	Speaker Type	Down Firing + Full Range				
	Sound Output (RMS)	5W x 2	TBD	TBD	TBD	TBD
	Variable Speaker Output	TBD	TBD	TBD	TBD	TBD
Feature	Smart Hub	Yes	Yes	Yes	Yes	Yes
	Apps	Yes	Yes	Yes	Yes	Yes
	Photos, Clip & Music	Yes	Yes	Yes	Yes	Yes
	Samsung SMART View	Yes (Clone View only)				
	Web Browser	Yes	Yes	Yes	Yes	Yes
	Samsung TV Apps supported	Yes	Yes	Yes	Yes	Yes
	Smart Phone Remote Support	No	Yes	Yes	Yes	Yes
	AllShare(Powered by DLNA)	No	Yes	Yes	Yes	Yes
	AllShare Cast (Screen Mirroring)	No	Yes	Yes	Yes	Yes
	ConnectShare™ (USB2.0)	Movie	Movie	Movie	Movie	Movie
	Wireless LAN Built-in	No	Yes	Yes	Yes	Yes
	Soft AP	No	Yes	Yes	Yes	Yes
	BT HID Built-in	No	Yes	Yes	Yes	Yes
	USB HID Support	No	Yes	Yes	Yes	Yes
	Sound Share	No	Yes	Yes	Yes	Yes
	Hbb TV / Digital Noise Filter	Yes	Yes	Yes	Yes	Yes
	OSD Language	26 European Languages				
	HDMI 1.4 A / Return Ch. Support (ARC)	Yes	Yes	Yes	Yes	Yes
	Anynet+ (HDMI-CEC) / Sleep Timer	Yes	Yes	Yes	Yes	Yes
	BD Wise Plus / Auto Channel Search	Yes	Yes	Yes	Yes	Yes
	Auto Power Off / Auto Volume Leveler	Yes	Yes	Yes	Yes	Yes
	Caption (Subtitle) / Wake-up Timer	Yes	Yes	Yes	Yes	Yes
	Game Mode / Picture-In-Picture	Yes	Yes	Yes	Yes	Yes

Specifications

EU/CIS		HB690				
		28HB690	32HB690	40HB690	46HB690	55HB690
Basic Info	Model Name	HG28EB690BB	HG32EB690QB	HG40EB690QB	HG46EB690QB	HG55EB690QB
Hospitality Feature	Samsung LYNK™ REACH	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ SINC Compatibility	Yes	Yes	Yes	Yes	Yes
	H-Browser Compatibility	Yes	Yes	Yes	Yes	Yes
	My channel	Yes	Yes	Yes	Yes	Yes
	Smoovie	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ REACH Server Compatibility	Yes	Yes	Yes	Yes	Yes
	Sound bar compatibility	Yes	Yes	Yes	Yes	Yes
	Samsung LYNK™ DRM	Yes	Yes	Yes	Yes	Yes
Input & Output	HDMI (Side/Rear)	3/0	3/0	3/0	3/0	3/0
	USB (Side/Rear)	1/0	1/0	1/0	1/0	1/0
	Component In (Y/Pb/Pr) (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	Composite In (AV) (Side/Rear)	1 (Common Use for Component Y)				
	RJ45(LAN) (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	Headphone (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	Digital Audio Out (Optical) (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	PC In (D-sub) (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	PC Audio In (Mini Jack) (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	DVI Audio In (Mini Jack) (Side/Rear)	1 (Common Use for PC Audio in)				
	RF In (Terrestrial/Cable input) (Side/Rear)	1/0	1/0	1/0	1/0	1/0
	RF In (Satellite input) (Side/Rear)	1/0	1/0	1/0	1/0	1/0
	RS232C (AV CONTROL) (Side/Rear)	1 (Common Use for RJP)				
	CI Slot (Side/Rear)	1/0	1/0	1/0	1/0	1/0
	Scart (Side/Rear)	0/1	0/1	0/1	0/1	0/1
	Variable Audio Out	Yes	Yes	Yes	Yes	Yes
	VOL-CTRL	Yes	Yes	Yes	Yes	Yes
	RJ12	Yes	Yes	Yes	Yes	Yes
	Headphone ID	Yes	Yes	Yes	Yes	Yes
	RJP(For Remote Jackpack)	Yes	Yes	Yes	Yes	Yes
System	DTV Tuner	DVB-T2/C/S2	DVB-T2/C/S2	DVB-T2/C/S2	DVB-T2/C/S2	DVB-T2/C/S2
	Analog Tuner	Yes	Yes	Yes	Yes	Yes
	CI/ CI+	CI+ (1.3)	CI+ (1.3)	CI+ (1.3)	CI+ (1.3)	CI+ (1.3)
	MHP / MHEG (version)/ OHTV / GINGA	MHEG 5 (UK, Ireland)				
	DiSEqC	Yes	Yes	Yes	Yes	Yes
Design	Front Color	Black	Black	Black	Black	Black
	Stand Type	Round	Square	Square	Square	Square
	Swivel (Left/Right)	No	90/90	90/90	90/90	90/90
Dimension (WxHxD)	Set Size with Stand (mm)	645.0*435.6*252.6	738.2*502.2*191.7	928.2*612.0*227.7	1059.8*686.0*227.7	1250.4*793.0*227.7
	Set Size without Stand (mm)	645.0*384.9*49.5	738.2*437.0*49.5	928.2*543.8*49.6	1059.8*617.7*49.6	1250.4*724.6*48.8
	Set Weight with Stand (kg)	4.6	7.2	11.7	14.4	19.8
	Set Weight without Stand (kg)	4.2	5.2	8.8	11.5	16.9
Vesa	Dimensions (mm)	100*100	200*200	200*200	400*400	400*400
	Screw Size	M4	M8	M8	M8	M8

Specifications

	EU/CIS	HB690				
		28HB690	32HB690	40HB690	46HB690	55HB690
Basic Info	Model Name	HG28EB690BB	HG32EB690QB	HG40EB690QB	HG46EB690QB	HG55EB690QB
Hospitality Feature	Hospitality Plug&Play (Easy Set-up)	Yes	Yes	Yes	Yes	Yes
	Music Mode (Imput : PC/AV/Component)	Yes	Yes	Yes	Yes	Yes
	Music Mode BackLight on/off	Yes	Yes	Yes	Yes	Yes
	Audio Loop in (Headphone extension)	Yes	Yes	Yes	Yes	Yes
	RJ 12 / IR Pass Through	Yes	Yes	Yes	Yes	Yes
	Power on Status Setting	Yes	Yes	Yes	Yes	Yes
	Jack Pack Compatiblity (HD media hub)	Yes	Yes	Yes	Yes	Yes
	USB Cloning	Yes	Yes	Yes	Yes	Yes
	Bathroom Speaker Output	Yes	Yes	Yes	Yes	Yes
	Hotel Channel List	Yes	Yes	Yes	Yes	Yes
	Hotel Logo Display with Time out setting (BMP)	Yes	Yes	Yes	Yes	Yes
	Hotel Logo Display (Movie file)	Yes	Yes	Yes	Yes	Yes
	Welcome message	Yes	Yes	Yes	Yes	Yes
	Auto Source mode	Yes	Yes	Yes	Yes	Yes
	Energy saving mode(BLU control)	Yes	Yes	Yes	Yes	Yes
	Alarm Key	Yes	Yes	Yes	Yes	Yes
	Mixed channel list(DVB-T/T2/C/S2, Analog)	Yes	Yes	Yes	Yes	Yes
Power	Power Supply (V)	AC220-240V 50/60Hz				
	Power Consumption (Rated) (Watts)	TBD	TBD	TBD	TBD	TBD
	Power Consumption (Stand-by) (Watts)	TBD	TBD	TBD	TBD	TBD
	Power Consumption (Typical) (Watts)	TBD	TBD	TBD	TBD	TBD
	Yearly Power consumption (EU standard) (KWh)	TBD	TBD	TBD	TBD	TBD
Eco	Energy Efficiency Class	TBD	TBD	TBD	TBD	TBD
	Eco Sensor	No	Yes	Yes	Yes	Yes
Accessory	Remote Controller Model	TM1240	TM1240	TM1240	TM1240	TM1240
	Battery (for Remote Control)	Yes	Yes	Yes	Yes	Yes
	Mini Wall Mount Support	No	Yes	Yes	Yes	Yes
	Vesa Wall Mount Support	Yes	Yes	Yes	Yes	Yes
	Slim Gender Cable	CI+	CI+	CI+	CI+	CI+
	Power Cable	Yes	Yes	Yes	Yes	Yes
	Quick Install Guide	Yes	Yes	Yes	Yes	Yes
	Data Cable	Yes	Yes	Yes	Yes	Yes
	Angle Adapter (for Side RF Tuner)	2	No	No	No	No
	Stand Mount Kit	No	Yes	Yes	Yes	Yes

Legal and additional information

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. is a global leader in semi-conductor, telecommunication, digital media and digital convergence technologies with 2011 consolidated sales of US$143.1 billion. Employing approximately 222,000 people in 205 offices across 71 countries, the company operates two separate organizations to coordinate its nine independent business units: Digital Media & Communications, comprising Visual Display, Mobile Communications, Telecommunication Systems, Digital Appliances, IT Solutions, and Digital Imaging; and Device Solutions, consisting of Memory, System LSI and LED. Recognized for its industry-leading performance across a range of economic, environmental and social criteria, Samsung Electronics was named the world's most sustainable technology company in the 2011 Dow Jones Sustainability Index. For more information, please visit www.samsung.com

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