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Samsung HC89x Series

Sophisticated metallic design and high-end features for state-of-the-art hospitality environments

Highlights

- Create a sophisticated viewing environment with a premium luxury metal design and state-of-the-art technology

- Offer an upgraded guest experience with wireless connection to personal devices

- Customize important hotel content using the brand new Samsung LYNK™ SINC

- Protect content with Samsung LYNK Digital Rights Management (DRM) technology

- Offer guests a wide range of channel selections

- Control expenditures with simplified device management and optimized resource management

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. In addition, many premium TVs on the market provide a varied selection of features, but include an interface that is difficult to use.

Samsung HC89x 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 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

HC89x 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.

HC89x Series displays feature Samsung's advanced LED technology that yields an ultra-thin profile. The slim profile enables the displays to fit perfectly into tight hotel room spaces and further elevates in-room décor.

In addition to the slim design, the displays offer a true in-room technology, information and entertainment hub that integrates controllability, manageability and entertainment functionality.

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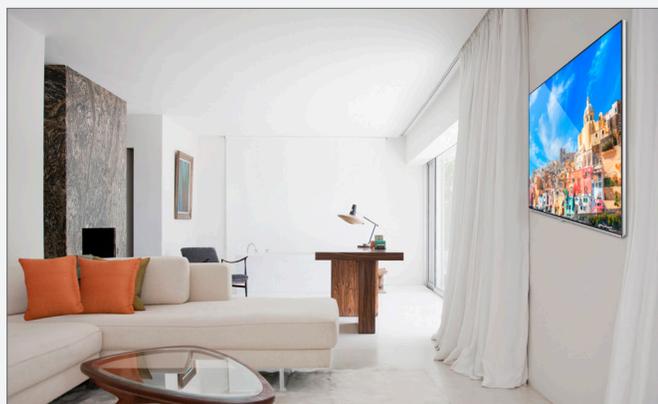
Create an in-room information hub to satisfy guest expectations

Offer flexible entertainment through convenient wireless connectivity

HC89x Series displays transform the guest experience by providing an in-room, multi-device entertainment hub with the following features:

Smart View

Smart View is an easy TV-mobile interaction feature that enables guests to watch TV channels on a broad range of mobile devices. Smart View TV-to-mobile interaction includes Live Channel Mirroring for all channels using a Samsung GALAXY® device and free-to-air channels (only) using an iPhone®. Mobile-to-TV interaction pushes content such as photos, videos and music files from a mobile device to an intuitive interface on the TV for easy selection and viewing. Mobile-to-TV interaction is not restricted to the mobile device platform used. Guest can enjoy their mobile content on the larger in-room TV.

Screen Mirroring

Screen Mirroring enables guests to share the screen of a mobile device on the TV. This sharing capability includes the screen configuration in addition to content. This means that the TV displays exactly what displays on the mobile device, with no content restrictions.

AllShare®

AllShare technology, powered by the 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.

Soft AP

Soft AP provides a software access point (AP) or hotspot. Up to four devices can connect wirelessly to the AP. Hotel managers can change the signal level and channel of the Soft AP to suit the connectivity environment of different rooms. Hotels that provide access to the internet can make the internet connection available to guests through the display's Soft AP.

Tailor the in-room display as an information and entertainment hub with a fully customizable content management solution

With LYNK SINC 3.0, hotels can provide guests with a variety of information in a customized display menu. The LYNK SINC solution offers the following benefits:

Customizable User Interface (UI)

The interface features a grid template where each or conjoining grids can be populated with content that hotels would like to offer their guests. The new interface offers a more detailed grid-type layout that enables hotels to design unique, highly customized home screens that promote branding and impress guests.

Figure 2. LYNK SINC 3.0 UI enables full customization for creating a unique hotel identity

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Enhance guests' convenience by providing a channel stream and other useful information on a home screen

Efficient Management

LYNK SINC 3.0 enables managers to assign various guests to groups that have similar sets of channels and content needs. Managers can create multiple groups of displays with dedicated content for each group, which is ideal for targeting a specific group of guests such as convention attendees.
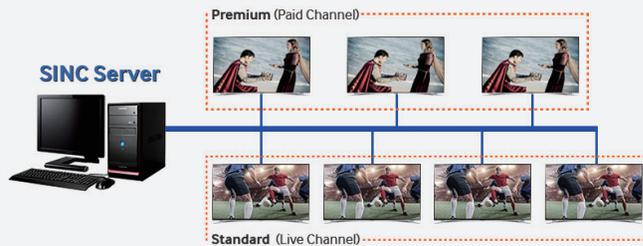
Figure 3. Hotels can organize guests into groups and manage message, channel and content per different groups or even individual guests

Easy and Convenient Guest Experience

Ease-of-use features include the TV display of all necessary information such as hotel services, tourist information, weather, flight information and so on. Multiple languages are supported.

In addition, Samsung apps and TV features enable guests to use familiar apps through the SINC solution, including Facebook®, Twitter® and YouTube™. Guests can link to content, apps and people with TV features such as Screen Mirroring, AllShare, Soft AP and more.

Free Weather Information

Weather information can be provided free of charge from third-party service providers of choice. The weather information is automatically updated, providing guest with the latest weather information for planning their outdoor activities

Timely Flight Information

Hotels can select airport flight information from third-party service providers of choice. Availability of up-to-date flight information is a great benefit to guests who want to coordinate their checkout time with their flight departure.

Convenient Messaging Services

Hotels can provide real-time messages for a guest or a group of guests based on guest information from a PMS server.

Provide convenience even in a no-network environment

HC89x Series displays offer an alternative way for hotels to enhance guests' convenience. With the Hospitality Home Menu, hotels can provide guests with a simple home screen that displays a live channel stream and shows additional information such as the time and date, a welcome message and hotel information. Easy access to commonly used features is also available from the Hospitality Home Menu. The welcome message, hotel information, and easy access features can be edited from the factory mode. The customizations made to the Home Menu can be easily cloned to a USB, which can then be used to apply the same customization to other Samsung Hospitality Displays.
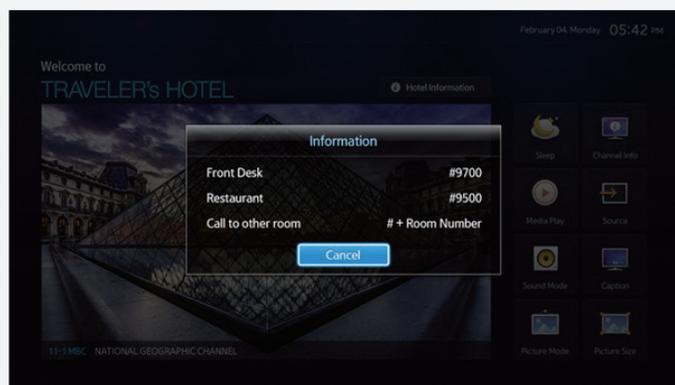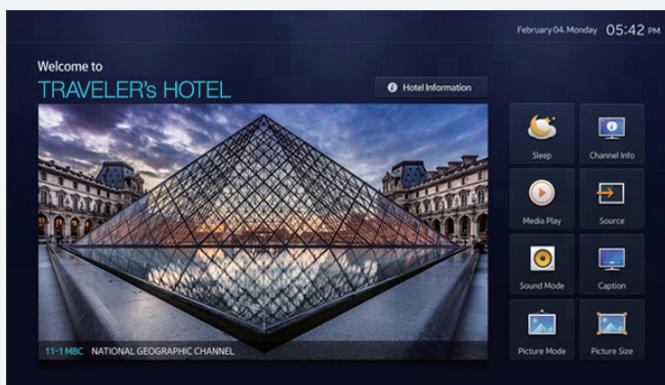
Figure 4. Guests can access the welcome message and hotel information easily through the Hospitality Home Menu

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Maintain robust security with Samsung's software-based LYNK DRM technology

Enhance content protection with a pure software DRM solution

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.

LYNK DRM solves the market need to replace hardware-only based solutions with a new alternative solution. 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 Online Key Renewal without the need to replace TVs, STBs or head-ends.

To help ensure reliability, the ecosystem expansion provided by LYNK DRM includes the addition of head-end providers: Technicolor, VideoPropulsion and Acentic. The expansion also includes VoD service providers (SIs): Quadriga and Swisscom.
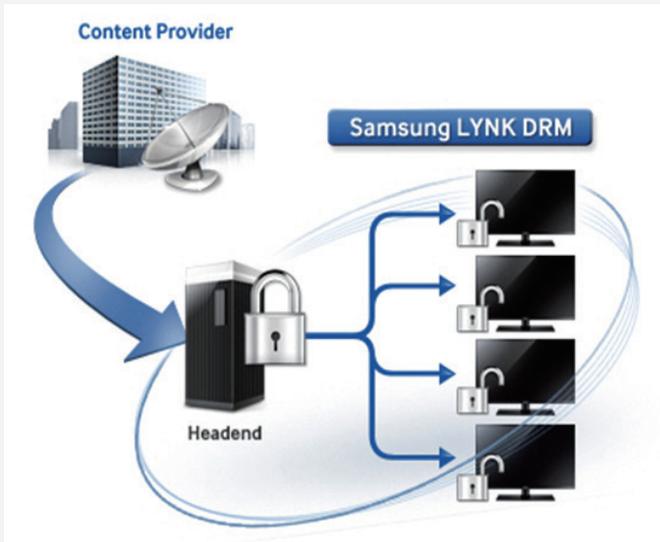
Figure 5. Samsung LYNK DRM technology allows encrypted content to be passed and displayed safely on hotel TVs

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. This system lowers TCO by eliminating the need to purchase head-end devices for satellite and terrestrial channels.

HC89x Series displays enhance the guest experience by enabling guests to enjoy a variable range of high-definition (HD) TV channels. The tuner is connected to multiple sources (satellite, cable and Internet), so that guests have expanded access to multiple TV channels, rather than limited access to a single source.

Minimize overall TCO with simplified device management and optimized resource management

Samsung Hospitality Displays provide centralized management from a control room, and the convenient and efficient management features provided default also reduce trips to the rooms for display maintenance. Being connected to the hotel's network infrastructure, each in-room display can be monitored and even have the content grouping policy and EPG deployed instantaneously from the control room. The simplified configuration of having just the display that delivers similar convenience without the complexity of an additional set-top box(STB) provides hotels the benefit of one less device to worry about.

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Samsung HC89x Series

HC89x

40" / 46" / 55" / 60"

- HG40EC890XB
- HG46EC890XB
- HG55EC890XB
- HG60EC890XB

Connectors
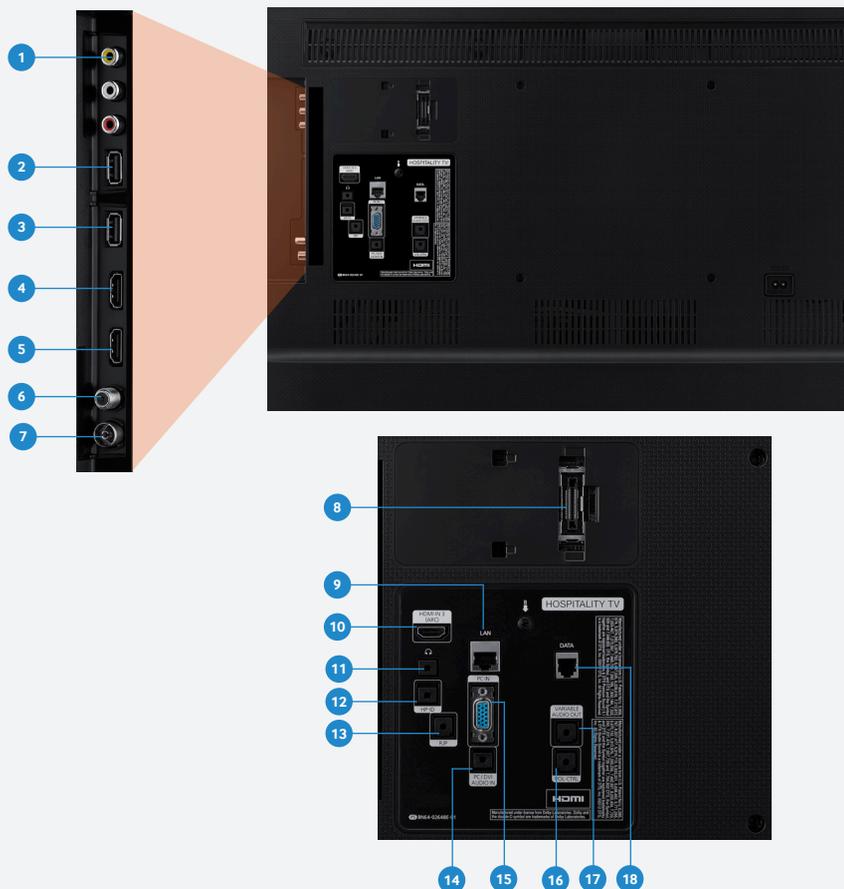
1. COMPONENT / AV-IN	7. ANT IN (AIR/CABLE)	13. RJP
2. USB	8. CI SLOT	14. PC/DVI AUDIO IN
3. USB	9. ETHERNET(LAN)	15. PC IN (D-SUB)
4. HDMI IN 2 (PVI)	10. HDMI IN 3 (ARC)	16. VOL-CTRL
5. HDMI IN 1	11. HEADPHONE	17. VARIABLE AUDIO OUT
6. ANT IN (SATELLITE)	12. HEADPHONE ID	18. DATA

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Samsung HC890 Series

Specifications

		40HC890	46HC890	55HC890	60HC890
Display	Backlight	LED			
	Inch	40	46	55	60
	HD/FHD	FHD			
	Resolution	1,920 x 1,080			
Video	Picture Engine	HyperReal Engine			
	Static Contrast Ratio	5,000:1			4,500:1
	Response Time	6ms	4ms		
	Viewing angle (Horizontal/Vertical)	178 / 178			
	Brightness	350 cd/m²	400 cd/m²		
	Micro Dimming	Micro Dimming Pro			
	Wide Color Enhancer Plus	Yes			
	Auto Motion Plus	100Hz	200Hz		
	Film Mode	Yes			
Audio	Dolby	Dolby MS10			
	DTS Studio Sound / DNSe+	DTS Studio Sound			
	DTS Premium Sound / DTS Premium Sound 5.1	DTS Premium Sound 5.1			
	3D Sound	Yes			
	Auto Volume Leveler	Yes			
	Speaker Type	Down Firing + New Waveguide			
	Sound Output (RMS)	40W(Left:10W, Right:10W, Woofer:20W)			
	Woofer	Yes			
	Variable Speaker Output	4W (Mono, 8Ω)			
Feature	Smart Hub	Yes			
	Apps	Yes			
	Web Browser	Yes			
	Samsung Smart View	Yes			
	Voice Control	Yes			
	Samsung 3D	Yes			
	3D Converter	Yes			
	Wireless LAN Built-in	Yes			
	AllShare - Contents Sharing	Yes			
	AllShare - Screen Mirroring	Yes			
	ConnectShare™ (USB 2.0)	Movie			
	Wake On LAN	Yes			
	Soft AP	Yes			
	BT HID Built-in	Yes			
	USB HID Support	Yes			
	TV SoundConnect	Yes			
	OSD Language	27 European Languages			
	Digital Clean View	Yes			

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Specifications

		40HC890	46HC890	55HC890	60HC890
Feature	HDMI 1.4 3D Auto Setting		Yes		
	HDMI 1.4 A / Return Ch. Support (ARC)		Yes		
	Anynet+ (HDMI-CEC)		Yes		
	BD Wise Plus		Yes		
	Auto Channel Search		Yes		
	Auto Power Off		Yes		
	EPG		Yes		
	Teletext (TTX)		Yes		
	Caption (Subtitle)		Yes		
	Wake-up Timer		Yes		
	Sports Mode 2.0		Basic		
	Game Mode		Yes		
	Picture-In-Picture		Yes		
	Sleep Timer		Yes		
	Hbb TV		Yes		
Hospitality Feature	Hospitality Home Menu		Yes		
	Samsung LYNK™ REACH		Yes		
	Samsung LYNK™ REACH Server Compatibility		Yes		
	Samsung LYNK™ SINC Compatibility		Yes		
	H.Browser Compatibility		Yes		
	Hospitality Plug&Play (Easy Set-up)		Yes		
	RJ 12 / IR Pass Through		Yes		
	Power on Mode		Yes		
	USB Cloning		Yes		
	Hotel Channel List		Yes		
	Mixed Channel List (ATSC, DVB-T/T2/C/S2, Analog)		Yes		
	Logo Display with Time Out Setting (BMP/Movie)		Yes		
	Welcome Message		Yes		
	Music Mode (Input : PC/AV/Component/HDMI)		Yes		
	Music Mode BackLight on/off		Yes		
	Auto Source Mode		Yes		
	Energy Saving Mode(BLU control)		Yes		

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		40HC890	46HC890	55HC890	60HC890
Hospitality Feature	External Clock Compatibility		No		
	Clock Back Up Supply		Yes		
	External Clock Dimming Control		No		
	Software Clock		Yes		
	My Channel		Yes		
	Multi Code Remote Control		Yes		
	Screwed Remote Battery Cover		Yes		
	Security Mode		No		
	Smoovie Compatibility		Yes		
	Sound bar compatibility		Yes		
	Samsung LYNK™ DRM		Yes (Accentic)		
Input & Output	HDMI (Side/Rear)		2/1		
	USB (Side/Rear)		2/0		
	Component In (Y/Pb/Pr) (Side/Rear)		No		
	Composite In (AV) (Side/Rear)		1/0		
	Ethernet (LAN) (Side/Rear)		0/1		
	Headphone (Side/Rear)		0/1		
	Headphone ID (Side/Rear)		0/1		
	Digital Audio Out (Optical) (Side/Rear)		No		
	Audio Out (Mini Jack) (Side/Rear)		No		
	PC In (D-sub) (Side/Rear)		0/1		
	PC/DVI Audio In (Mini Jack) (Side/Rear)		0/1		
	RF In (Terrestrial/Cable input) (Side/Rear)		1/0		
	RF In (Satellite input) (Side/Rear)		1/0		
	RS232C		(Common Use for RJ12)		
	CI Slot (Side/Rear)		1		
	Variable Audio Out (Side/Rear)		0/1		
	Variable Audio Out Volume Control (Side/Rear)		0/1		
	RJ12 for External Control (Side/Rear)		0/1		
	RJP Jack (Remote Jack Pack) (Side/Rear)		0/1		

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System	DTV Tuner	DVB-T2/C/S2			
	Analog Tuner	Yes			
	DiSEqC	Yes			
Design	Front Color	Black			
	Stand Type	U Stand			
	Swivel (Left/Right)	N/A			
Dimension	Set Dimension with Stand (mm/in.)	908.6 x 579.1 x 204.5 35.7 x 22.79 x 8.0	1,033.3 x 639.2 x 208.8 40.6 x 25.1 x 8.2	1,224.8 x 747.5 x 267.7 48.2 x 29.4 x 10.5	1,362.1 x 838.1 x 267.7 53.6 x 32.7 x 10.5
	Set Dimension w/o Stand (mm/in.)	908.6 x 539.1 x 63.1 35.7 x 21.2 x 2.4	1,033.3 x 569.9 x 33.2 40.6 x 23.4 x 1.3	1,224.8 x 706.9 x 33.2 48.2 x 27.8 x 1.3	1,362.1 x 792.7 x 34.2 53.6 x 31.2 x 1.3
	Package Dimension (mm/in.)	985 x 600 x 148 38.7 x 23.6 x 5.8	1,140 x 668 x 140 44.8 x 26.2 x 5.5	1,340 x 800 x 152 52.7 x 31.4 x 5.9	1,487 x 881 x 169 58.5 x 34.6 x 6.6
Weight	Set Weight with Stand (kg/lb)	8.9 / 19.6	12.5 / 27.5	16.7 / 36.8	21.1 / 46.5
	Set Weight w/o Stand (kg/lb)	7.9 / 17.4	11.3 / 24.9	14.8 / 32.6	19.1 / 42.1
	Package Weight (kg/lb)	11.0 / 24.2	15.1 / 33.2	21.1 / 46.5	26.6 / 58.6
VESA	VESA Mount (mm/in.)	200 x 200 7.8 x 7.8	400 x 400 15.7 x 15.7		
	VESA Screw Size	M4	M8		
Power	Power Supply (V)	AC220-240V 50/60Hz	AC220-240V 50/60Hz	AC220-240V 50/60Hz	AC220-240V 50/60Hz
	Power Consumption (Rated) (Watts)	121	137	147	172
	Power Consumption (Stand-by) (Watts)	0.5			
	Power Consumption (IEC 62087 Edition 2) (Watts)	47	54	59	70
	Peak Luminance Ratio	76%	75%	72%	66%
	Yearly Power Consumption (EU standard,kWh)	65	75	82	97
Eco	Eco Label	Yes			
	Eco Mark	Yes			
	Eco Sensor	Yes			
	Energy Efficiency Class	A+		A++	
	Mercury Content (mg)	0.0mg			
	Lead Presence	Yes			

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	Remote Controller Model	TM1480 + TM1240			
	PureCare Remote (Seamless White Remote)	No			
	Battery (for Remote Control)	Yes			
	Mini Wall Mount Support	Yes			
Accessory	Vesa Wall Mount Support	Yes			
	Power Cable	Yes			
	Data Cable	Yes			
	Slim Gender Cable	Yes			
	Quick Install Guide	Yes			
	Stand Mount Kit	No			

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