Samsung HB67x Series

Attractive, affordable, high-performing displays designed for hospitality environments

1

Highlights

- Provide a premium viewing experience with slim, stylish LED displays for hospitality guests
- Streamline content management with Samsung LYNK™ Remote Enhanced Active Control for Hospitality (REACH) user interface (UI) and editing tool
- Cut costs and enhance security with Samsung LYNK™ Digital Rights Management (DRM) technology
- Enhance the guest experience and reduce costs with the built-in DVB-T2/C/S2 tuner *HB675(Europe) only*
- Help guests stay on time with the clock accessory supported by a backup power supply *Europe model only*
- Reduce operating expenses with energy-saving features

Address guest needs and staff requirements with consistent hospitality displays

Successful hoteliers know that travelers expect in-room entertainment similar to what they experience at home. However, hotel owners and managers must control costs when investing in new displays. Finding an affordable mid-range in-room display with superior performance and a slim design can be a challenge. Many displays on the market lack compatibility with standard system integrator (SI) solutions.

Samsung HB67x Series high-performing displays include many features hoteliers need, at a reasonable cost. The slim, streamlined design of these displays contributes to a pleasant room ambiance and superior viewing experi- ence. The displays include content tools to simplify content management by hotel staff. In addition, the displays help reduce costs with enhanced technology and energy-saving features. Guests can stay on schedule with the help of the clock accessory and access myriad entertainment options.

Create an enhanced in-room entertainment environment

High-quality displays in guest rooms can contribute to an enjoyable hotel stay. With the elegant design of Samsung HB67x Series slim displays, hoteliers can elevate guests' viewing experience. Light and unobtrusive, the displays feature a narrow 12 mm (0.47 in.) bezel, providing more viewing area. The displays are also slim, at just 49 mm (1.93 in.) thick. Such details bring hotel guests a richer viewing experience and improve the hotel brand.

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Offer an enriching hotel guest experience with a wide range of entertainment options.

Simplify information updates with intuitive tools

LYNK™ REACH is a specialized solution for hospitality environments that provides a simplified UI and editing tool. This tool organizes and displays content such as hotel information, images, logos and Electric Program Guides (EPGs) using a radio frequency (RF) infrastructure.

The REACH server provides a straightforward way to manage several hundred hospitality displays remotely. This system helps reduce labor costs associated with updating each display individually. The technology also helps reduce total cost of ownership (TCO) because no set-top box (STB) or Internet Protocol (IP) infrastructure is needed.

The REACH interface is designed to display content on in-room screens and provide PC-based content management for hotel personnel. In-room screen content includes hotel information and marketing messages for guests. The interface helps content managers readily edit and manage information. It includes an exclusive ticker function that enables hotels to display important marketing and advertising messages. These messages, along with weather and tourism information can be effectively delivered and updated, with supported interval settings.
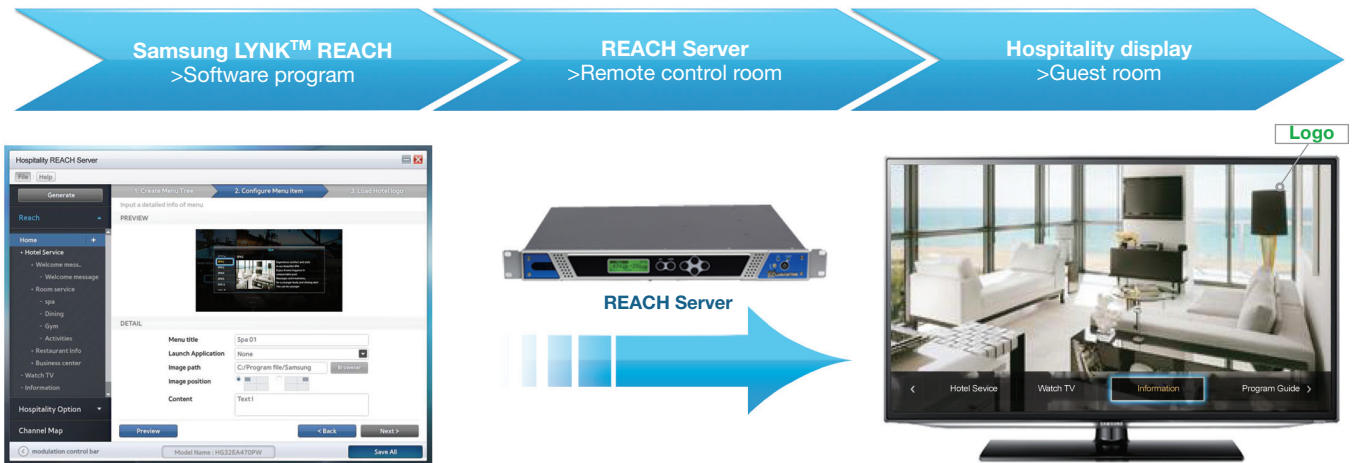

Figure 1. Property can easily customize and managing interface and contents with Samsung LYNK^{TM} REACH and REACH Server

Reduce costs and improve security with robust DRM technology

Samsung LYNK™ DRM technology provides hoteliers, facility managers and owners with a safeguarded and cost- effective alternative to traditional hardware-based content protection systems. This technology allows encrypted content to pass safely and to display on hospitality screens.

A software-only implementation, Samsung LYNK™ DRM technology provides quicker recovery for Conditional Access System (CAS) problems. Enhanced functions include a support video on demand (VoD) system. To help ensure reliability, the technology also supports additions to cable head-end equipment.

Provide guests with various channel selections

The built-in DVB-T2/C/S2 tuner is a quad tuner that delivers multiple channels directly to hospitality displays without the need for a head-end system. The displays also support multiple satellite inputs from Digital Satellite Equipment Control (DiSEqC). The tuner helps lower TCO by eliminating the need to purchase head-end devices for satellite and terrestrial channels. It also enhances the guest experience by allowing guests to enjoy a variable range of HD satellite, cable and terrestrial TV channels.

Offer accurate timekeeping without interruption using the clock accessory

The optional, attachable clock helps hoteliers provide the correct time to guests. The clock's backup power supply eliminates the need to reset the time if a power interruption occurs. The clock can run accurately without external power for up to 7 days.

Improve the bottom line with energy-efficient features

Samsung HB67x Series offers many features to help businesses save energy and reduce costs. The LED displays are cost-effective because they use less energy, emit less carbon dioxide (CO_2) 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.
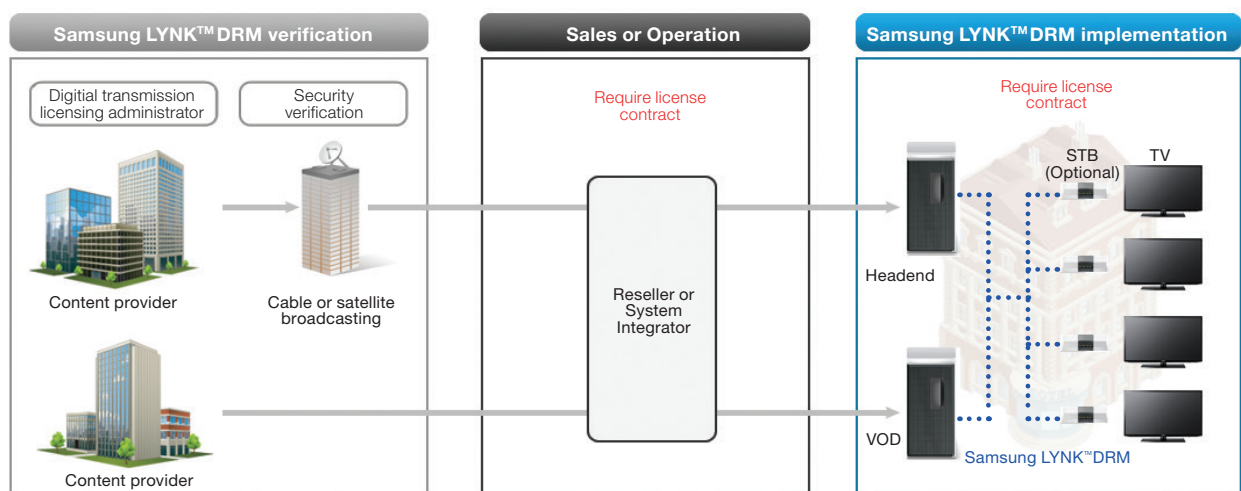

Figure 2. Samsung LYNK™ DRM provides powerful security functions with more flexibility.
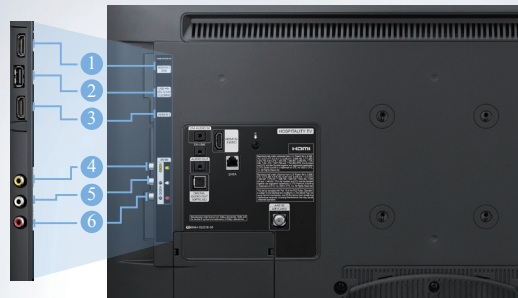
HB670

28"

• HG28NB670BF

Connectors

1. HDMI IN 2 (DVI)
2. USB
3. HDMI IN 1
4. AV IN (VIDEO)
5. AV IN (AUDIO-L)
6. AV IN (AUDIO-R)
7. DVI AUDIO IN
8. EX-LINK
9. AUDIO OUT
10. DATA
11. DIGITAL AUDIO OUT(OPTICAL)
12. HDMI IN 3 (ARC)
13. ANT IN(AIR/CABLE)

32"

• HG32NB670BF

40" / 46"

• HG40NB670FF
• HG46NB670FF

Connectors

1. HDMI IN 2 (DVI)
2. USB
3. HDMI IN 1
4. AV IN (VIDEO)
5. AV IN (AUDIO-L)
6. AV IN (AUDIO-R)
7. ANT IN (AIR/CABLE)
8. DVI AUDIO IN
9. EX-LINK
10. AUDIO OUT
11. DATA
12. DIGITAL AUDIO OUT(OPTICAL)
13. HDMI IN 3 (ARC)

DATA SHEET

DIRECT VIDEO ENTERTAINMENT™

HB673

28" / 32"

- HG28NB673BF
- HG32NB673BF

Connectors

1. HDMI IN 2 (DVI)

2. HDMI IN 1

3. USB

4. AV IN (VIDEO)

5. AV IN (AUDIO-L)

6. AV IN (AUDIO-R)

7. PILLOW OUT

8. DVI AUDIO IN

9. DATA

10. EX-LINK

11. DIGITAL AUDIO OUT(OPTICAL)

12. AUDIO OUT

13. HDMI IN 3 (ARC)

14. ANT IN(AIR/CABLE)

DATA SHEET

DIRECT VIDEO
ENTERTAINMENT ™
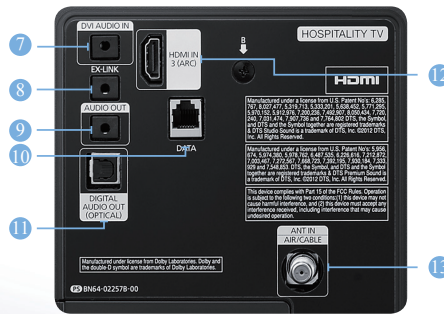
Samsung HB67x Series

HB677

28"

• HG28NB677BF

Connectors

1. HDMI IN 2 (DVI)
2. USB
3. HDMI IN 1
4. AV IN (VIDEO)
5. AV IN (AUDIO-L)
6. AV IN (AUDIO-R)
7. DVI AUDIO IN
8. EX-LINK
9. AUDIO OUT
10. DATA
11. DIGITAL AUDIO OUT(OPTICAL)
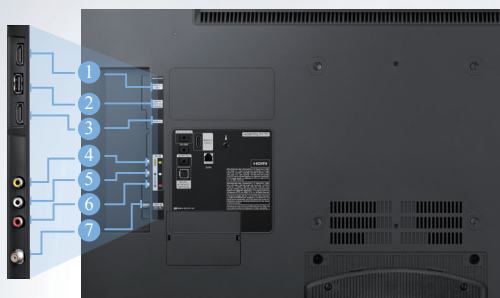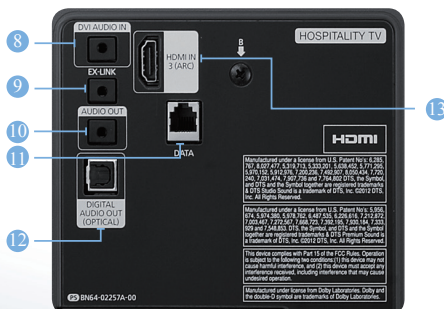12. HDMI IN 3 (ARC)
13. ANT IN(AIR/CABLE)

32"

• HG32NB677BF

40" / 46"

• HG40NB677FF
• HG46NB677FF

Connectors

1. HDMI IN 2 (DVI)
2. USB
3. HDMI IN 1
4. AV IN (VIDEO)
5. AV IN (AUDIO-L)
6. AV IN (AUDIO-R)
7. ANT IN (AIR/CABLE)
8. DVI AUDIO IN
9. EX-LINK
10. AUDIO OUT
11. DATA
12. DIGITAL AUDIO OUT(OPTICAL)
13. HDMI IN 3 (ARC)
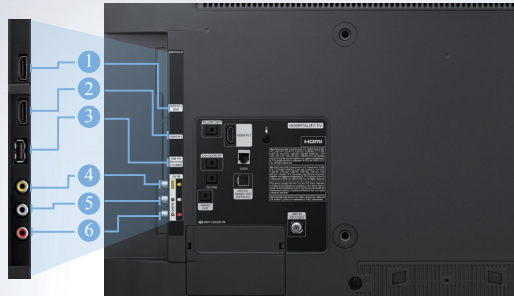
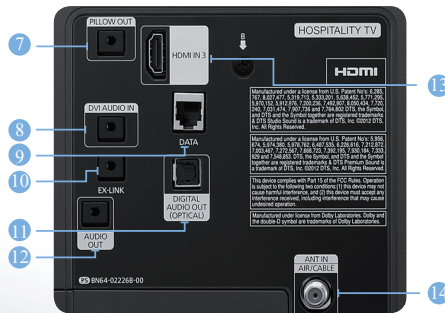DATA SHEET

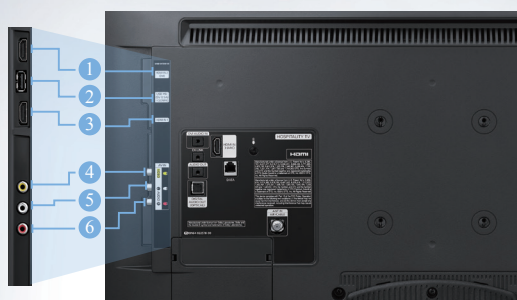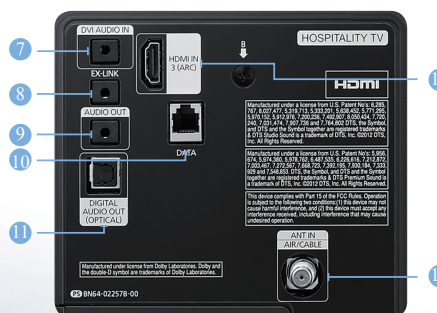DIRECT VIDEO ENTERTAINMENT™

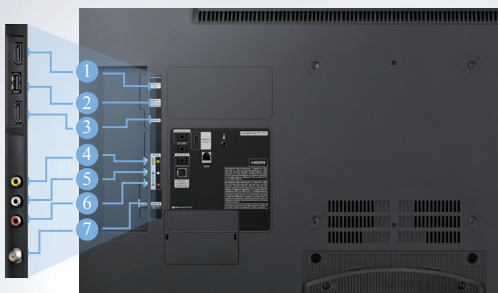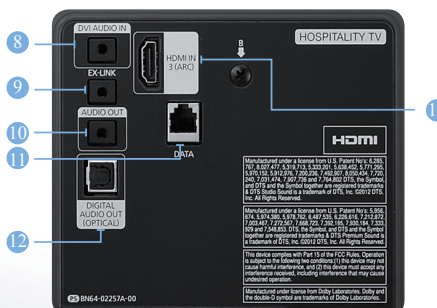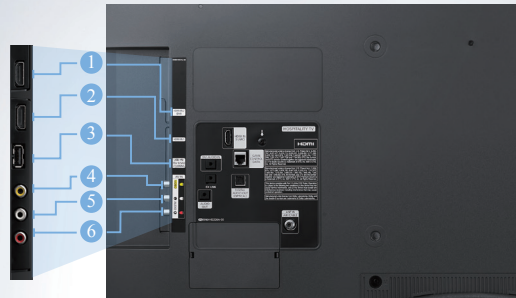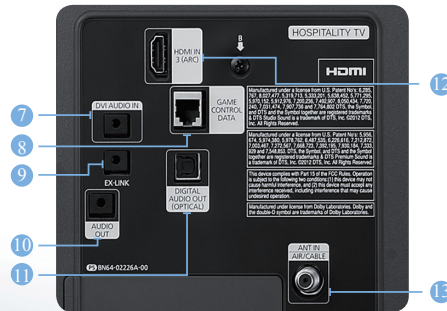# HB678

40" / 46"

- HG40NB678FF
- HG46NB678FF

Connectors

1. HDMI IN 2 (DVI)
2. HDMI IN 1
3. USB
4. AV IN (VIDEO)
5. AV IN (AUDIO-L)
6. AV IN (AUDIO-R)
7. DVI AUDIO IN
8. GAME CONTROL DATA
9. EX-LINK
10. AUDIO OUT
11. DIGITAL AUDIO OUT(OPTICAL)
12. HDMI IN 3 (ARC)
13. ANT IN(AIR/CABLE)

DATA SHEET

DIRECT VIDEO ENTERTAINMENT ™

Samsung HB67x Series

Specifications

Basic Info	North America	HB670				HB673	
	Model Name	HG28NB670BF	HG32NB670BF	HG40NB670FF	HG46NB670FF	HG28NB673BF	HG32NB673BF
Display	Backlight	LED					
	Inch	28	32	40	46	28	32
	HD/FHD	HD	HD	FHD	FHD	HD	HD
	Resolution	1366 x 768	1366 x 768	1920 x 1080	1920 x 1080	1366 x 768	1366 x 768
Video	Picture Engine	HyperReal Engine					
	Dynamic Contrast Ratio	Mega Contrast					
	Static Contrast Ratio	3000 :1	5000 :1	5000:1	5000:1	3000 :1	5000 :1
	Response Time	6.5ms	6.0ms	8.0ms	8.0ms	6.5ms	6.0ms
	Viewing angle (H/V)	178/178					
	Brightness	300 nits	300 nits	350 nits	300 nits	300 nits	300 nits
	Wide Color Enhancer Plus	Yes					
	Film Mode	Yes					
Audio	Dolby	Dolby Digital Plus / Dolby Pulse					
	SRS / DNSe+	SRS TheaterSound					
	dts 2.0 + Digital Out	DTS 2.0 + Digital Out					
	Speaker Type	Down Firing + Full Range					
	Sound Output (RMS)	5W x 2	10W x 2	10W x 2	10W x 2	5W x 2	10Wx2
	Variable Speaker Output	-					
Feature	ConnectShare™ (USB2.0)	Movie					
	OSD Language	English, Spanish, French					
	Digital Noise Filter	Yes					
	HDMI 1.4 A / Return Ch. Support (ARC)	Yes	Yes	Yes	Yes	No	No
	Anynet+ (HDMI-CEC)	Yes	Yes	Yes	Yes	No	No
	Auto Channel Search	Yes					
	Auto Power Off	Yes					
	Auto Volume Leveler	Yes					
	Caption (Subtitle)	Yes					
	Wake-up Timer	Yes					
	Game Mode	Yes					
	Picture-In-Picture	Yes					
	Sleep Timer	Yes					
Hospitality Feature	Pro:Idiom	No	No	No	No	Yes	Yes
	Hospitality Plug&Play (Easy Set-up)	Yes					
	Music Mode (Imput : PC/AV/Component)	Yes(AV only)					
	Music Mode BackLight on/off	Yes					
	RJ 12 / IR Pass Through	Yes					
	Power on Status Setting (Keycard/Master power off)	Yes					
	Jack Pack Compatiblity (HD media hub)	Yes					
	USB Cloning	Yes					
	Hotel Channel List	Yes					
	Hotel Logo Display with Time out setting (BMP)	Yes					
	Hotel Logo Display (Movie file)	Yes					
	Welcome message	Yes					
	Auto Source mode	Yes					
	Energy saving mode (BLU control)	Yes					
	Multi code remote control	Yes					

DIRECT VIDEO ENTERTAINMENT™

Specifications

Basic Info	North America	HB670				HB673	
Basic Info	Model Name	HG28NB670BF	HG32NB670BF	HG40NB670FF	HG46NB670FF	HG28NB673BF	HG32NB673BF
Hospitality Feature	Screwed Remote battery cover	Yes					
	Alarm Key	Yes					
	Pillow Speaker compatibility	No	No	No	No	Yes	Yes
	Samsung LYNK™ REACH	Yes					
	Smoovie Compatibility	Yes					
	Samsung LYNK™ REACH Server Compatibility	Yes					
	Sound bar compatibility	Yes					
	Samsung LYNK™ DRM	Yes					
Input & Output	HDMI (Side/Rear)	2/1					
	USB (Side/Rear)	1/0					
	Composite In (AV) (Side/Rear)	1/0					
	Digital Audio Out (Optical) (Side/Rear)	0/1					
	Audio Out (Mini Jack) (Side/Rear)	0/1					
	DVI Audio In (Mini Jack) (Side/Rear)	0/1					
	RF In (Terrestrial/Cable input) (Side/Rear)	0/1	1/0	1/0	1/0	0/1	0/1
	RS232C (AV CONTROL) (Side/Rear)	1 (Common Use for RJP)					
	Pillow Speaker Jack	No	No	No	No	Yes	Yes
	RJ12	Yes					
	RJP(For Remote Jackpack)	Yes					
System	DTV Tuner	ATSC / Clear QAM					
	Analog Tuner	Yes					
Design	Front Color	Black	Black	Black Deco	Black Deco	Black	Black
	Stand Type	Square	Square	Square	Square	-	-
	Swivel (Left/Right)	No	90/90	90/90	90/90	-	-
Dimension (WxHxD)	Set Size with Stand (mm)	645.0*444.5*180.7	737.9*504.9*191.7	928.2*610.1*227.7	1059.6*684.0*227.7	-	-
	Set Size without Stand (mm)	645.0*384.9*49.5	737.9*435.8*49.5	928.2*552.3*49.4	1059.6*626.2*49.4	645.0*384.9*49.5	737.9*435.8*49.5
	Set Weight with Stand (kg)	4.9	6.7	10.9	13.7	-	-
	Set Weight without Stand (kg)	4.2	5.2	8.0	10.8	4.2	5.2
Vesa	Dimensions (mm)	100*100	200*200	200*200	400*400	100*100	200*200
	Screw Size	M4	M8	M8	M8	M4	M8
Power	Power Supply (V)	AC110-120V 50/60Hz					
	Multi Voltage	AC110-220V					
	Power Consumption (Rated) (Watts)	50W	66W	116W	120W	50W	68W
	Power Consumption (Stand-by) (Watts)	Under 0.3W	Under 0.3W	Under 0.3W	Under 0.3W	Under 1.0W	Under 1.0W
	Power Consumption (Typical) (Watts)	26W	34W	46W	45W	27W	35W
Eco	Eco Mark	Energy Star v6.0					
	Eco Sensor	No	No	Yes	Yes	No	No
Accessory	Remote Controller Model	TM1240				-	-
	Battery (for Remote Control)	Yes	Yes	Yes	Yes	-	-
	Mini Wall Mount Support	No	Yes	Yes	Yes	No	Yes
	Vesa Wall Mount Support	Yes					
	Power Cable	Yes					
	Quick Install Guide	Yes					
	Data Cable	Yes					
	Security Screws	Yes	Yes	Yes	Yes	No	No
	Stand Mount Kit	Yes	Yes	Yes	Yes	No	No

DIRECT VIDEO ENTERTAINMENT™

Samsung HB67x Series

Specifications

		North America	HB677				HB678	
Basic Info	Model Name		HG28NB677BF	HG32NB677BF	HG40NB677FF	HG46NB677FF	HG40NB678FF	HG46NB678FF
Display	Backlight		LED					
	Inch		28	32	40	46	40	46
	HD/FHD		HD	HD	FHD	FHD	FHD	FHD
	Resolution		1366 x 768	1366 x 768	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Video	Picture Engine		HyperReal Engine					
	Dynamic Contrast Ratio		Mega Contrast					
	Static Contrast Ratio		3000 :1	5000 :1	5000:1	5000:1	5000:1	5000:1
	Response Time		6.5ms	6.0ms	8.0ms	8.0ms	8.0ms	8.0ms
	Viewing angle (H/V)		178/178					
	Brightness		300 nits	300 nits	350 nits	300 nits	350 nits	300 nits
	Wide Color Enhancer Plus		Yes					
	Film Mode		Yes					
Audio	Dolby		Dolby Digital Plus / Dolby Pulse					
	SRS / DNSe+		SRS TheaterSound					
	dts 2.0 + Digital Out		DTS 2.0 + Digital Out					
	Speaker Type		Down Firing + Full Range					
	Sound Output (RMS)		5W x 2	10Wx2	10Wx2	10Wx2	10Wx2	10Wx2
Feature	ConnectShare™ (USB2.0)		Movie					
	OSD Language		English, Spanish, French					
	Digital Noise Filter		Yes					
	HDMI 1.4 A / Return Ch. Support (ARC)		Yes					
	Anynet+ (HDMI-CEC)		Yes					
	Auto Channel Search		Yes					
	Auto Power Off		Yes					
	Auto Volume Leveler		Yes					
	Caption / Wake-up Timer		Yes					
	Game Mode / Sleep Timer		Yes					
	Picture-In-Picture		Yes					
Hospitality Feature	Pro:Idiom		Yes					
	bLAN		No	No	No	No	Yes	Yes
	Hospitality Plug&Play (Easy Set-up)		Yes	Yes	Yes	Yes	No	No
	Music Mode (Imput : PC/AV/Component)		Yes(AV only)					
	Music Mode BackLight on/off		Yes					
	RJ 12 / IR Pass Through		Yes					
	Power on Status Setting (Keycard/Master power off)		Yes	Yes	Yes	Yes	No	No
	Jack Pack Compatiblity (HD media hub)		Yes					
	USB Cloning / Hotel Channel List		Yes					
	Hotel Logo Display with Time out setting (BMP)		Yes					
	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					

DIRECT VIDEO ENTERTAINMENT™

Samsung HB67x Series

Specifications

	North America	HB677				HB678	
Basic Info	Model Name	HG28NB677BF	HG32NB677BF	HG40NB677FF	HG46NB677FF	HG40NB678FF	HG46NB678FF
Hospitality Feature	Alarm Key	Yes					
	Samsung LYNK™ REACH	Yes					
	Smoovie Compatibility	Yes					
	Samsung LYNK™ REACH Server Compatibility	Yes					
	Sound bar compatibility	Yes					
	Samsung LYNK™ DRM	Yes					
Input & Output	HDMI (Side/Rear)	2/1					
	USB (Side/Rear)	1/0					
	Composite In (AV) (Side/Rear)	1/0					
	Digital Audio Out (Optical) (Side/Rear)	0/1					
	Audio Out (Mini Jack) (Side/Rear)	0/1					
	DVI Audio In (Mini Jack) (Side/Rear)	0/1					
	RF In (Terrestrial/Cable input) (Side/Rear)	0/1	1/0	1/0	1/0	0/1	0/1
	RS232C (AV CONTROL) (Side/Rear)	1 (Common Use for RJP)					
	RJ12	Yes					
	RJP(For Remote Jackpack)	Yes					
System	DTV Tuner	ATSC / Clear QAM					
	Analog Tuner	Yes					
Design	Front Color	Black	Black	Black Deco	Black Deco	Black Deco	Black Deco
	Stand Type	Square					
	Swivel (Left/Right)	No	90/90	90/90	90/90	90/90	90/90
Dimension (WxHxD)	Set Size with Stand (mm)	645.0*444.5*180.7	737.9*504.9*191.7	928.2*610.1*227.7	1059.6*684.0*227.7	928.2*610.1*227.7	1059.6*684.0*227.7
	Set Size without Stand (mm)	645.0*384.9*49.5	737.9*435.8*49.5	928.2*552.3*49.4	1059.6*626.2*49.4	928.2*552.3*49.4	1059.6*626.2*49.4
	Set Weight with Stand (kg)	4.9	6.7	10.9	13.7	10.9	13.7
	Set Weight without Stand (kg)	4.2	5.2	8.0	10.8	8.0	10.8
Vesa	Dimensions (mm)	100*100	200*200	200*200	400*400	200*200	400*400
	Screw Size	M4	M8	M8	M8	M8	M8
Power	Power Supply (V)	AC110-120V 50/60Hz					
	Multi Voltage	AC110-220V					
	Power Consumption (Rated) (Watts)	50W	66W	116W	120W	116W	120W
	Power Consumption (Stand-by) (Watts)	Under 0.3W	Under 0.3W	Under 0.3W	Under 0.3W	Under 1.0W	Under 1.0W
	Power Consumption (Typical) (Watts)	26W	34W	46W	45W	48W	47W
Eco	Eco Mark	Energy Star v6.0					
	Eco Sensor	No	No	Yes	Yes	Yes	Yes
Accessory	Remote Controller Model	TM1240					
	Battery (for Remote Control)	Yes					
	Mini Wall Mount Support	No	Yes	Yes	Yes	Yes	Yes
	Vesa Wall Mount Support	Yes					
	Power Cable / Security Screws	Yes					
	Quick Install Guide	Yes					
	Data Cable	Yes	Yes	Yes	Yes	No	No
	Stand Mount Kit	Yes					

DIRECT VIDEO ENTERTAINMENT™

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 227,000 people in 197 offices across 75 countries, the company operates three separate organizations to coordinate its 10 indepen- dent business units: Consumer Electronics (CE), compris- ing Visual Display, Home Appliances, Printing Solution, and Health and Medical Equipment; Information Technology and Mobile Communications (IM), including Mobile Communications, Network, and Digital Imaging; and Device Solutions (DS), consisting of Memory, System LSI, and LED. Recognized for its industry-leading performance across a range of economic, environmental and social cri-teria, Samsung Electronics was named the world's most sustainable technology company in the 2011 Dow Jones Sustainability Index. For more information,
please visit

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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