



# Samsung Hospitality Display with Manageability - HE690

Deliver Premium Interactive Guest Services through Samsung HE690 Hospitality Displays

- Slim, stylish design adds ambience to the hotel room while maintaining guests' focus on on-screen content
- Simplified management of hundreds of in-room displays through the LYNKREACH 4.0 solution's centralized server
- Expanded connectivity and program access through a connected Ethernet bridge and Bluetooth music player
- Display and enjoy content from compatible personal devices through wireless content sharing

Basic Feature		Hospitality Solution			Convenience Feature		Security		Clock Option	
Screen Size	Resolution	Home Menu	LYNK™ REACH 4.0	LYNK™ HMS	Multi-code remote control	Improve Plug and Play	LYNK™ DRM	Security Mode	External Clock Compatibility	Software Clock

Others:  
1,920x1,080

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## Specifications

### HGÄ



### Connectors

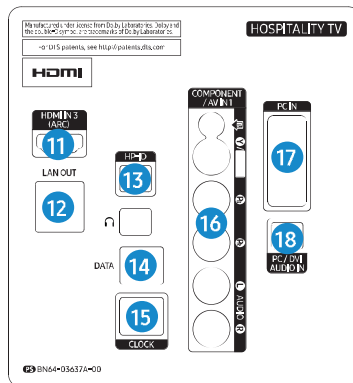


1. TBD

### HGÄÄ HÄÄ JÄÄ Í KÈ



### Connectors



1. VARIABLE AUDIO OUT
2. VOL-CTRL
3. USB(5V0.5A)
4. USB(HDD1.0A)/CLONING
5. HDMI IN2
6. HDMI IN1(DVI)
7. LAN
8. RJP
9. DIGITAL AUDIO OUT(OPTICAL)
10. ANT IN(SATELLITE,AIR/CABLE)
11. HDMI IN3(ARC)
12. LAN OUT
13. HP-ID
14. DATA
15. CLOCK
16. COMPONENT/AV IN1
17. PCIN
18. PC/DVI AUDIO IN

		24EE690 HG24EE690AB	28EE690 HG28EE690AB	32EE690 HG32EE690DB
Display	Backlight	LED	LED	LED
	Inch	24	28	32
	Resolution	1,366 x 768	1,366 x 768	1920 x 1080
Video	Picture Engine	HyperReal	HyperReal	HyperReal
	Dynamic Contrast Ratio	Mega Contrast	Mega Contrast	Mega Contrast
	Micro Dimming	N/A	N/A	N/A
	Active Crystal Color	N/A	N/A	N/A
	Wide Color Enhancer (Plus)	Yes	Yes	Yes
	Auto Motion Plus	N/A	N/A	N/A
	Film Mode	Yes	Yes	Yes
	Audio	Dolby Digital Plus	Yes	Yes
Virtual Surround		Yes	Yes	Yes
DTS Codec		Yes	Yes	Yes
Sound Output (RMS)		10W(L:5W, R:5W)	10W(L:5W, R:5W)	20W(L:10W, R:10W)
Speaker Type		2CH(Down Firing w/Bass Reflex)	2CH(Down Firing w/Bass Reflex)	2CH(Down Firing w/Bass Reflex)
Wallmount Sound Mode		Yes	Yes	Yes
TV SoundConnect		N/A	N/A	Yes
BT Headset Support		N/A	N/A	Yes
SMART TV	Smart TV Type	Smart	Smart	Smart
	Apps Panel	Yes	Yes	Yes
	Web Browser	Yes	Yes	Yes
VESA Standard	VESA Mount (mm)	75x75	100x100	100x100
	VESA Screw Size	M4	M4	M4
Smart Interaction	Voice Control	N/A	N/A	Yes
Convergence	TV to Mobile - Mirroring	N/A	N/A	N/A
	Mobile to TV - Mirroring, DLNA	Yes	Yes	Yes
	Samsung SMART View	Yes	Yes	Yes
Differentiation	Sports Mode	Yes	Yes	Yes
	All Care Protection	N/A	N/A	N/A
Feature	Samsung 3D	N/A	N/A	N/A
	Processor	Quad Core	Quad Core	Quad Core
	Accessibility	Enlarge/ High contrast	Enlarge/ High contrast	Enlarge/ High contrast
	Digital Clean View	Yes	Yes	Yes
	Auto Channel Search	Yes	Yes	Yes
	Auto Power Off	Yes	Yes	Yes
	BD Wise Plus	N/A	N/A	N/A
	Caption (Subtitle)	Yes	Yes	Yes
	ConnectShare™ (HDD)	Yes	Yes	Yes
	ConnectShare™ (USB 2.0)	Yes	Yes	Yes
	EPG	Yes	Yes	Yes
	Game Mode	Yes	Yes	Yes
	OSD Language	27 European Languages	27 European Languages	27 European Languages
	Picture-In-Picture	Yes	Yes	Yes
	BT HID Support	N/A	N/A	Yes
	USB HID Support	Yes	Yes	Yes
	Teletext (TTX)	Yes	Yes	Yes

	24EE690 HG24EE690AB	28EE690 HG28EE690AB	32EE690 HG32EE690DB
Samsung LYNK™ SINC Compatibility	Yes	Yes	Yes
Samsung LYNK™ HMS Compatibility	N/A	N/A	Yes
H.Browser	Yes	Yes	Yes
Samsung LYNK™ REACH (IP)	REACH4.0	REACH4.0	REACH4.0
Samsung LYNK™ REACH (RF)	REACH4.0	REACH4.0	REACH4.0
Samsung LYNK™ REACH RF Modulator Compatibility	Yes	Yes	Yes
Hospitality Home Menu	Home Menu 2015	Home Menu 2015	Home Menu 2015
Bluetooth Music Player (Mobile → TV)	N/A	N/A	Yes
Hospitality Plug&Play(Easy Setup)	Yes	Yes	Yes
Auto Source Mode	Yes	Yes	Yes
Power On Mode	Yes	Yes	Yes
Hotel Channel List	Yes	Yes	Yes
Channel Menu Display	Yes	Yes	Yes
Mixed Channel List (ATSC, DVB-T/T2/C/S2, Analog)	Yes	Yes	Yes
My Channel	Yes	Yes	Yes
Energy Saving Mode (BLU control)	Yes	Yes	Yes
Logo Display with Timer Out Setting (BMP/Movie)	Yes	Yes	Yes
Welcome Message	Yes	Yes	Yes
RJ12/IR pass through	Yes	Yes	Yes
External Clock Compatibility	N/A	Yes	Yes
Clock Back Up Supply	Yes	Yes	Yes
External Clock Dimming Control	N/A	Yes	Yes
Software Clock	Yes	Yes	Yes
Multi Code Remote control	Yes	Yes	Yes
Screwed Battery Cover	Yes	Yes	Yes
Sound Bar Compatibility	Yes	Yes	Yes
Music Mode (Input: PC/AV/Component/HDMI)	Yes	Yes	Yes
Music Mode Backlight on/off	Yes	Yes	Yes
TTX Clock Update (Analogue)	Yes	Yes	Yes
USB Cloning	Yes	Yes	Yes
Smovie Compatibility	Yes	Yes	Yes
Soft AP	Yes	Yes	Yes
On/Off Timer (Schedule)	Yes	Yes	Yes
Wake-up Timer (Alarm)	Yes	Yes	Yes
Samsung LYNK™ DRM	Yes	Yes	Yes
Pro:Idiom	N/A	N/A	N/A
bLAN	N/A	N/A	N/A
Security Mode	Yes	Yes	Yes
S/W EPG (Solution EPG)	Yes	Yes	Yes
Wake on LAN (WOL)	Yes	Yes	Yes
IPOver Coax	N/A	N/A	N/A

Hospitality  
Feature

	24EE690 HG24EE690AB	28EE690 HG28EE690AB	32EE690 HG32EE690DB	
System	Digital Broadcasting	DVB-T2/C/S2	DVB-T2/C/S2	
	Analog Tuner	Yes	Yes	
	CI (Common Interface)	CI+(1.3)	CI+(1.3)	
	Data Broadcasting	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)
Input & Output	HDMI	0/2	1/2	2/1
	USB	1/0	2/0	2/0
	Component In (Y/Pb/Pr)	N/A	N/A	0/1
	Composite In (AV)	N/A	1/0	0/1(Common Use for Component Y)
	Ethernet (LAN)	1/0	1/0	1/0
	Headphone	0/1	0/1	0/1
	Audio Out (Mini Jack / LR)	N/A	N/A	N/A
	Digital Audio Out (Optical)	0/1	0/1	1/0
	RF In(Terrestrial / Cable input / Satellite Input)	0/1	1/0	1/0
	Ex-Link ( RS-232C )	N/A	N/A	N/A
	CI Slot	1/0	0/1	0/1
	Scart	N/A	N/A	N/A
	HDMI A / Return Ch.Support	Yes	Yes	Yes
	Wireless LAN Built-in	Yes	Yes	Yes
	Anynet+ (HDMI-CEC)	Yes	Yes	Yes
	Pillow Speaker Jack	N/A	N/A	N/A
	Variable Audio Out	N/A	0/1	1/0
	Variable Audio Out Volume Control	N/A	0/1	1/0
	Video Out	N/A	N/A	N/A
	RJ12	0/1	0/1	0/1
	RJP(For Remote Jackpack)	0/1	0/1	1/0
	Headphone ID	0/1	0/1	0/1
	Door-Eye Control	N/A	N/A	N/A
	Door-Eye Video In	N/A	N/A	N/A
	PC In (D-sub)	0/1	0/1	0/1
	PC/DVI Audio In (Mini Jack)	0/1	0/1	0/1
	Ethernet Bridge (LAN-Out)	N/A	N/A	0/1

		24EE690 HG24EE690AB	28EE690 HG28EE690AB	32EE690 HG32EE690DB
Design	Front Color	Black	Black	Dark Titan
	Stand Type	Square	Square	Square
	Swivel (Left/Right)	N/A	N/A	90/90
Dimension	Set Size without Stand - Wall Mount Side (WxHxD)(mm)	561.8x349.1x49.1	643.4 x 396.5 x 49.1	730.4 x 433.8 x 40.3
	Set Size without Stand - Speaker Side (WxHxD)(mm)	561.8x349.1x66.6	643.4 x 396.5 x 62.9	730.4 x 433.8 x 54.6
	Set Size with Stand (WxHxD)(mm)	561.8x383.5x163.7	643.4 x 435.0 x 163.4	730.4 x 482.8 x 192.6
	Package Size (WxHxD)(mm)	743 x 407 x 114	815 x 463 x 108	913 x 534 x 113
Weight	Set Weight without Stand (kg)	4	3.8	5.5
	Set Weight with Stand (kg)	4.2	4.2	7.1
	Package Weight (kg)	5.4	5.4	8.8
Accessory	Remote Controller Model	TM1240A	TM1240A	TM1240A
	Batteries (for Remote Control)	Yes	Yes	Yes
	Samsung Smart Control (Included)	N/A	N/A	N/A
	Ultra Slim Wall Mount Support	N/A	N/A	N/A
	Mini Wall Mount Support	N/A	N/A	N/A
	VESA Wall Mount Support	Yes	Yes	Yes
	Power Cable	Yes	Yes	Yes
	Quick Install Guide	Yes	Yes	Yes
	Data Cable	Yes	Yes	Yes
	Stand Mount Kit	N/A	N/A	Yes
	Security Screws	N/A	N/A	N/A
Angle Adaptor (for Side RF tuner)	N/A	Yes	N/A	

		40EE690 HG40EE690DB	49EE690 HG49EE690DB	55EE690 HG55EE690DB
Display	Backlight	LED	LED	LED
	Inch	40	49	55
	Resolution	1920x1080	1920x1080	1920x1080
Video	Picture Engine	HyperReal	HyperReal	HyperReal
	Dynamic Contrast Ratio	MegaContrast	Mega Contrast	Mega Contrast
	Micro Dimming	N/A	N/A	N/A
	Active Crystal Color	N/A	N/A	N/A
	Wide Color Enhancer (Plus)	Yes	Yes	Yes
	Auto Motion Plus	N/A	N/A	N/A
	Film Mode	Yes	Yes	Yes
	Dolby Digital Plus	Yes	Yes	Yes
Audio	Virtual Surround	Yes	Yes	Yes
	DTS Codec	Yes	Yes	Yes
	Sound Output (RMS)	20W(L:10W, R:10W)	20W(L:10W, R:10W)	20W(L:10W, R:10W)
	Speaker Type	2CH(Down Firing w/Bass Reflex)	2CH(Down Firing w/Bass Reflex)	2CH(Down Firing w/Bass Reflex)
	Wallmount Sound Mode	Yes	Yes	Yes
	TV SoundConnect	Yes	Yes	Yes
	BT Headset Support	Yes	Yes	Yes
	Smart TV Type	Smart	Smart	Smart
SMART TV	Apps Panel	Yes	Yes	Yes
	Web Browser	Yes	Yes	Yes
	VESA Standard	VESA Mount (mm)	200x200	200x200
	VESA Screw Size	M8	M8	M8
Smart Interaction	Voice Control	Yes	Yes	Yes
Convergence	TV to Mobile - Mirroring	N/A	N/A	N/A
	Mobile to TV - Mirroring, DLNA	Yes	Yes	Yes
	Samsung SMART View	Yes	Yes	Yes
Differentiation	Sports Mode	Yes	Yes	Yes
	All Care Protection	N/A	N/A	N/A
Feature	Samsung 3D	N/A	N/A	N/A
	Processor	Quad Core	Quad Core	Quad Core
	Accessibility	Enlarge/ High contrast	Enlarge/ High contrast	Enlarge/ High contrast
	Digital Clean View	Yes	Yes	Yes
	Auto Channel Search	Yes	Yes	Yes
	Auto Power Off	Yes	Yes	Yes
	BD Wise Plus	N/A	N/A	N/A
	Caption (Subtitle)	Yes	Yes	Yes
	ConnectShare™ (HDD)	Yes	Yes	Yes
	ConnectShare™ (USB 2.0)	Yes	Yes	Yes
	EPG	Yes	Yes	Yes
	Game Mode	Yes	Yes	Yes
	OSD Language	27 European Languages	27 European Languages	27 European Languages
	Picture-in-Picture	Yes	Yes	Yes
	BT HID Support	Yes	Yes	Yes
	USB HID Support	Yes	Yes	Yes
	Teletext (TTX)	Yes	Yes	Yes

	40EE690 HG40EE690DB	49EE690 HG49EE690DB	55EE690 HG55EE690DB
Samsung LYNK™ SINC Compatibility	Yes	Yes	Yes
Samsung LYNK™ HMS Compatibility	Yes	Yes	Yes
H.Browser	Yes	Yes	Yes
Samsung LYNK™ REACH (IP)	REACH4.0	REACH4.0	REACH4.0
Samsung LYNK™ REACH (RF)	REACH4.0	REACH4.0	REACH4.0
Samsung LYNK™ REACH RF Modulator Compatibility	Yes	Yes	Yes
Hospitality Home Menu	Home Menu 2015	Home Menu 2015	Home Menu 2015
Bluetooth Music Player (Mobile → TV)	Yes	Yes	Yes
Hospitality Plug&Play(Easy Setup)	Yes	Yes	Yes
Auto Source Mode	Yes	Yes	Yes
Power On Mode	Yes	Yes	Yes
Hotel Channel List	Yes	Yes	Yes
Channel Menu Display	Yes	Yes	Yes
Mixed Channel List (ATSC, DVB-T/T2/C/S2, Analog)	Yes	Yes	Yes
My Channel	Yes	Yes	Yes
Energy Saving Mode (BLU control)	Yes	Yes	Yes
Logo Display with Timer Out Setting (BMP/Movie)	Yes	Yes	Yes
Welcome Message	Yes	Yes	Yes
RJ12/IR pass through	Yes	Yes	Yes
External Clock Compatibility	Yes	Yes	Yes
Clock Back Up Supply	Yes	Yes	Yes
External Clock Dimming Control	Yes	Yes	Yes
Software Clock	Yes	Yes	Yes
Multi Code Remote control	Yes	Yes	Yes
Screwed Battery Cover	Yes	Yes	Yes
Sound Bar Compatibility	Yes	Yes	Yes
Music Mode (Input: PC/AV/Component/HDMI)	Yes	Yes	Yes
Music Mode Backlight on/off	Yes	Yes	Yes
TTX Clock Update (Analogue)	Yes	Yes	Yes
USB Cloning	Yes	Yes	Yes
Smovie Compatibility	Yes	Yes	Yes
Soft AP	Yes	Yes	Yes
On/Off Timer (Schedule)	Yes	Yes	Yes
Wake-up Timer (Alarm)	Yes	Yes	Yes
Samsung LYNK™ DRM	Yes	Yes	Yes
Pro:Idiom	N/A	N/A	N/A
bLAN	N/A	N/A	N/A
Security Mode	Yes	Yes	Yes
S/W EPG (Solution EPG)	Yes	Yes	Yes
Wake on LAN (WOL)	Yes	Yes	Yes
IPOver Coax	N/A	N/A	N/A

Hospitality  
Feature



	40EE690 HG40EE690DB	49EE690 HG49EE690DB	55EE690 HG55EE690DB	
System	Digital Broadcasting	DVB-T2/C/S2	DVB-T2/C/S2	DVB-T2/C/S2
	Analog Tuner	Yes	Yes	Yes
	CI (Common Interface)	CI+(1.3)	CI+(1.3)	CI+(1.3)
	Data Broadcasting	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)	HbbTV(CZ,SK,PL,DE,AT,CH,- FR,PT,ES,BE,NL,LU,HU) MHEG 5 (GB,IS,UK)
Input & Output	HDMI	2/1	2/1	2/1
	USB	2/0	2/0	2/0
	Component In (Y/Pb/Pr)	0/1	0/1	0/1
	Composite In (AV)	0/1(Common Use for Component Y)	0/1(Common Use for Component Y)	0/1(Common Use for Component Y)
	Ethernet (LAN)	1/0	1/0	1/0
	Headphone	0/1	0/1	0/1
	Audio Out (Mini Jack / LR)	N/A	N/A	N/A
	Digital Audio Out (Optical)	1/0	1/0	1/0
	RF In(Terrestrial / Cable input / Satellite Input)	1/0	1/0	1/0
	Ex-Link ( RS-232C )	N/A	N/A	N/A
	CI Slot	0/1	0/1	0/1
	Scart	N/A	N/A	N/A
	HDMI A / Return Ch.Support	Yes	Yes	Yes
	Wireless LAN Built-in	Yes	Yes	Yes
	Anynet+ (HDMI-CEC)	Yes	Yes	Yes
	Pillow Speaker Jack	N/A	N/A	N/A
	Variable Audio Out	1/0	1/0	1/0
	Variable Audio Out Volume Control	1/0	1/0	1/0
	Video Out	N/A	N/A	N/A
	RJ12	0/1	0/1	0/1
	RJP(For Remote Jackpack)	1/0	1/0	1/0
	Headphone ID	0/1	0/1	0/1
	Door-Eye Control	N/A	N/A	N/A
	Door-Eye Video In	N/A	N/A	N/A
	PC In (D-sub)	0/1	0/1	0/1
	PC/DVI Audio In (Mini Jack)	0/1	0/1	0/1
	Ethernet Bridge (LAN-Out)	0/1	0/1	0/1

		40EE690 HG40EE690DB	49EE690 HG49EE690DB	55EE690 HG55EE690DB
Design	Front Color	Dark Titan	Dark Titan	Dark Titan
	Stand Type	Square	Square	Square
	Swivel (Left/Right)	90/90	90/90	90/90
Dimension	Set Size without Stand - Wall Mount Side (WxHxD)(mm)	917.6 x 539.2 x 40.2	1105.8 x 645.0 x 39.8	1241.6 x 721.4 x 40.0
	Set Size without Stand - Speaker Side (WxHxD)(mm)	917.6 x 539.2 x 54.2	1105.8 x 645.0 x 54.6	1241.6 x 721.4 x 54.5
	Set Size with Stand (WxHxD)(mm)	917.6 x 591.1 x 226.5	1105.8 x 697.0 x 226.5	1241.6 x 773.3 x 226.5
	Package Size (WxHxD)(mm)	1105 x 636 x 116	1290 x 746 x 130	1424 x 812 x 140
Weight	Set Weight without Stand (kg)	8.5	13.1	16
	Set Weight with Stand (kg)	11.4	16	18.9
	Package Weight (kg)	13.2	19.9	24.1
Accessory	Remote Controller Model	TM1240A	TM1240A	TM1240A
	Batteries (for Remote Control)	Yes	Yes	Yes
	Samsung Smart Control (Included)	N/A	N/A	N/A
	Ultra Slim Wall Mount Support	N/A	N/A	N/A
	Mini Wall Mount Support	N/A	N/A	N/A
	VESA Wall Mount Support	Yes	Yes	Yes
	Power Cable	Yes	Yes	Yes
	Quick Install Guide	Yes	Yes	Yes
	Data Cable	Yes	Yes	Yes
	Stand Mount Kit	Yes	Yes	Yes
	Security Screws	N/A	N/A	N/A
Angle Adaptor (for Side RF tuner)	N/A	N/A	N/A	