

Model number	Protocol	InP displays		CdSe displays								
		Samsung UN55JS9000F	Hisense LED55XT910X3DUC	TCL Q55H9700	Philips 55PUF6850/T3	Thomson 55UA9806	TCL Q65H9700	Hisense LED55K7100UC	TCL Q55H8800S	SONY XBR-55X900A	Philips 276E6	
Display Type		TV	TV	TV	TV	TV	TV	TV	TV	TV	TV	Monitor
Resolution		UHD	UHD	UHD	UHD	UHD	UHD	UHD	UHD	UHD	UHD	FHD
Lighting, product configuration		Edge lit, Film	Direct lit, Film	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic	Direct lit, Film	Edge lit, Optic	Edge lit, Optic
Dimensions		55" diagonal	55" diagonal	55" diagonal	55" diagonal	55" diagonal	65" diagonal	55" diagonal	55" diagonal	55" diagonal	55" diagonal	27" diagonal
%NTSC area (CIE 1931)	Display Industry standard protocol	91.7%	97.1%	107.6%	102.8%	107.3%	108.4%	100.0%	97.0%	101.7%	107.8%	
%Adobe Overlap (CIE 1931)	Display Industry standard protocol	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	99.80%
Full White Screen Peak Luminance (nits)	Display Industry standard protocol	515	520	462	408	435	433	417	447	388	414	
Full White Screen Avg. Power (watts) at Peak luminance	Display Industry standard protocol	210	190	213	121	212	169	138	171	231	40	
Full White Screen Efficacy at Peak Luminance (nits/W)	Display Industry standard protocol	2.45	2.74	2.17	3.38	2.05	2.57	3.03	2.62	1.68	10.38	
TV models with similar gamut but with a different technology (notch filter)		JS7000 series - 60", 55" and 50"										
		JS9000 series - 65", 48"										
		JS9100 series - 78"										
		JS9500 series - 88", 78", 65"										
		JS8600 series - 78"										
		JS8500 series - 65", 55", 48"										
Other TV models <u>may be</u> with InP film tech												

**Display Industry Protocol**

Color and luminance was measured using calibrated Konica Minolta CS-200. Color was measured for 100% RGB swatches generated by a SpectraCal VirtualForge v1.1.302 pattern generator with an AJA T-Tap HDMI output device for high quality output from a MacBook Pro. Luminance was measured for a 100% white swatch. SpectraCal CalMAN 5 was used to set the luminance of the WRGB patterns to 100%. The power source was an HP6811B AC Power Source/Power Analyzer that measures power consumption while sourcing power.

	Protocol	InP displays Samsung UN55JS9000F	Hisense LED55XT910X3DUC	Philips 55PUF6850/T3	CdSe displays Thomson 55UA9806	Hisense LED55K7100UC	Philips 276E6 Monitor
Model number		TV	TV	TV	TV	TV	Monitor
Display Type		UHD	UHD	UHD	UHD	UHD	FHD
Resolution		Edge lit, Film	Direct lit, Film	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic	Edge lit, Optic
Lighting, product configuration		55" diagonal	55" diagonal	55" diagonal	55" diagonal	55" diagonal	27" diagonal
Dimensions		91.8%	98.0%	102.8%	108.3%	100.0%	107.8%
%NTSC area (CIE 1931)		110.4%	113.7%	122.3%	122.2%	113.0%	119.3%
%NTSC area (CIE 1976)		N/A	N/A	N/A	N/A	N/A	99.8%
%Adobe Overlap (CIE 1931)		N/A	N/A	N/A	N/A	N/A	99.1%
%Adobe Overlap (CIE 1976)		553	477	394	463	380	423
Full White Screen Peak Luminance (nits)	IEC 62087-3:2015 Section 6.5.1.4	217	190	118	210	134	39
Full White Screen Avg. Power (watts) at Peak luminance	IEC 62087-3:2015 Section 6.5.1.4	2.55	2.51	3.34	2.20	2.84	10.85
Full White Screen Efficacy at Peak Luminance (nits/W)	Calculation	N/A	498	N/A	471	346	N/A
Retail Mode Peak Luminance	IEC 62087-3:2015 section 3.1.16	371.00	494	316	459	346	373
Home Mode Default Luminance	IEC 62087-3:2015 sections 3.1.6, 3.1.9	641.00	498	394	471	346	409
Home Mode Brightest Selectable Preset Luminance	IEC 62087-3:2015 section 3.1.2	641.00	498	394	471	346	409
Overall Brightest Preset Luminance	IEC 62087-3:2015 section 3.1.11	58%	99%	80%	97%	100%	91%
Peak Luminance Ratio	IEC 62087-3:2015 section 6.5.1.1	<div style="border: 1px solid black; padding: 5px;">                     Rows 19,20, 21 To be performed at a certified 3rd party lab. QD Vision is not equipped to make a key measurement (average power measured from a dynamic broadcast signal over a 10 minute time period)that will be used to calculate these metrics                 </div>					
Energy Efficiency Class (EEC)	OJEU L 314, Table 1						
Energy Efficiency Index (EEI)	OJEU L 314, Annex II						
Annual On-Mode Energy Consumption (E) [kWh]	Annex II L314						

TV models with similar gamut but with a different technology (notch filter)

JS7000 series - 60", 55" and 50"

JS9000 series - 65", 48"

JS9100 series - 78"

JS9500 series - 88", 78", 65"

JS8600 series - 78"

JS8500 series - 65",55",48"

Other TV models may be with InP film tech

**Full White Screen Peak Luminance (nits)**

	InP displays			CdSe displays		
Model number	Samsung UN55JS9000F	Hisense LED55XT910X3DUC	Philips 55PUF6850/T3	Thomson 55UA9806	Hisense LED55K7100UC	Philips 276E6
1 Display Industry standard protocol	515	520	408	435	417	414
2 IEC 62087-3:2015 Section 6.5.1.4	553	477	394	463	380	423

**Full White Screen Avg. Power (watts) at Peak luminance**

	Samsung UN55JS9000F	Hisense LED55XT910X3DUC	Philips 55PUF6850/T3	Thomson 55UA9806	Hisense LED55K7100UC	Philips 276E6
Model number						
1 Display Industry standard protocol	210.0	189.9	120.7	212.1	137.8	39.9
2 IEC 62087-3:2015 Section 6.5.1.4	217.0	190.0	118.0	210.0	134.0	39.0

**Full White Screen Efficacy at Peak Luminance (nits/W)**

	Samsung UN55JS9000F	Hisense LED55XT910X3DUC	Philips 55PUF6850/T3	Thomson 55UA9806	Hisense LED55K7100UC	Philips 276E6
Model number						
1 Display Industry standard protocol	2.45	2.74	3.38	2.05	3.03	10.38
2 IEC 62087-3:2015 Section 6.5.1.4	<b>2.55</b>	<b>2.51</b>	<b>3.34</b>	<b>2.20</b>	<b>2.84</b>	<b>10.85</b>

**Performance difference as measured with two different standards**

	-4%	8%	1%	-8%	6%	-5%
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**Display Industry Protocol**

Color and luminance was measured using calibrated Konica Minolta CS-200. Color was measured for 100% RGB swatches generated by a SpectraCal VirtualForge v1.1.302 pattern generator with an AJA T-Tap HDMI output device for high quality output from a MacBook Pro. Luminance was measured for a 100% white swatch. SpectraCal CalMAN 5 was used to set the luminance of the WRGB patterns to 100%. The power source was an HP6811B AC Power Source/Power Analyzer that measures power consumption while sourcing power.

**IEC 62087:2015 ed.1.0 protocol**

Full white screen peak luminance was measured with a static white 1080i, 50 Hz video signal from a IEC-62087-2:2015 calibration disc in a OPPO BDP-103 blu ray player. The power source was an HP6811B AC Power Source/Power Analyzer that measures power consumption while sourcing power.