

# iPhone X Display Comparative Analysis



Quality	View area	Brightness	Assembly thickness	Structure	Polarizer	Touch Panel	Reliability	Pros	Cons
Original New	5.85"	600cd/m <sup>2</sup>	7.75mm	Soft OLED+External touch+front glass	Samsung customized	44 channel	Stable	100% original	*High price source *Most are front glass changed *Few
Original assembly	5.85"	600cd/m <sup>2</sup>	7.75mm	Soft OLED+External touch+front glass	Samsung customized	32-34 channel	Unstable	*Original View Area color saturation *Polarized OK *Good	*Unstable system *Unstable OLED supply *High RMA rate
GX Soft OLED	5.85"	530cd/m <sup>2</sup> <±30cd/m <sup>2</sup> >	7.75mm	Soft OLED+External touch+front glass	Nitto	32-34 channel	Stable	*Original View Area color saturation *Long-term supply *OLED module stable supply *Stable quality and realibility *Good	*320° up full viewing angle
GX Hard OLED	5.83"	600cd/m <sup>2</sup>	7.63mm	Hard OLED oncell+front glass	Nitto	44 channel	Stable	*AA size is 5,83" view polarization *Thickness is the same as original *Front glass 9H, T=0,82mm, same as original, not easy broken *Full	*5,83" view area, the bottom R angle, black border slightly wider *320° up full viewing angle
ZY Hard OLED	5.65"	500cd/m <sup>2</sup>	>7.82mm	Hard OLED+sensor+front glass	?	32-34 channel	OLED easy broken	Cheaper than GX	*5,65" view area *Thicker asembly size, scrape hands *Thin front glass, OLED very easy broken *320° up full viewing angle
TianMa-TFT	5.68"	500cd/m <sup>2</sup>	8.26mm	LCD+TP+backlight	?	32-34 channel	Backlight not Stable	Cheap	*Low color saturation *Uneven backlight *Assembly thicker RMA rate (10-15%) consumption 30%-40% *High *High power