







































































































![](_page_26_Figure_0.jpeg)

![](_page_26_Figure_1.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_27_Figure_1.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_28_Figure_1.jpeg)

![](_page_29_Figure_0.jpeg)

![](_page_29_Figure_1.jpeg)

![](_page_30_Figure_0.jpeg)

![](_page_30_Figure_1.jpeg)

![](_page_31_Figure_0.jpeg)

![](_page_31_Figure_1.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_1.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_33_Figure_1.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

![](_page_35_Picture_0.jpeg)

![](_page_35_Figure_1.jpeg)

	AM- LCD	AM-PDLC	AM-OLED
I <sub>OFF</sub> (A)	< 2x10 <sup>-</sup>	< 2x10 <sup>-13</sup>	< 10 <sup>-12</sup>
I <sub>ON</sub> (A)	> 2x10 <sup>-7</sup>	> 2x10 <sup>-7</sup>	> 10 <sup>-6</sup>
I <sub>ON</sub> /I <sub>OFF</sub>	> 10 <sup>6</sup>	> 10 <sup>6</sup>	> 10 <sup>6</sup>
V <sub>T</sub> (V)	< 2	< 5 V	< 2 V
S (V/dec)	< 0.5	< 1.5	< 1.0
т (switching		> 3 ms	> 200 ns

![](_page_36_Figure_1.jpeg)

![](_page_37_Figure_0.jpeg)

![](_page_37_Figure_1.jpeg)

![](_page_38_Figure_0.jpeg)

![](_page_38_Figure_1.jpeg)

![](_page_39_Figure_0.jpeg)

![](_page_39_Figure_1.jpeg)

![](_page_40_Picture_0.jpeg)

![](_page_40_Figure_1.jpeg)

![](_page_41_Figure_0.jpeg)

![](_page_41_Figure_1.jpeg)

![](_page_42_Figure_0.jpeg)

![](_page_42_Figure_1.jpeg)

![](_page_43_Figure_0.jpeg)

	Specification of AM OLED panel	
	Pixel number	8 x 8
	Pixel pitch	1 mm
	Emission color	Green
(a) Whole lighting	Aperture ratio	27%
	Maximum lumanance	400 cd/m <sup>2</sup>
	I <sub>EL</sub> per 1 pixel at L <sub>max</sub>	22 μΑ
	Frame frequency	60 Hz
	Scan duty	1/60
(b) 16 gray scales	Gray scale method	Analog 16 gray scale

![](_page_44_Figure_0.jpeg)

![](_page_44_Figure_1.jpeg)

![](_page_45_Figure_0.jpeg)

![](_page_45_Figure_1.jpeg)

![](_page_46_Figure_0.jpeg)

![](_page_46_Figure_1.jpeg)

![](_page_47_Figure_0.jpeg)

![](_page_47_Figure_1.jpeg)

![](_page_48_Figure_0.jpeg)

![](_page_48_Picture_1.jpeg)

![](_page_49_Picture_0.jpeg)