

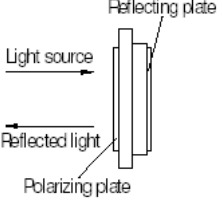
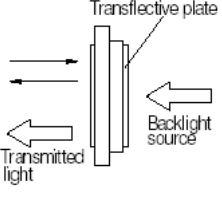
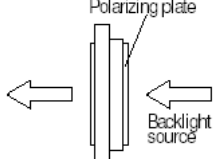


## DISPLAY CONDITIONS AND VIEWING ANGLE (I)

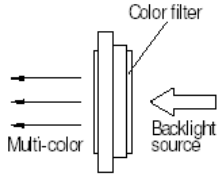
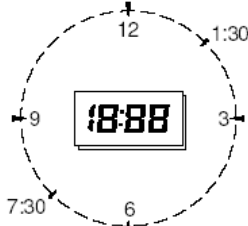
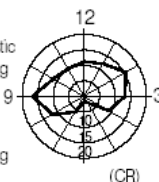
Display Mode		Applications	Characteristics
A) Display type	Positive display 	General	Basic low-power LCD. Display is illuminated by ambient light, making it difficult to read in dark environments.
	Negative display 	Back light display Multi-color display	A backlight makes characters stand out clearer. Multi-color display produced using color filters.
B) Polarizing plates, reflecting plates	Reflective type 	General	Generally used in bright environments.
	Transflective type (Semi-transparent) 	External light and back light display	Can be used as reflective type when ambient light is bright, and as transmissive type when ambient light is dim.
	Transmissive type (transparent) 	Back light display	Used with backlight for dark environments.
The thickness of the polarizing plate, transfecting plate, and reflecting plate may be restricted in order to allow optimum LCD characteristics.  Standard specification: 1) Polarizing plate thickness : 0.15mm 2) Transflecting plate thickness : 0.25mm Reflecting plate thickness : 0.25mm			

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## DISPLAY CONDITIONS AND VIEWING ANGLE (II)

	Display Mode	Applications	Characteristics
C) Wide angle viewing field display	TN	(backlight color) / (light color) Gray / Black	Viewing angle and direction somewhat limited.
	HTN	Gray / Black	Up to 1/48 duty drive possible. Wide visual field.
	STN	Green / Blue Gray / Purple Blue / White	Up to 1/200 duty drive possible. High quality image.
	FSTN	White / Black	Up to 1/200 duty drive possible. High quality image.
D) Color display	Color Filter		Color display stands out for alarms, etc.  Used in combination with negative display for partial coloring.
E) Viewing direction		For displays that require high-contrast at various angles and directions.	<p>Example</p> <p>Contrast characteristic diagram for following conditions:            3V, 1/3D, 1/3B            C= 60cX            Viewing angle setting 12:00</p>  <p style="text-align: right;">(CR)</p>

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