

ABSTRACT

With a liquid crystal display device comprising an STN liquid crystal element (20) comprised of 200° to 260° twist aligned nematic liquid crystal
5 (6) sandwiched between a first substrate (1) thereof, provided with a reflector (7) and first electrodes (3), and a second substrate (2) thereof, provided with second electrodes (4), a retardation film (12), and a polarizing film 11 that are disposed on the outer side of the second substrate (2) of the STN liquid crystal element, black display of low reflectance can be obtained in all
10 wavelength regions, thereby enabling bright display in high contrast to be effected by setting a $\Delta n d$ value of the STN liquid crystal element 20 indicating a birefringent tendency thereof in a range of 0.7 to 0.8 μm , a retardation value indicating a birefringent tendency of the retardation film (12) in a range of 0.35 to 0.40 μm , and an intersection angle formed by a
15 phase delay axis of the retardation film (12) and an absorption axis or a transmission axis of the polarizing film (11) in a range of 30° to 45°.