

HALS (Honeycomb Array Lens Sheet) is a micro-array lens sheet, which is manufactured by patented method of Grapac Japan. By printing special patterns on the underside of HALS lens sheet, 3D effect can be obtained. The 3D effect of HALS does not require 3D glasses or observations methods (parallel method, cross-over method), everyone can see it with their unaided eyes. Unlike Lenticular lenses, you can visualize 3D image from 360° direction. HALS Lens Sheet does not use special 3D photography or 3D graphics software, and you can create 3D image by utilizing conventional printing techniques.

HALS is a lens sheet for 3D printing

HALS Lens Sheet is carried out lenses processing on the surface of base materials (PP/PET)

HALS Lens Sheet



Square Series HALS



Honeycomb Series HALS

Obtained International patent for Manufacturing and Image processing method



Japan



U.S.A.



Canada



EU



Australia



Japan



China



Korea