The invention relates to a display device (1) in particular a digital display screen including integrated photovoltaic cells and comprising: (a) an array (3) of image zones (4) emitting light or backlit by a light source (2) placed behind the array (3) of image zones (4); (b) an array (6) formed by a plurality of photovoltaic cells (7 8) and a plurality of holes (13) in which array two adjacent photovoltaic cells form a hole; and (c) a lens array (5) that can be used to focus the light emitted by the image zones (4) in the hole between two adjacent photovoltaic cells (7 8). The device (1) is characterised in that the lens array (5) is positioned between the array (3) of image zones (4) and the array (6) of photovoltaic cells (7 8).