



Led columns are multiplexed from Arduino pins & 74HC138.
Number of columns: 8.

LED rows are controlled by 74HC595.
Number of led per/ row: 8. Total LEDs: 8 x 8 = 64.

Phototransistors (16 pcs) are read from 2 x 8 channel analog multiplexer/ demultiplexer 2x74HC4051 (16:2). Output of 2x74HC4051 are connected to A0 & A1 - Arduino Nano.

IR LED (12 pcs) power supply and photo-transistors (16 pcs) value reading can be enable/disable by switch (switch isn't shown on schematic).