

# List of my e-paper displays and their update times and behavior

| size   | resolution |         | panel       | controller | full update | partial update |           |           | comment  |
|--------|------------|---------|-------------|------------|-------------|----------------|-----------|-----------|--|
| inches | depth      | pixel   |             |            | time sec    | time sec       | to buffer | to screen |  |
|        |            |         |             |            |             |                |           |           |  |
| 1,54   | b/w        | 200x200 | GDEP015OC1  | IL3829     | 1,2         | 0,3            | √         | √         |  |
| 1,54   | 3-color    | 200x200 | GDEW0154Z04 | IL0376F    | 7,2         | 7,2            | -         | -         | controller has no window part addressing                     |
| 2,31   | b/w        | 128x250 | GDE0213B1   | IL3895     | 3,9         | 0,3            | √         | √         |  |
| 2,31   | 3-color    | 104x212 | GDEW0213Z16 | IL0373     | 15          | 15             | √         | √         | screen boarder flashes also                                  |
| 2,7    | b/w        | 176x264 | GDEW027W3   | IL91874    | 2           | 0,4            | √         | √         | with wavetable from new demo source                          |
| 2,7    | 3-color    | 176x264 | GDEW027C44  | IL91874    | 16          | 16             | √         | √         | leaves visible boarder of partial window                     |
| 2,9    | b/w        | 128x296 | GDEH029A1   | IL3820     | 1,6         | 0,42           | √         | √         |  |
| 2,9    | 3-color    | 128x296 | GDEW029Z10  | IL0373     | 15          | 15             | √         | √         | screen boarder flashes also                                  |
| 4,2    | b/w        | 400x300 | GDEW042T2   | IL0398     | 4,2         | 1              | √         | √         | modified wavetable for "fast partial update"                 |
| 4,2    | 3-color    | 400x300 | GDEW042Z15  | IL0398     | 16          | 16             | √         | -         | refresh to partial screen would modify the other half screen |
| 5,83   | b/w        | 600x448 | GDEW0583T7  | IL0371     | 15          | 15             | √         | -         | controller provides no differential update                   |
| 7,5    | b/w        | 640x384 | GDEW075T8   | IL0371     | 4,3         | 4,3            | √         | -         | controller provides no differential update                   |
| 7,5    | 3-color    | 640x384 | GDEW075Z09  | IL0371     | 32          | 32             | √         | -         | controller provides no differential update                   |

times are "busy active" times after refresh command sent to controller

"-" partial update to screen: whole screen updates (and flashes)

4.2" b/w: GxEPD uses modified wavetable for "fast partial update", similar to "Ben Krasnov" but with better persistence