Evaluation Kit
Instructions
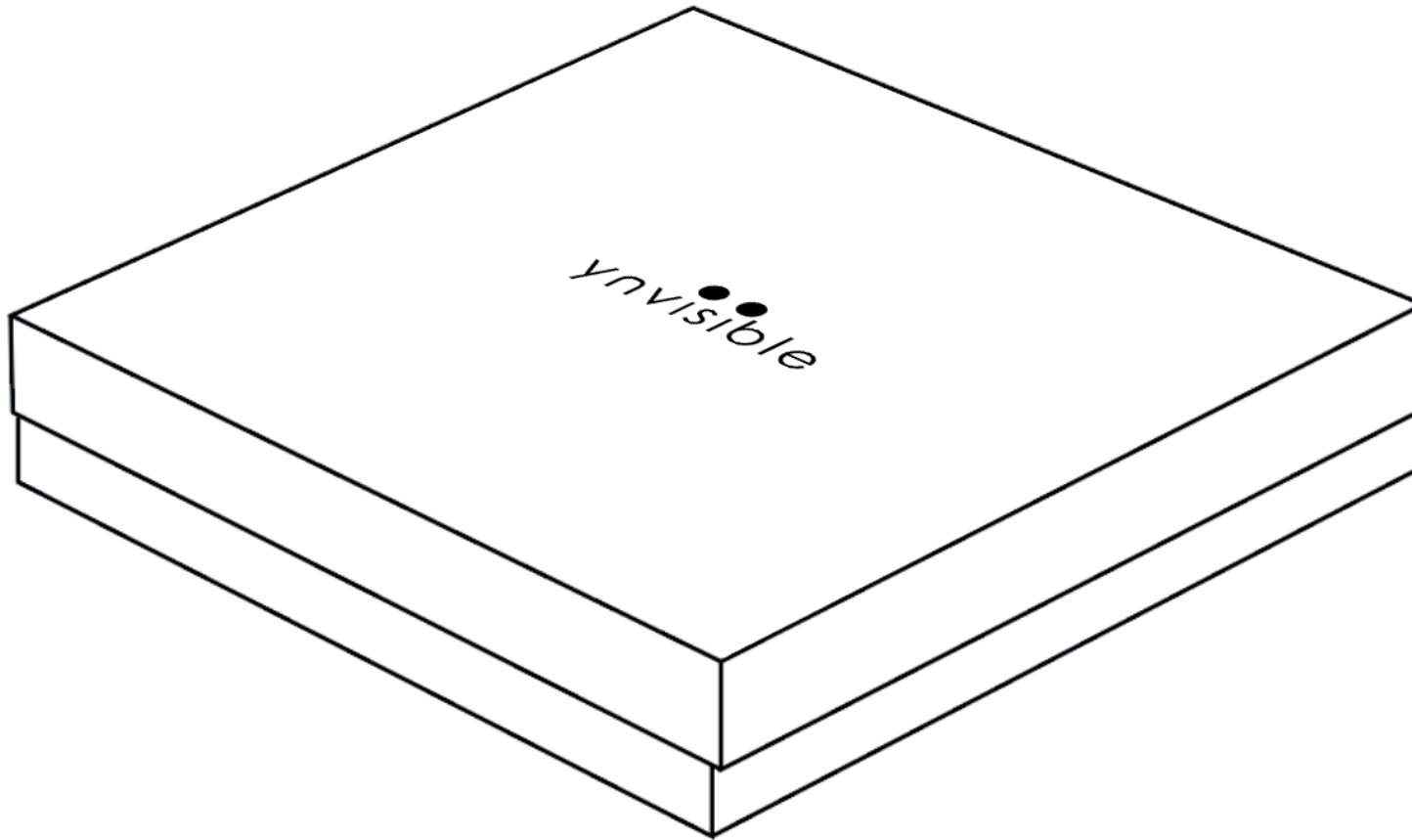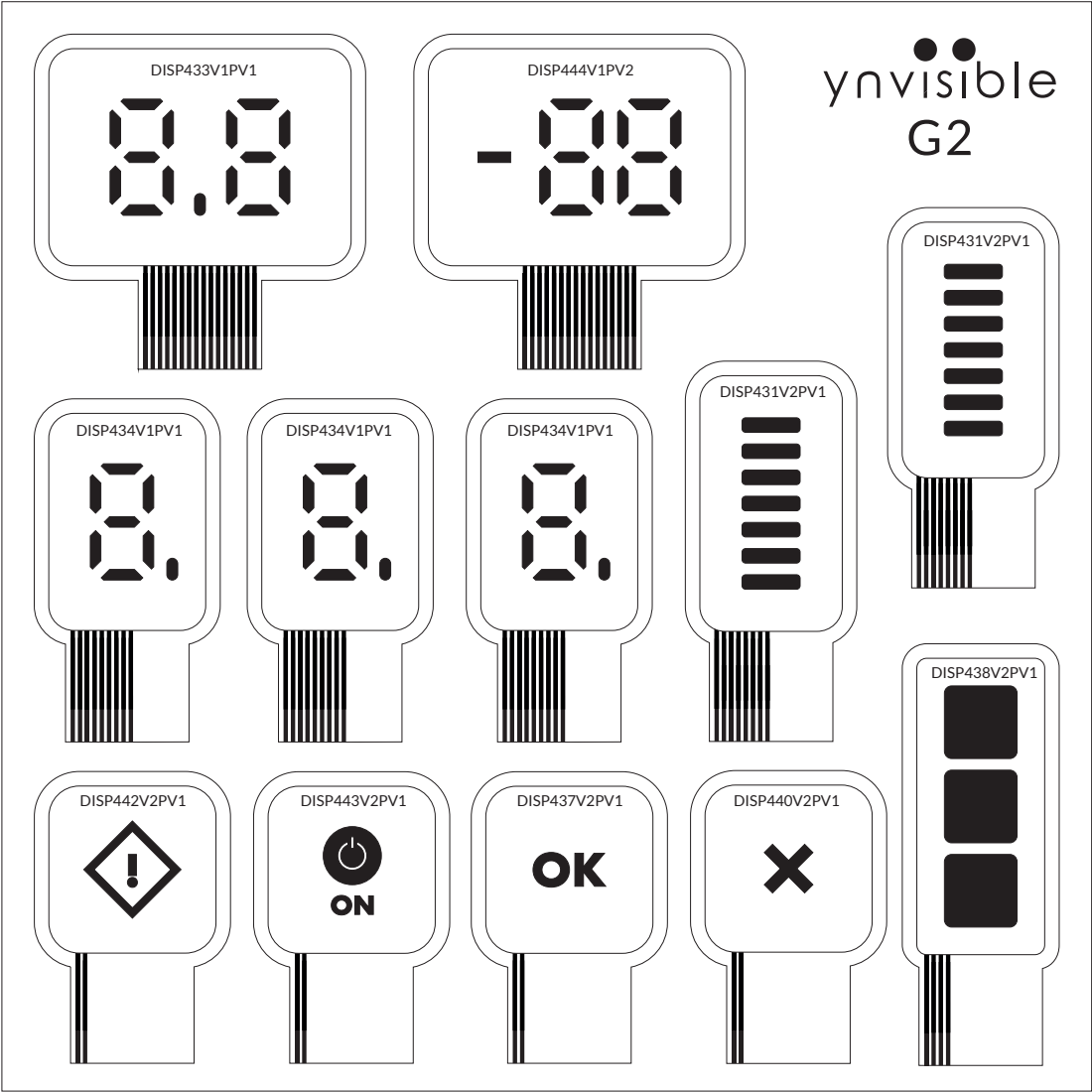
Content

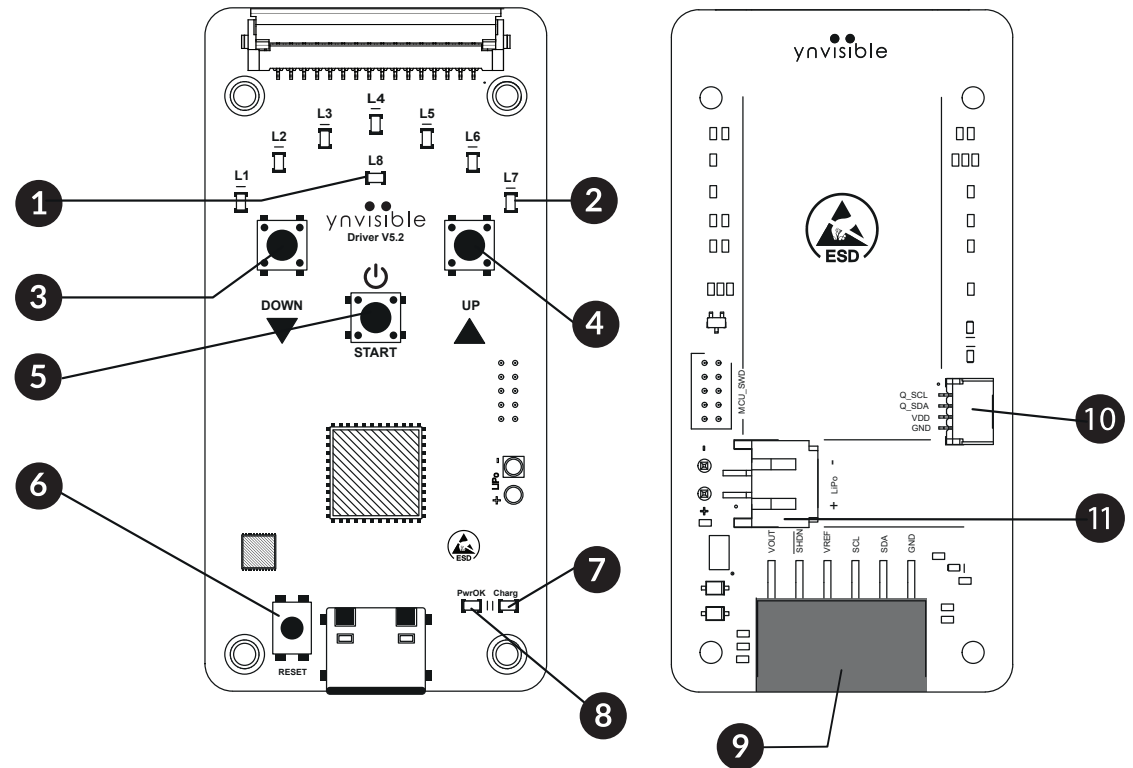### Driver
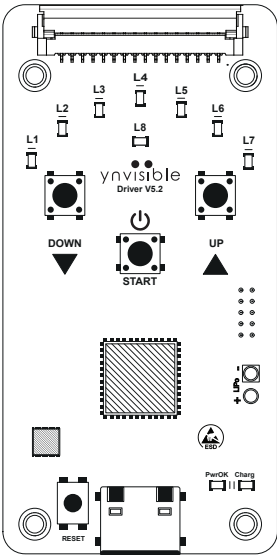
Content	Quantity
Driver	1
DISP433V1PV1	1
DISP444V1PV2	1
DISP434V1PV1	3
DISP431V2PV1	2
DISP438V2PV1	1
DISP442V2PV1	1
DISP443V2PV1	1
DISP437V2PV1	1
DISP440V2PV1	1

E-Paper Displays

DISP433V1PV1
DISP444V1PV2
ynvisible G2
DISP431V2PV1
DISP434V1PV1
DISP434V1PV1
DISP434V1PV1
DISP431V2PV1
DISP438V2PV1
DISP442V2PV1
DISP443V2PV1
ON
DISP437V2PV1
OK
DISP440V2PV1

Driver

1. Multicolor LED: L8

2. Selection LEDs: L1 to L7

3. Selection Down Button: DOWN

4. Selection Up Button: UP

5. Start Button: START / Power On

6. Reset Button: RESET / Manual power Off

7. Battery Charging (when Lipo present) : Charg

8. Power OK LED: PwrOK

9. Signage Connector

10. QWIIC connector (for developers)

11. Lipo battery connector

Power supply

Step 1 (Driver connection)

- Connect the Driver v5 to the power supply using the USB-C connector.
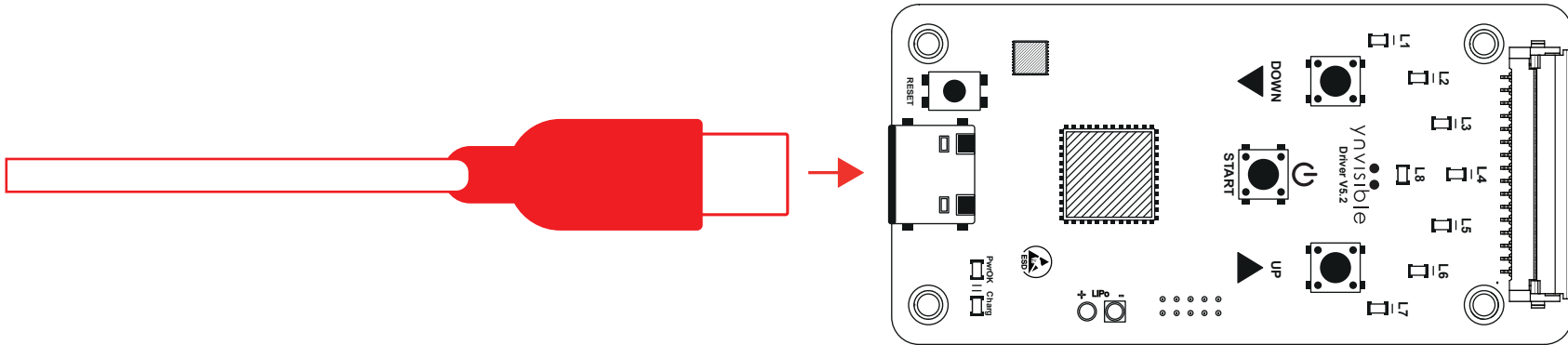
Power ON

Step 2 (turning the driver on)

- Press and hold the START button (figure 1). The PwrOK LED and the L8-Red LED will light up (figure 2). Keep it pressed (for about 4 seconds) until the Selection LEDs light up with the boot-up animation: LED L8-Blue and the Selection LEDs will light up in increasing order and turn OFF in decreasing order, leaving only L1, L8-Blue and PwrOK ON (figure 3).

Note

To power OFF the driver remove the usb cable
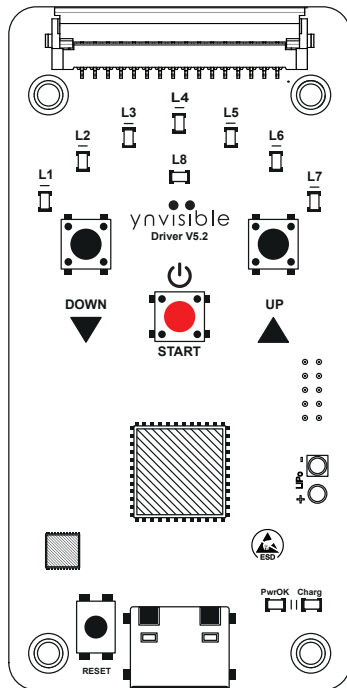Alternatively, press the RESET button (all LEDs will turn OFF)
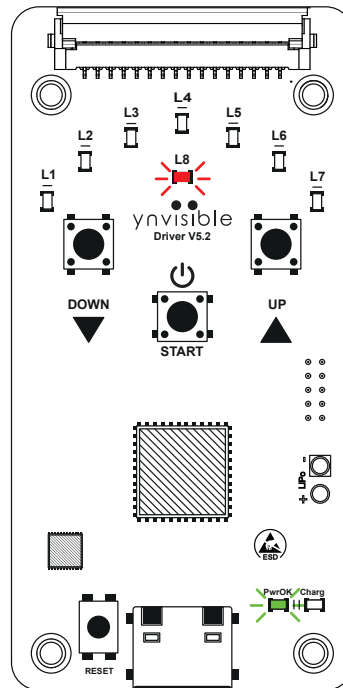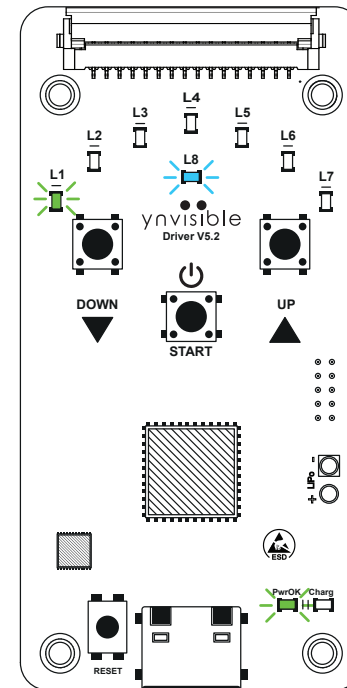

Figure 1

Figure 2

Figure 3

Display connection

The driver is a simple and intuitive tool to operate the display.

- Open the FPC connector (gently push it upwards) (figure 4 and 5)
- Connect the display (figure 6)
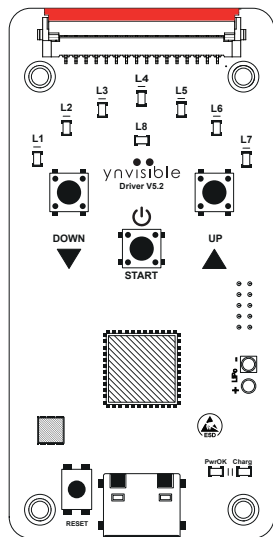- Close genty the FPC connector (figure 7)
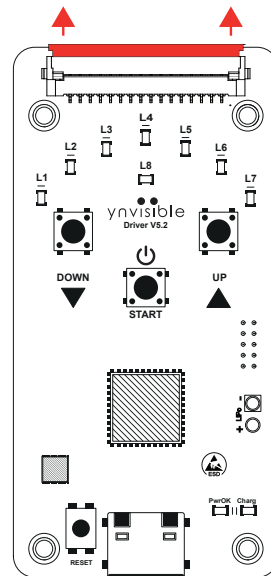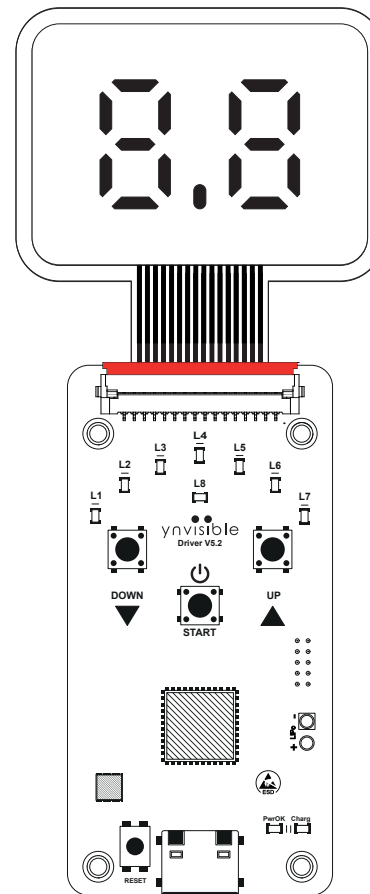

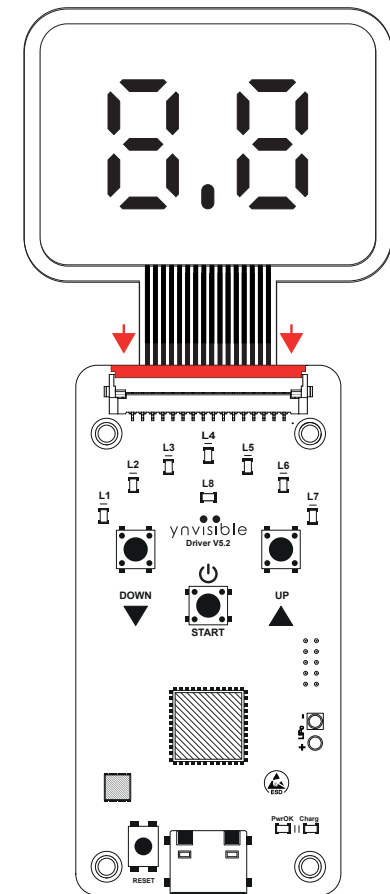| Figure 4 | Figure 5 | Figure 6 | Figure 7 |

Animations

To select an animation, follow these steps:

a. Use the UP and DOWN buttons to select the desired animation.

b. When the UP button is pressed, the Selection LEDs light up in ascending order.

c. When the DOWN button is pressed, the Selection LEDs light up in descending order.

d. After animation 7 (LED L7 ON), LEDs L1 and L2 light up, followed by L1 and L3, etc.

e. After reaching the L1, L2 and L5 set (16th animation), it returns to animation 1 (only L1 ON), as indicated in Animation Table (page 9).

f. Press the START button to begin the animation.
    - LED L8 - Green turns ON

g. Press the START button to pause/resume the animation.   - LED L8 - Green blinks while paused)

h. Press and hold for 2 seconds to cancel the animation.
    - LED L8 - Blues turns ON

i. Repeat the procedure to either restart or select a new animation.

Note:

The UP and DOWN buttons are disabled while an animation is running, and become available again after canceling the animation (press START for ~2 seconds).
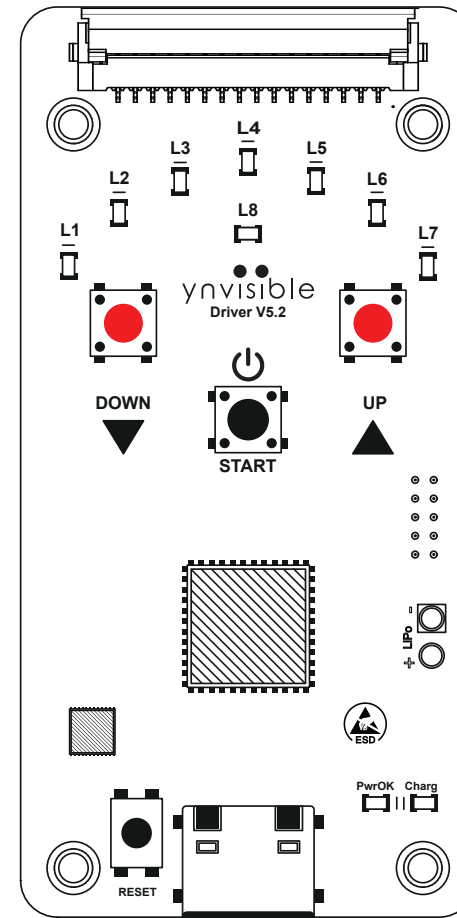

Figure 7

Available animations

Animation	Active LEDs	Display Part Number	Display Description	Animation Description
1	L1	All Displays	all	Toggle Color/Bleach
2	L2	DISP444V1PV2	15 seg display (Negative)	Positive - Count Up
3	L3	DISP444V1PV2	15 seg display (Negative)	Positive - Count Down
4	L4	DISP444V1PV2	15 seg display (Negative)	Negative - Count Up
5	L5	DISP444V1PV2	15 seg display (Negative)	Negative - Count Down
6	L6	DISP433V1PV1	15 seg display (Dot)	Dot ON - Count Up
7	L7	DISP433V1PV1	15 seg display (Dot)	Dot ON - Count Down
8	L1+L2	DISP442V2PV1 / DISP443V2PV1 DISP437V2PV1 / DISP440V2PV1	1 seg display	ON (for some seconds) and then turn OFF
9	L1+L3	DISP434V1PV1	7 seg display	Count Up, Dot ON (blink on cycle transition)
10	L1+L4	DISP434V1PV1	7 seg display	Count Down, Dot ON (blink on cycle transition)
11	L1+L5	DISP431V2PV1	bar graph seg display	Count Up
12	L1+L6	DISP431V2PV1	bar graph seg display	Count Down
13	L1+L7	DISP438V2PV1	3 seg display	Count Up
14	L1 + L2 + L3	DISP438V2PV1	3 seg display	Count Down
15	L1 + L2 + L4	DISP438V2PV1	3 seg display	Middle ON, Top ON, Bottom ON