

## 1 Supplementary Information

### 2 Supplementary Table 1 - List of parts for plate reader illumination upgrade

Item	Supplier	Part no.
fiber-optics waveguide $\varnothing$ 1.5 mm	Thorlabs, Dachau	FT1500UMT
multi-LED light source	Mightex Systems, Toronto	WFC-H8-0385-0420-0470-0530- 0590-0617-0680-0850-000
control unit multi-LED light source	Mightex Systems, Toronto	BLS-SA04-US
Arduino-Mega microcontroller	EXP GmbH, Saarbrücken	EXP-R08-009
Seedstudio CAN-BUS Shield	EXP GmbH, Saarbrücken	EXP-R02-200
serial port Y-cable	Reichelt Elektronik GmbH, Sande	DELOCK 65403
serial port gender changer	Reichelt Elektronik GmbH, Sande	COM 990

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### 5 Supplementary Figure 1 - Intercepting CAN-bus communication

6 (A) The serial cable that connects the plate reader to its injector module has 9 pins; the CAN-  
7 bus communication occurs via pins 3 (CAN-Low) and 4 (CAN-High).

8 (B) An RS232 Y-cable is spliced into the serial connection between plate reader and injector  
9 module such that the CAN-bus communication can be intercepted and processed by an Arduino  
10 microcontroller. To this end, two jumper wires were soldered to pins 3 and 4 of the free RS232  
11 port of the Y-cable and then connected to the respective ports on the Seedstudio CAN-Bus  
12 Shield.

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