i-shot

i-shot technology is offered as a module to be integrated with any manufacturer's Espresso Machine to enable it to deliver precise volumes of coffee direct to the cup.

i-shot is a weight based module that allows the end extracted liquid through coffee grinds to be stopped at the exact volume pre programmed by weight.

This means that the perfect pre set brew ratio is achieved for every extraction.

Instant extraction of coffee as soon as the cup is placed on the scale.

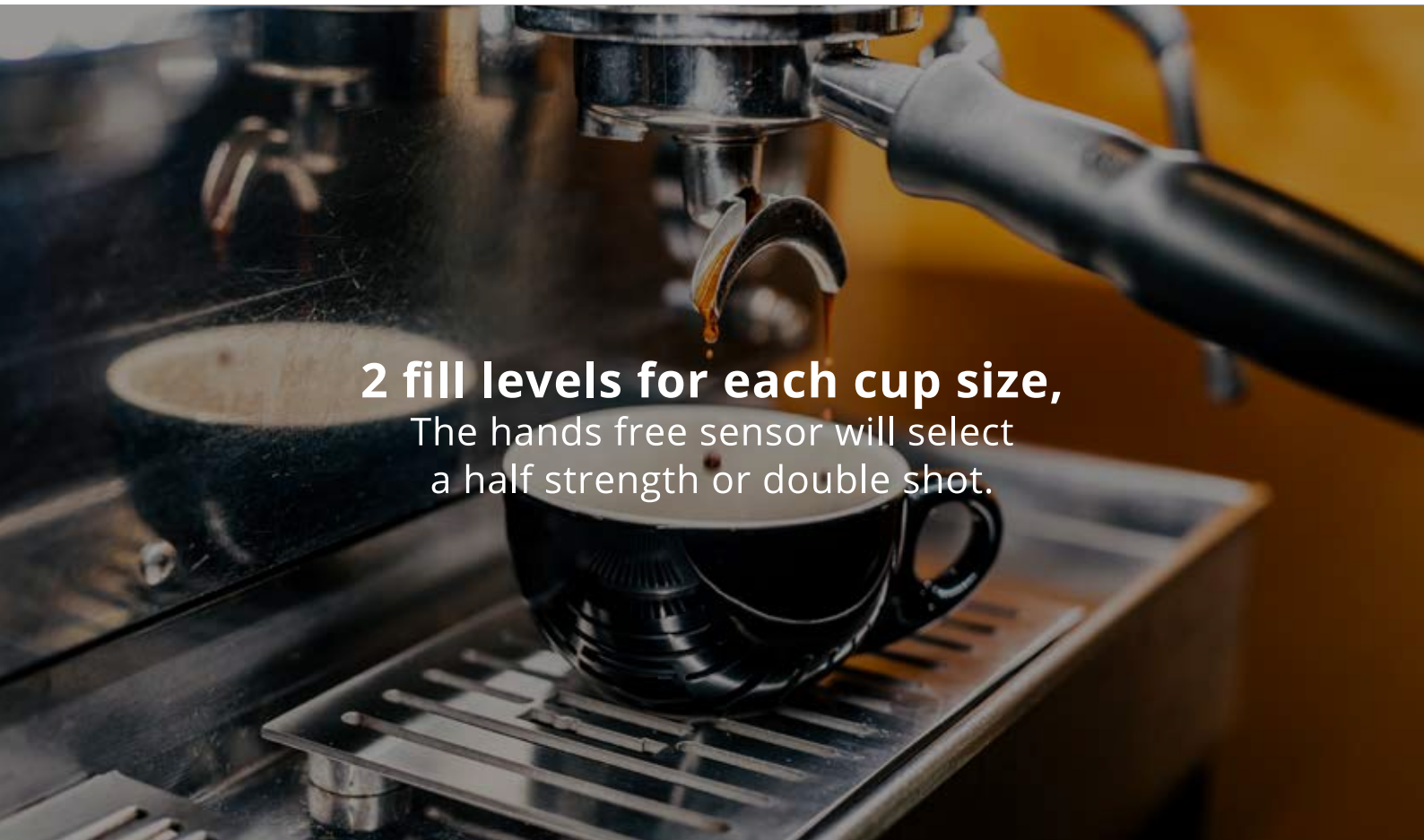
Exact end liquid weight regardless of the grind setting, time or water flow.

shot

No button pressing to select single or double shots for a cup. Just pass the hands free sensor.

Automatic selection of 3 different cup sizes by simply placing the cup on i-shot

Consistent brew ratios ensuring no variation of espresso.



2 fill levels for each cup size,
The hands free sensor will select
a half strength or double shot.

i-shot has been adapted from the i-milk platform.

i-shot has been produced as a prototype to show proof of concept but is still in development. Although the accuracy and utility of I-shot is already at a high level, further development options include:

The following are the current specification limitations we have:

- We are currently using a 10kg load cell.
- Sampling rate is 20 per second.
- Scale is measuring in 1-gram increments.
- A physically large size load cell.
- External comms box required for setup and adjustment.

Future tech required for i-shot with our new PCB currently in development:

- 3kg load cell for smaller measurement range to increase accuracy.
- 0.1 gram weight measurements for sampling and smaller settings of desired volumes.
- Sampling rate of 100 per 1 second allowing for even greater accuracy.
- Removal of the comms box as the new PCB will be the controller, it is built into the LCD display.
- Bluetooth connection between the i-shot and i-grind to adjust brew ratios using an app.
- When connected the i-grind would tell i-shot the change in grind and then i-shot would adjust accordingly to ensure the same brew ratio is maintained. This would adjust for all the cups programmed in i-shot.
- Ability to have a variable cut off for the maximum liquid volume to ensure motor does not burn out if it was to continually run.

Additional options

- After a shot has finished the weight and time will be displayed-it will disappear when activated
- Daily, weekly, monthly extracted shot counter
- The ability to have 6 pre set cups
- Manual mode option for customers own cups or takeaway paper cups

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www.i-milk.com.au/i-shot for more info and videos

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