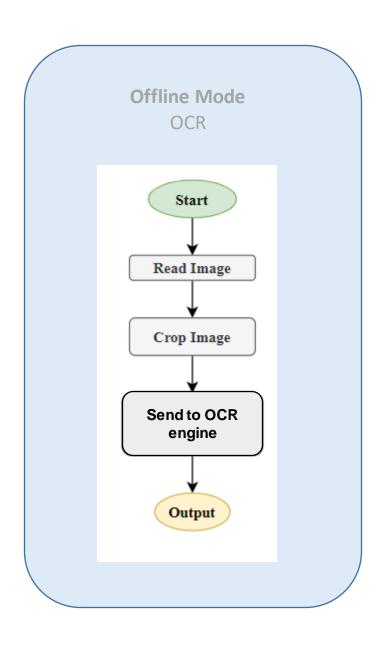
Process Flowchart



000027694

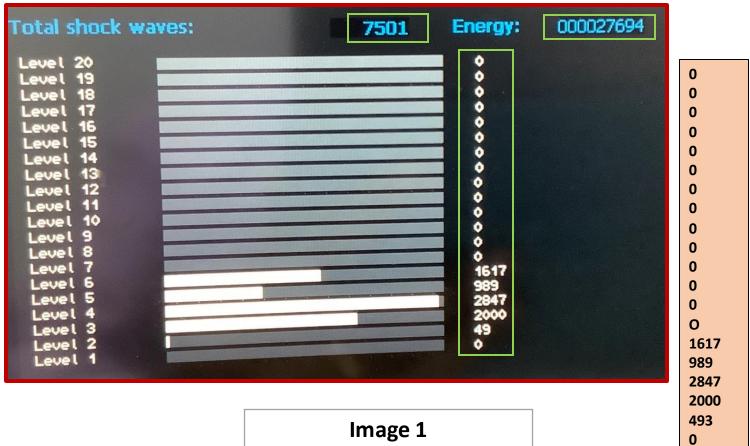


Image 1

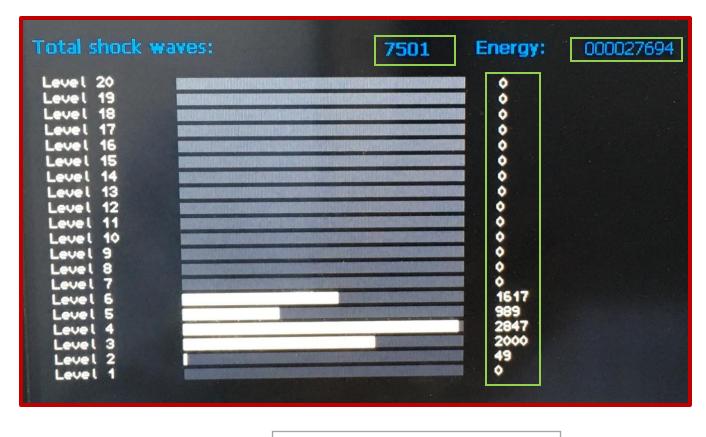


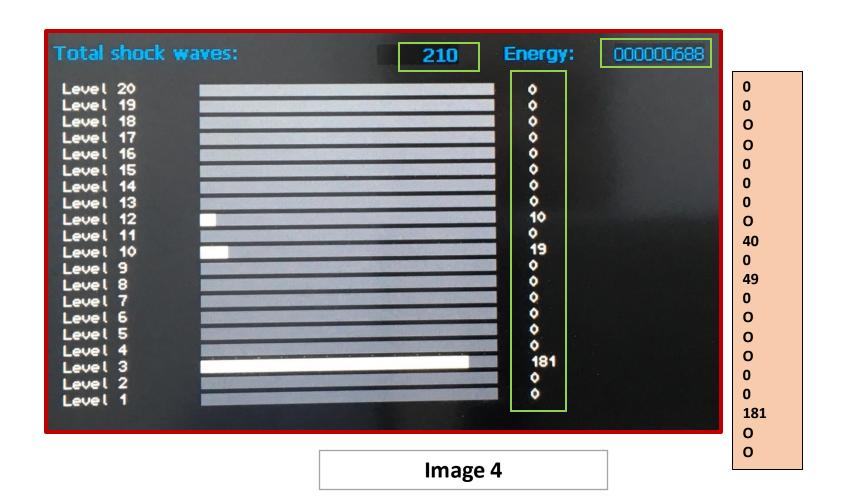
Image 2

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Image 3

000000688



Output Analysis

Overall Accuracy

	OCR
Total no. of detections	88(including zeros)
No. of accurate detections	77
Accuracy in %	87.5%

- Reasons for Failure in offline mode using OCR
- 1. Digit **1** predicted as digit **4**
- 2. Digit **0** predicted as degree symbol(°), digit 6

Challenges

Challenges:

Challenge 1: Camera orientation while image capture has to be restricted

Challenge 2: Formula to cross verify Histogram bar correlation with Total Shock waves and Energy value

Challenge 3: Illumination condition, zoom level, the distance from which the image has been captured, focus level will impact the accuracy

Challenge 4: Image preprocessing pipeline to be established

Challenge 5: Re-training of OCR engine for fine tuning accuracy

Extraction of Histogram data

Purpose:

To cross-verify the output of OCR with the graphical data



Method of verification:

(Histogram highlighted portion percentage) * (Total bar length Value) = Individual level value (as detected from OCR)

Histogram highlighted in percentage:

5.2%

9.5%

92%