

# GRAMS

Grain Measurement System

# INWEEON

"We See, We Simplify"



Measuring rice samples is not time consuming anymore. Just a few clicks and your job is done. Complete the process in two easy steps:

1. Spread the rice on flatbed scanner
2. Click on "Measure" button

Measurement is DONE

## QUICK

## EASY

## ACCURATE

GRAMS is a revolutionary rice analyzer software based on patented rice segmentation techniques and innovative image processing algorithms. The software captures high resolution image from a flatbed scanner, removes image noise using color pipeline, performs auto-calibration and calculates shape and color statistics for each rice particle using our innovative segmentation algorithms.

### Features

- Average length
- Average width
- Aspect ratio
- Whiteness Index
- Average color parameter
- Chalky Grains
- Broken grains
- Reddish grains
- Greenish grains
- Damaged / Discolored

### Advantages

- 99% accuracy
- Record keeping is easy
- Print the analyses
- Very easy to use
- Save time
- Save manpower cost
- Improve milling process
- Increase your revenues

### *Our Customers*



ATC Foods Pvt. Ltd.

### Contact Us:

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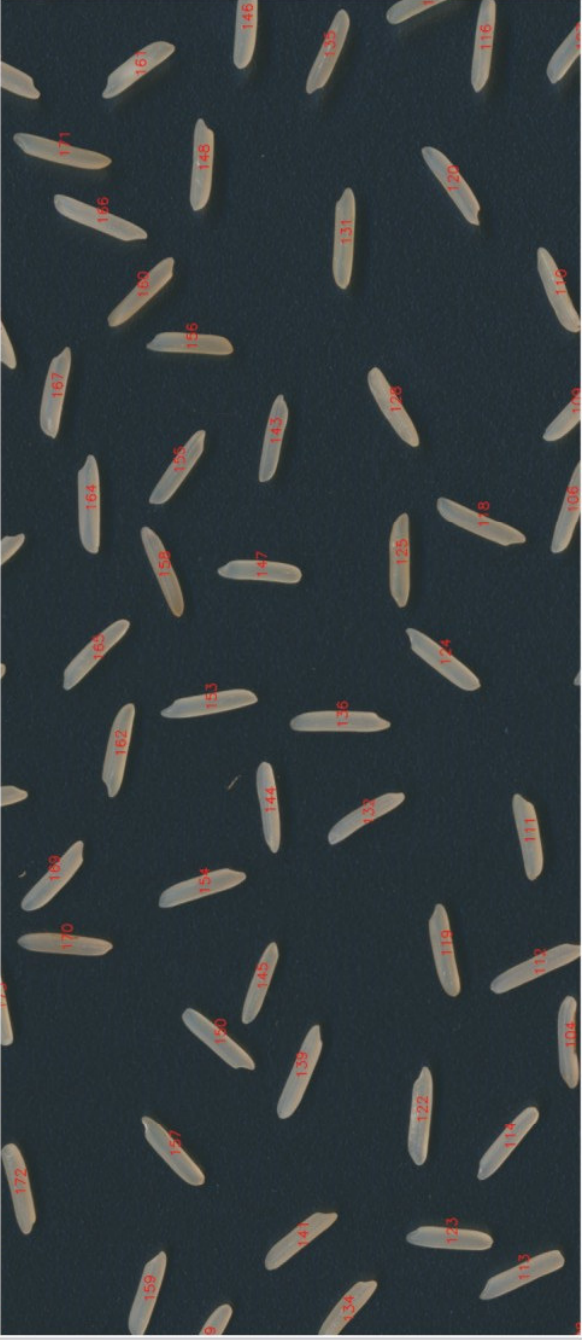
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INFO IMAGE READINGS ANALYZE SETTINGS



Measure

Print

Export



INFO IMAGE READINGS ANALYZE SETTINGS

Sample No.	Image	Length(mm)	Width(mm)	Aspect Ratio	L*	a*	b*	Chalky Area Ratio	Broken
52		8.26	1.79	4.67	55	0	9	0	NO
53		7.51	1.94	3.87	53	0	10	0	NO
54		8.04	1.84	4.36	53	0	8	0	NO
55		8.1	1.84	4.4	54	0	8	0	NO
56		8.82	1.79	4.92	52	0	9	0	NO
57		8.82	1.92	4.59	54	0	12	0	NO



INFO IMAGE READINGS ANALYZE SETTINGS

Name	Average	S.D.	Name	Average	S.D.
Length	8.4	0.45	RED	135.3	4.55
Width	1.9	0.12	GREEN	127.1	4.59
Aspect Ratio	4.41	0.34	BLUE	112.26	5.7
Chalky Area Ratio	0	0	L*	53.17	1.79
			a*	0.12	0.37
			b*	8.67	1.48

**WHITENESS INDEX = 29.80**

**TOTAL KERNELS = 293**

PARTICLE DISTRIBUTION:

Range	Count	Percentage(%)
Below 8 mm	58	19.79
8 mm - 8.5 mm	0	0
8.5 mm - 9 mm	0	0
9 mm - 9.5 mm	0	0
9.5 mm - 10 mm	0	0
10 mm - 10.5 mm	106	36.17
10.5 mm - 11 mm	99	33.78
11 mm - 11.5 mm	30	10.23
11.5 mm - 12 mm	0	0

Type	Count	Percentage(%)
Broken	1	0.39
Chalky	0	0
Yellowish	23	11.26
Reddish	0	0
Greenish	1	0.34
Damaged/Discolored	0	0
Immature	0	0