

# MG 1800 · AI Grain Analyser

AI-ML powered · Non-destructive · 320° 3D imaging · Continuous automatic analysis

The Millgrain MG 1800 delivers accurate, reliable grain quality assessment through AI-ML-based analysis combined with transmission measurement and 320° 3D imaging. Integrated weighing and continuous automatic feeding enable fast, traceable operation for procurement centres, food laboratories, milling units and government quality programs.

**320°**

3D IMAGING COVERAGE

**2–4 min**

MEASURING TIME

**45 fps**

DUAL 4MP CAMERAS



## SYSTEM & ANALYSIS

System	AI-ML based
Assessment	Non-destructive
Measurement	Transmission-based
3D Imaging	320° 3D imaging
Size & Area	Grain size (L × W) and area (volume / weight)
Measuring Time	Approx. 2 – 4 minutes

## SAMPLE HANDLING

Sample Presentation	Automatic
Integrated Scale	Measures sample weight
Feeding & Analysis	Continuous, automatic
Supported Grains	Paddy, wheat, rice, millets, pulses, mustard, sunflower
Standards	AGMARK · FAQ · FSSAI · BIS aligned
Output Formats	PDF · XLS · JSON

## IMAGING & OPTICS

<b>CAMERA MODULE</b>	Two <b>4MP 48-bit RGB CMOS</b> cameras operating at <b>45 fps</b> , capturing approximately <b>25,000 pixels per kernel</b> for efficient, high-fidelity data extraction.
<b>OPTIC MODULE</b>	Prism polarized film / lens assembly combined with <b>RGB backlight</b> — delivers high-quality imaging with minimal background noise and consistent colour reproduction across kernels.

## DISPLAY & COMPUTING

Screen	10.1" TFT · 1280 × 800 px · PCAP Touch
Operating System	Ubuntu Linux
Interfaces	1 × front USB · 3 × back USB
Serial / Network	2 × RS232 · 1 × Ethernet (RJ45)
Data Handling	Local storage · audit trail · server/cloud ready

## POWER · ENVIRONMENT · DIMENSIONS

Power Input	100–240 V AC · 50–60 Hz · 1.7 A
DC Option	12 V car adapter compatible
Operating Temp.	5 – 40 °C
Humidity	Up to 80 %, non-condensing
Dimensions (H×W×D)	450 × 570 × 400 mm

### OPTIONAL

Thermal Printer

External Keyboard

Web Server Integration

Cloud Connectivity

### OFFICE

NO.312, Arani Main Road,  
Thuthipattu, Vellore,  
Tamil Nadu – 632 011

### FACTORY

D.No:6, Polupalli SIDCO  
Industrial Estate, Polupalli,  
Krishnagiri – 635 115

### CONTACT

81055 66637 / 87782 01289  
millgrain2000@gmail.com  
www.millgrain.com