

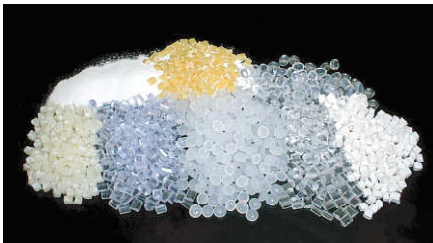


# PELLET & GRANULE INSPECTION SYSTEM

## PGI-IV



Original detection system



Detects foreign matter or discoloration among Pellet and Granule



### Features

- Remarkable detection capability. (detection accuracy : 16.6 $\mu$ m).
- Compact design using the combination of an inspection box and control panel.
- Equipped with a clean unit as standard, making this system applicable for installation in a simplified clean room or factory.
- Simple operability by merely setting the parameters on a touch-panel and then pressing a single button to perform the automatic inspection.
- Enables automatic on-line inspection when connected to the automatic sampling line.
- Provides a mechanism that collects foreign matter in a container through suction by an ejector and is useful for analysis and other purposes.

## ■ Function

This system has been designed to detect only foreign matter among transparent pellets without mistakenly detecting air bubbles, pores, convexity, and the like as foreign matter. In order to enable such difficult detection among transparent pellets, we have developed an original turntable system and combined it with our image processing unit.

## ■ Inspection items

- (1) Black or brown substances among pellets or in powder.  
(classified into 5 size groups)
- (2) Yellow-colored pellets.

## ■ Inspection Performance

- ① Color camera system
  - Performance 8.3 μm/cell
  - Resolvable 16.6 μm
  - Handling Performance Clear Pellet : 1.3Kg/Hr
  - Milky & White Pellet : 5Kg/Hr
- ② Monochrome camera system
  - Performance 8.3 μm/cell
  - Resolvable 16.6 μm
  - Handling Performance Clear Pellet : 2Kg/Hr
  - Milky & White Pellet : 7Kg/Hr

## ■ Objects inspected

Pellet : Transparent pellet, milky-white pellet, white pellet, and various types of cut products of PE (LD or HD), PP, PC, PS, AS, PET, ABS, POM, PA, PMMA, RB, or fluorine-based compound.  
Powder: White powder, faint-colored powder, and various types of powder and granule of PVC.

## ■ Specifications

Image Processing Unit	HU-3120
Camera	Color and Monochrome Camera
Lighting	LED Strobe
Monitor	15-inch Color Monitor
Unit Size	H1700 × W1000 × D750 mm
Power Source	AC100V ~ 200V
Power Consumption	0.5KVA
Air Supply	0.4Mpa 500nl/min

## ■ Performance of Data logger PC

- Inspection Data Saving
- Foreignmatter Image Saving 100~2500
- Trend Graph
- Sorting

## ■ An example of inspection system

