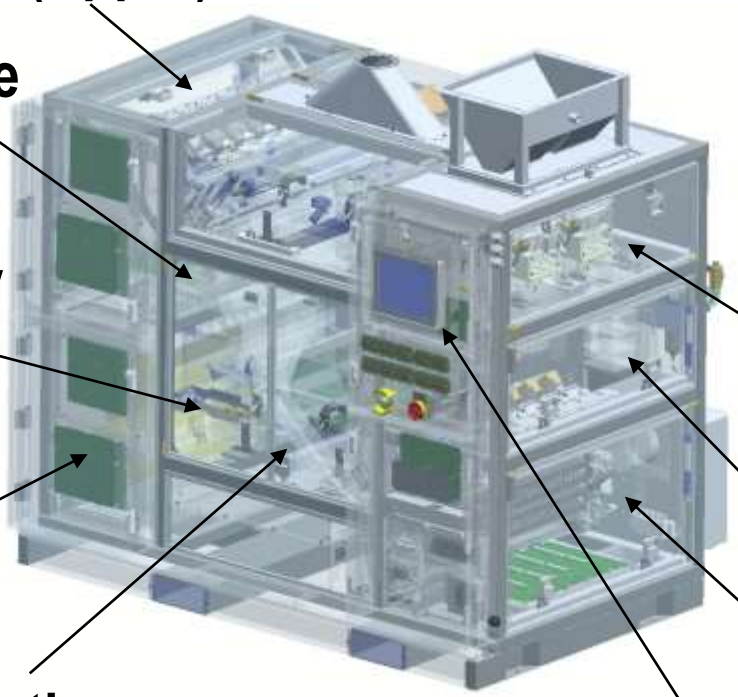
PCS600BFD

PCS600BFD

Construction of PCS600BFD



Optical section (Upper)

Ejector and Nozzle (Upper)

Main power supply

Sort engine

Sorting section

Material feeding section

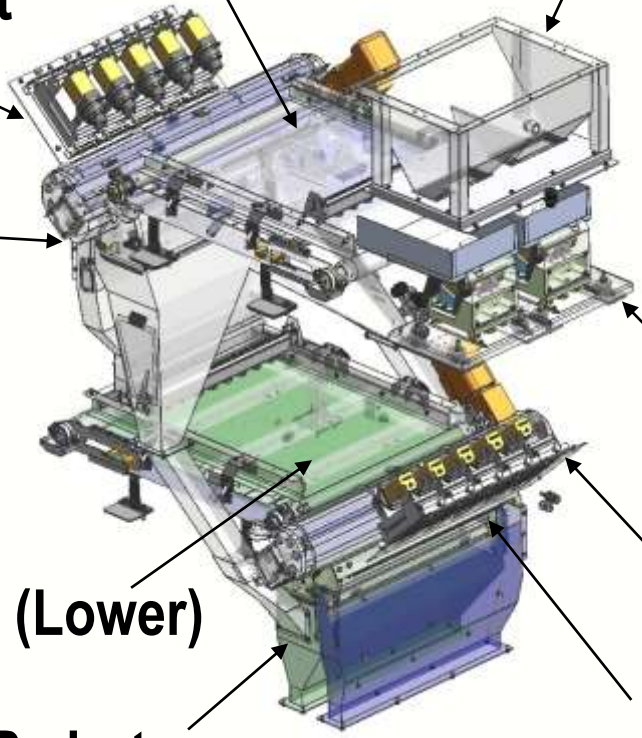
Optical section (Lower)

Ejector and Nozzle (Lower)

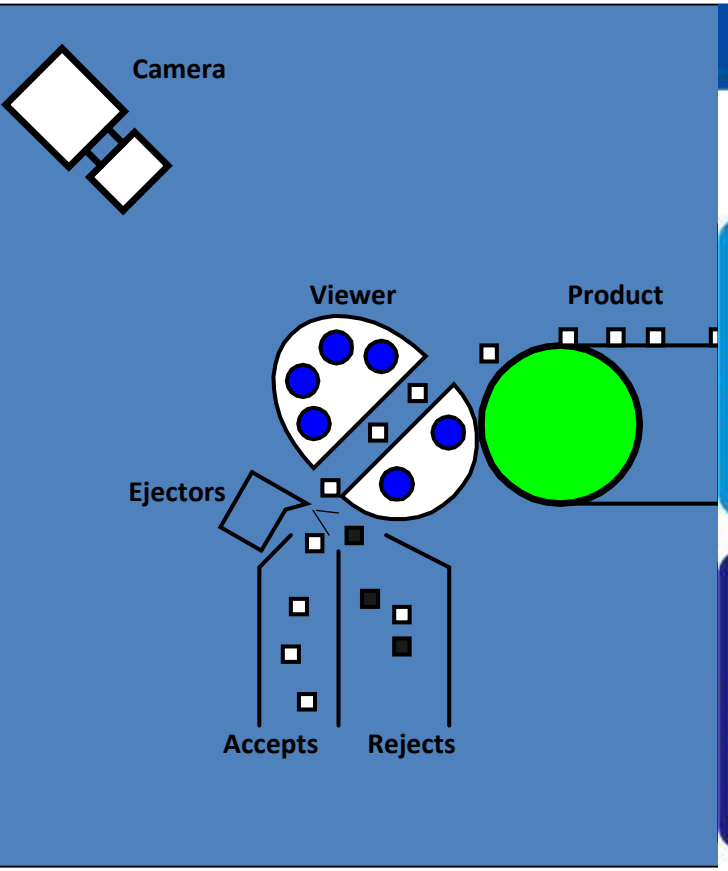
Operation panel

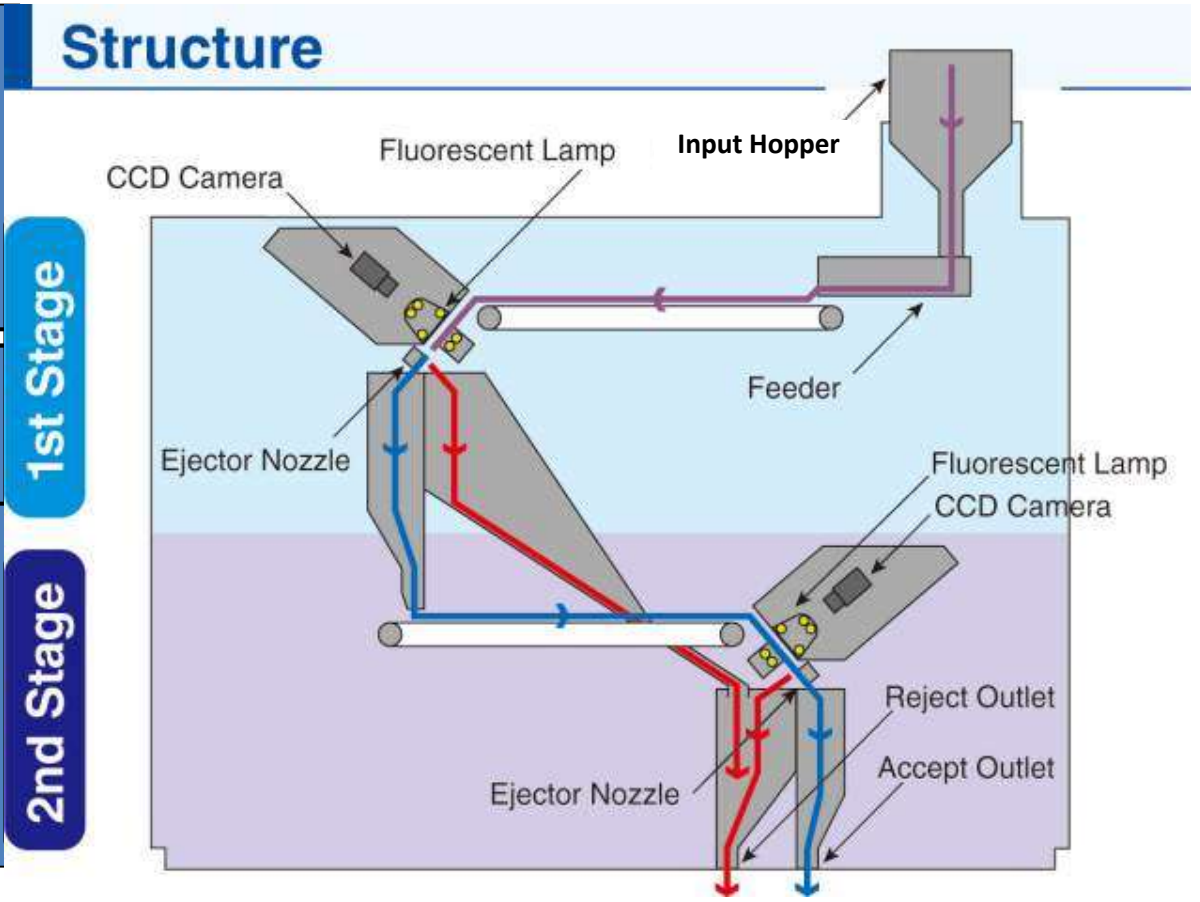
Closed Body with Air conditioning system

Construction of PCS600BFD



Construction of PCS600BFD





One side view and 2 pass system

Feature of PCS600BFD

High Resolution

5 monochromatic cameras 2048 pixels

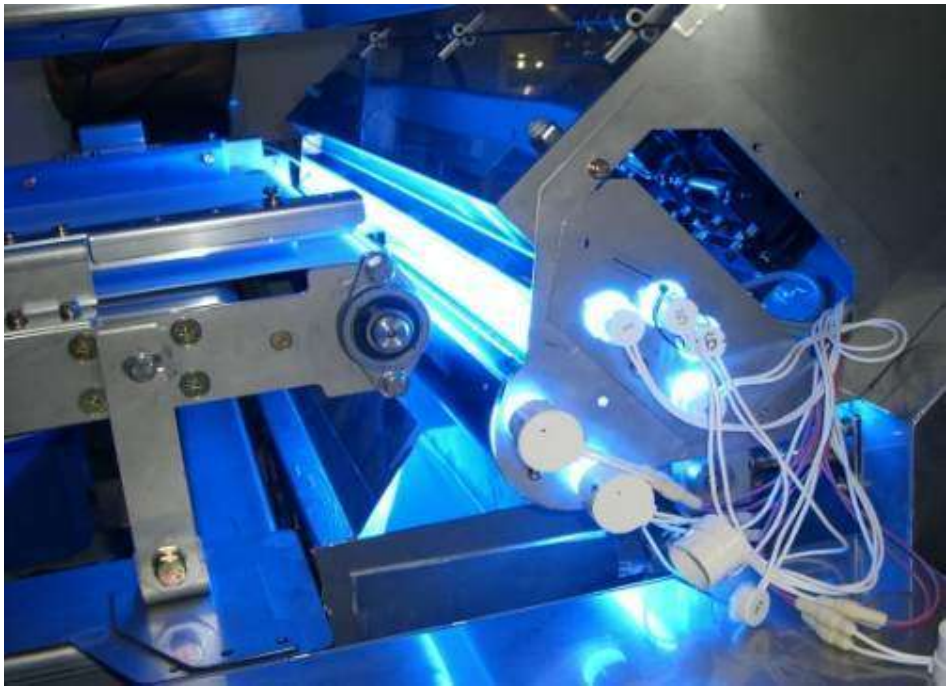
Resolution = 600mm/2048/5 = 0.06mm/pixel

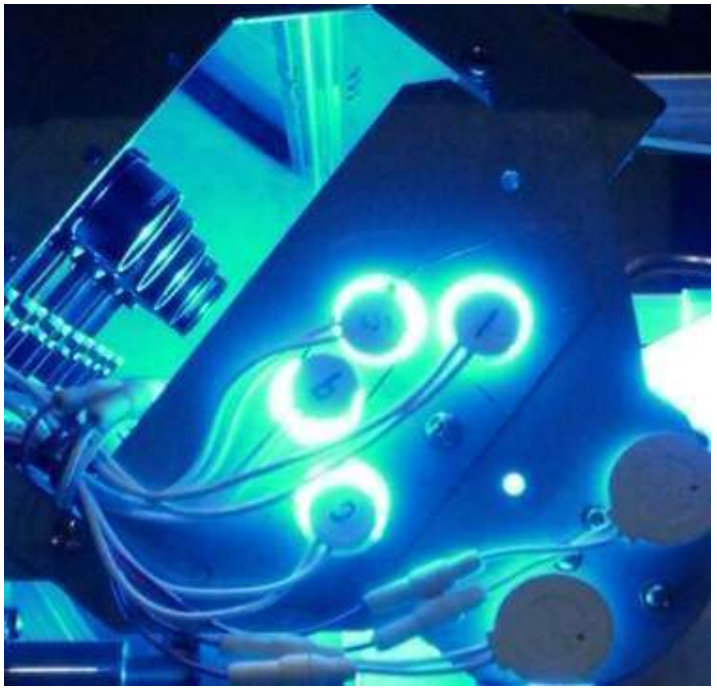
Feature of PCS600BFD

Special lighting system in viewer

6 Blue Fluorescent Lamps (4 Top, 2 Bottom) for each viewing pass

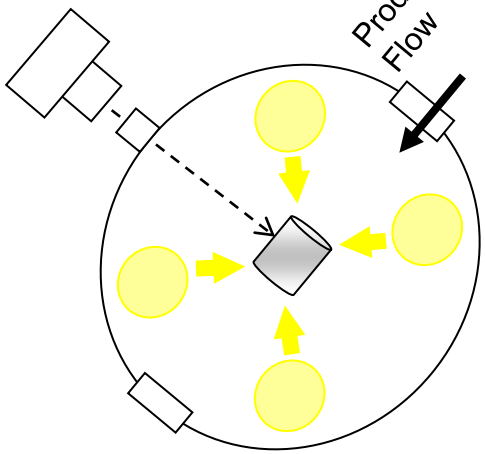
Adjustable light level to accommodate different sorting applications such as transparent product.

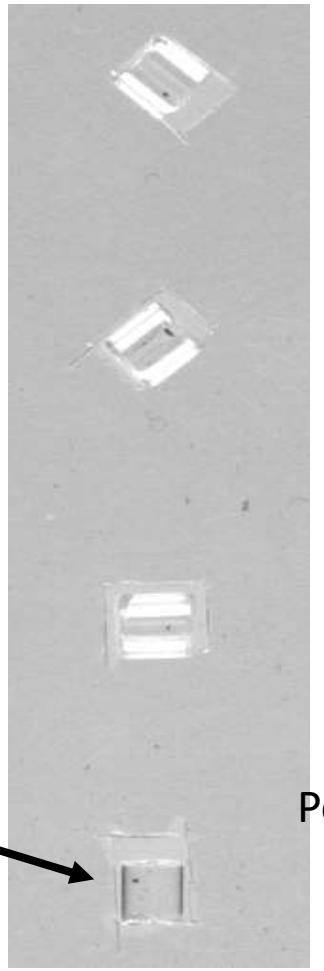




Feature of PCS600BFD

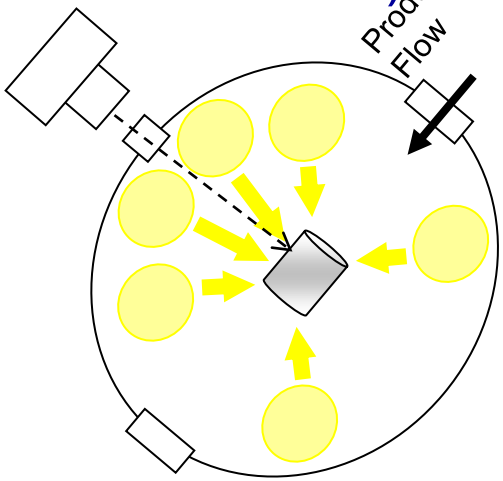
Pellet Sorter
(CS
Conventional)



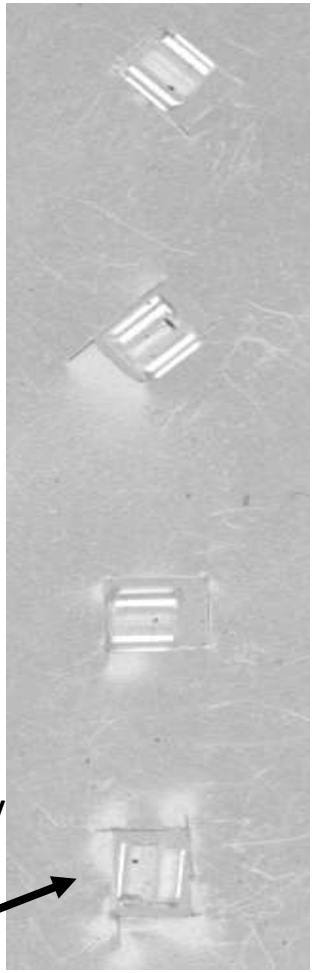


Miss detect
shadow on both
edges of pellet

Pellet Sorter
(PCS
Current model)



Possible to increase sensitivity
due to reduce shadow
by new optical box



Special lighting structure for reducing shadow

Feature of PCS600BFD

Sensitivity Simulation

The system can simulate Sorting Sensitivity by capturing image of the product. The defect is highlighted.

Sort sample of PCS600BFD

Accept

Defects

Sort sample of PCS600BFD

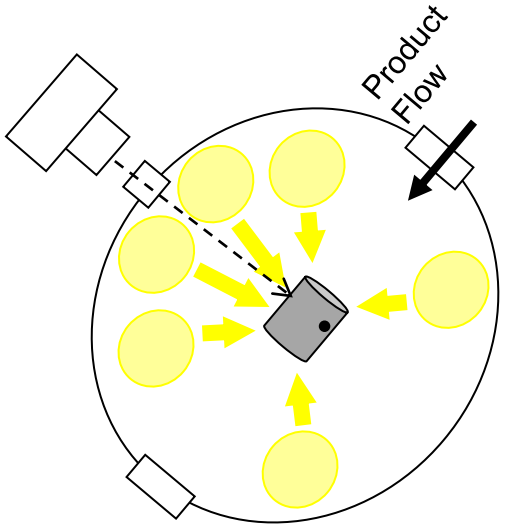
Accept

Defects

Concern of PCS600BFD

One side view *can not* detect defect spot on back side of Non-transparent (opaque) product.

Concern of PCS600BFD



One side view

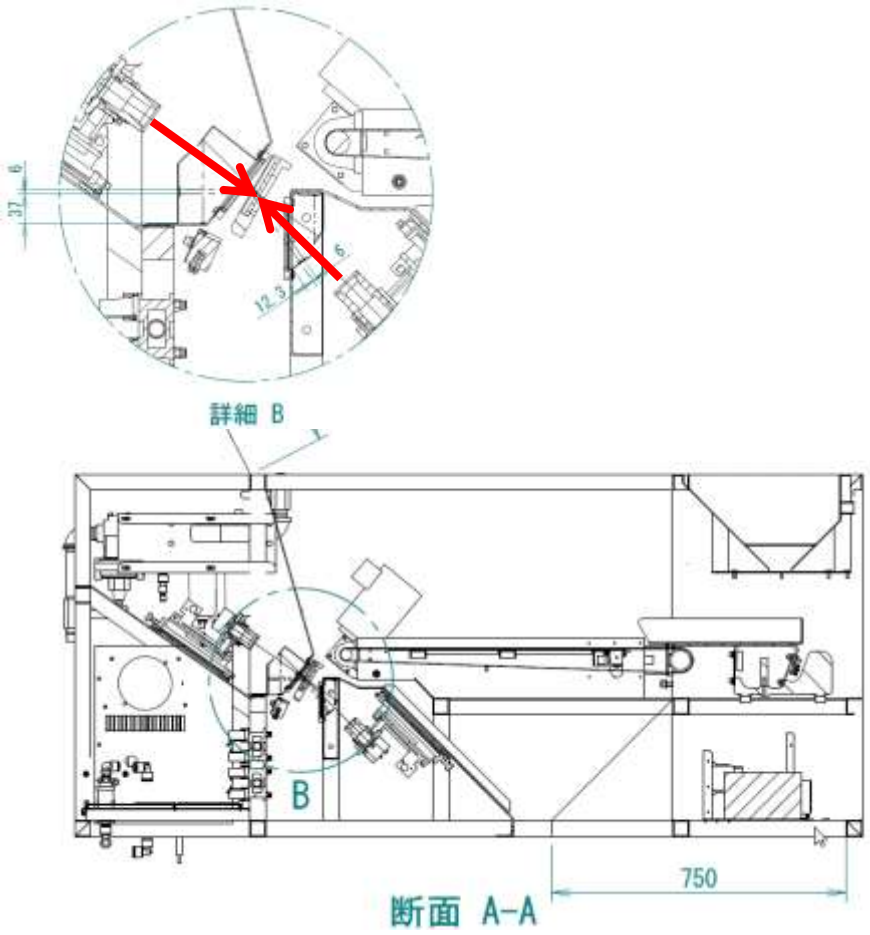
50% sorting efficiency (1st pass) + 50% sorting efficiency (2nd pass) gives 75% sorting efficiency MAX theoretically.

New Model

PCS600BDS

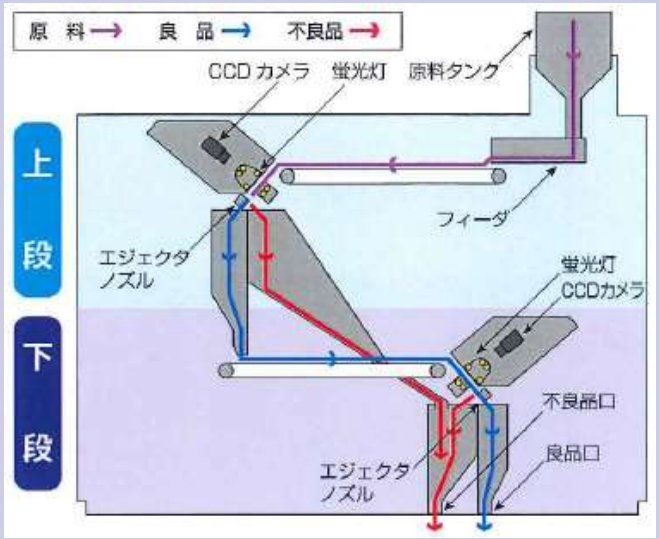
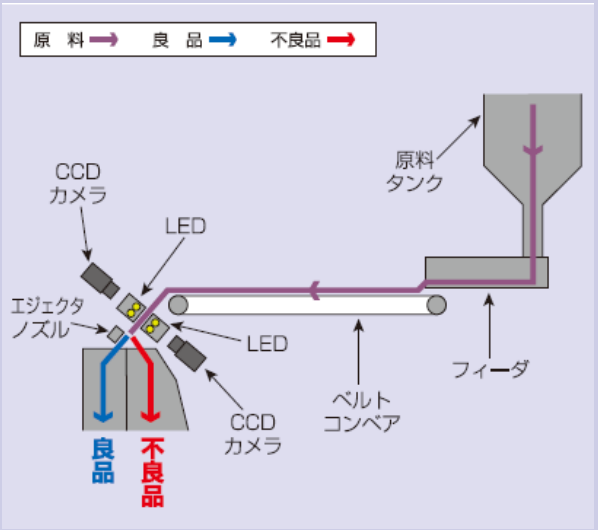
Both sides view 1pass system

Specification of PCS600BDS

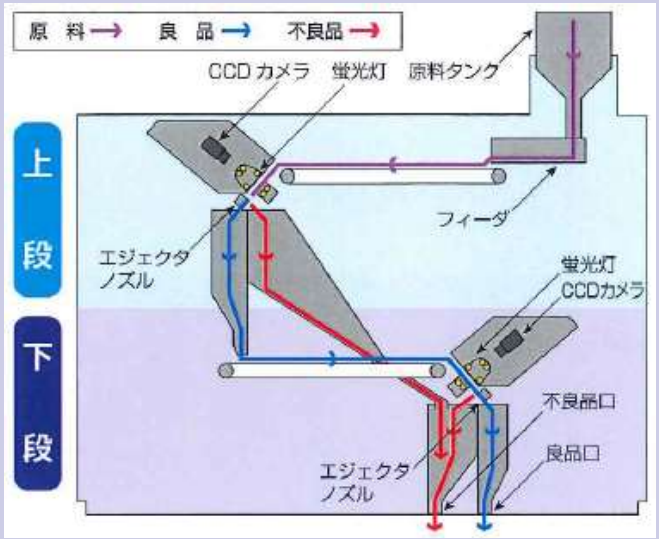
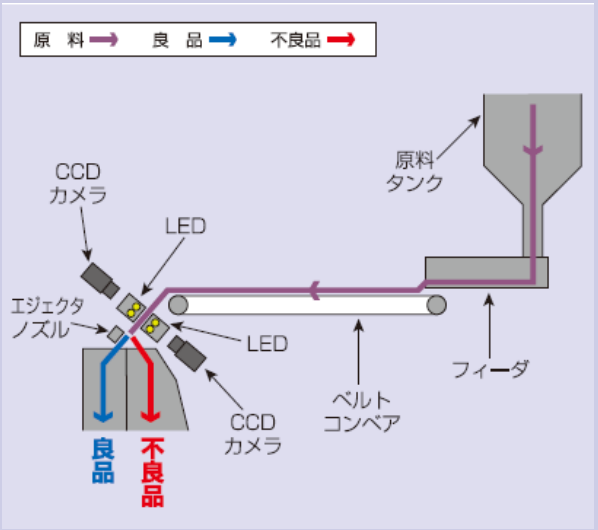
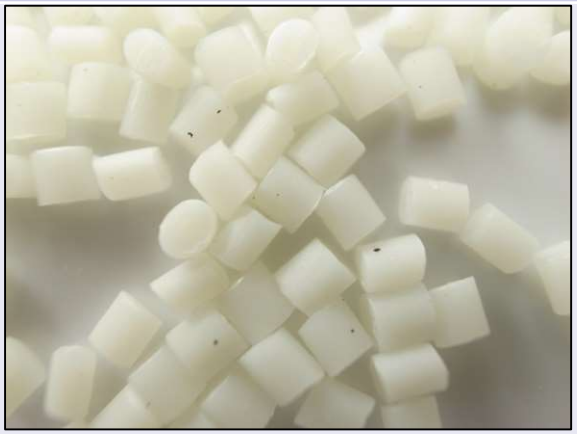


Camera	Monochromatic
Resolution	0.06×0.06mm
Lighting	Blue LED
Ejector	5mm pitch×120
Belt width	600mm
Power	200V Single phase
Size (W,D,H)	1750*1388＊1388
Option	White LED Additional Ionizer Tank shutter

Specification of BFD and BDS

	PCS600BFD	PCS600BDS
Structure		
Spec.	One side view, 2 Pass	Both sides view, 1 Pass
Target	Transparent	Non-Transparent (Opaque)
Feature	Minimize shadow effect	Both sides detection

Specification of BFD and BDS

	PCS600BFD	PCS600BDS
Structure		
Target		

Detection Principle

Two Types of Defect Sensitivity:

1. Speck Sensitivity: To detect small black specks
2. Area Sensitivity: To detect whole or mostly discolored pellets.
   Sensitivities can be used simultaneously (together).