

All-In-One Mold Protection Device

The industry's first digital color image processing technology to reduce costly mold repair expenses and downtime.*

Comet's PE-600, next generation all-in-one mold protection device brings new features to protect your complex, expensive molds from catastrophic mold damage. Unlike other mold monitors using conventional monochromatic images, the PE-600 adopts full-color digital image processing.

This advanced color technology, unique to the PE-600, brings functionality and simplicity to a whole new level while improving the accuracy of detecting defective parts, parts trapped in the mold, jammed or broken core pins, shorts and flash, and is more consistent in finding defects than manual inspection by operators. The PE-600 also provides a database that stores inspection data, including images, so you can review previous cycle information when trouble occurs.



- Broken core pins & plugs
- Insert loading errors
- Molded parts left in the cavity
- Both positions of the slide core and top pin centering
- Metal die casting errors
- Simple image inspection

Features

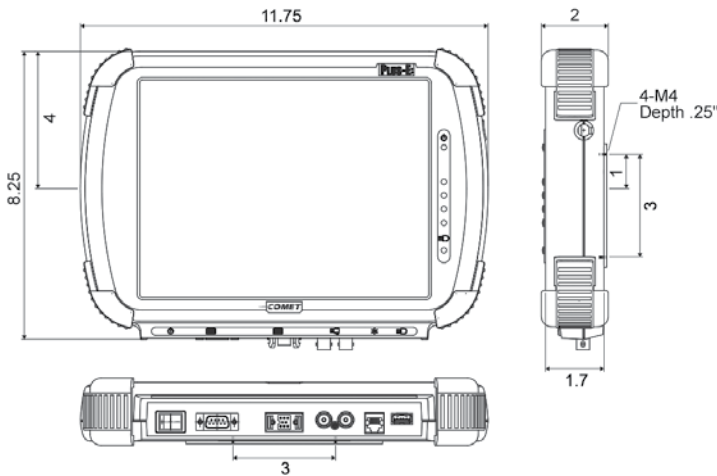
- **Color Image Processing:** Reduces errors caused by outside light, illumination reflection, mold shadows, and resin residue.
- **User-Friendly:** Large color touch screen (10.4") makes it easier to monitor mold and significantly improves operational performance.
- **Increased Productivity:** Digital data processing speed of 0.012 seconds plus original image processing technology. Adaptable even for high-cycle injection molding with cycle times below one sec.
- **Easy Operation:** Automatic setup and condition settings using the simple touch screen display.
- **Lightweight:** Weighing only 3 lbs., allows you to operate the unit with one hand while setting parameters or monitoring the screen with the other.
- **Precise:** The highly accurate camera and 1920 x 1080 pixel display enables precise monitoring of even the smallest molded parts and the most intricate mold details.
- **Stable Monitoring without Malfunction:** Unique compensation technology minimizes external light interference and machine vibration, preventing unexpected minor failures even when precision molding.
- **Two-Camera Monitoring:** One unit can handle up to two cameras to monitor both the detail of multi-cavity small parts while also monitoring large-size molded parts.
- **Patented External Data Storage:** Easily store the setting conditions of each mold, monitor log data and capture NG images for later viewing from a CF card. At your convenience, analyze the data and images to attain solutions for molding problems right on your PC.

*According to our investigation as of June 2016

Specifications

Resolution	1920 x 1080 pixels
Image Processing Time	0.012 seconds
Display	10" SVGA color LCD touch panel
Synchronous Input/ Output Signal	No voltage contact signal
I/O Interface Signal	No voltage contact signal
Re-ejection	Standard
Two-Camera Monitoring Protection	Standard
Power Source	24V DC <i>single phase</i>
Power Consumption	24W
Ambient Temperature	32 ~ 93° F (0 ~ 45°C)
Ambient Humidity	85% max. <i>without condensation</i>
External Dimensions (in)	11.7w x 8.25h x 2d <i>excluding projections</i>
External Dimensions (mm)	298w x 210h x 49d <i>excluding projections</i>
Weight	3 lbs. (1.4kg)

Dimension Drawing



Configuration

Standard	Options
Main Unit	Various Lens
CMOS Camera	Various Filters
I/O Unit	LED Lighting Set with Dimmer Function
Camera Cable	Infrared LED Lighting Set
Camera Stand	LED Lighting Set
Camera Mounting Shaft	USB Memory
Interface Cable	Camera Stand (L)
I/O Cable Set	
Stylus Pen <i>with mounting code</i>	



Main Unit



Wide / Zoom Lens



CMOS Camera



Various Lighting Sets



I/O Unit



Connecting Example for Standard Set