PE-600

COMET
PLASTIC EQUIPMENT, LLC

All-In-One Mold Protection Device

The industry's first* digital color image processing technology... reduces costly mold damage, production downtime, and prevents the outflow of defective parts.

Comet's PE-600 is the industry's first mold protection device to use *full color digital image processing technology* to protect expensive molds from damage. Unlike conventional monochromatic image processing, digital color processing will reduce errors caused by outside light, reflections from shiny mold surfaces, shadows on the mold, residual resin, etc. It will also improve the accuracy of detecting defective parts, parts trapped in the mold, jammed or broken core pins, shorts and flash, and consistently find defects missed by visual inspection from the machine operator.

The next generation PE-600 has a larger touch screen and automatic setup making it easier than ever to monitor molds. When trouble occurs, a database stores the inspection data and images for later review. Even high-cycle injection molding can benefit from the PE-600 because digital processing speed is only 0.012 seconds.

- **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**
- **Residue on the mold.**

Features

- **Color Image Processing:** Reduces errors caused by outside light, light reflection, mold shadows, and resin residue.
- **User-Friendly:** Simple to use, intuitive color touch screen (10.4") makes it easier to monitor molds and significantly improves operation performance.
- **Increased Productivity:** Digital processing data speed of 0.012 seconds plus original image processing technology. Adaptable even for high-cycle injection molding with cycle times below 1 second.
- **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 monitoring details of multi-cavity small parts while also monitoring large-size molded parts.
- **Patented External Data Storage:** Easily store setting conditions for each mold, record data, and capture monitored images for later viewing from a USB drive. At your convenience, you can then analyze the data and images to attain solutions for molding problems right on your PC.

*According to our investigation as of June 2016

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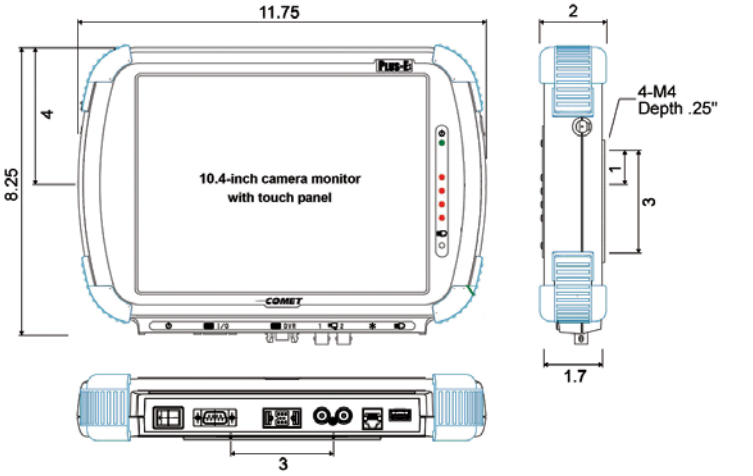
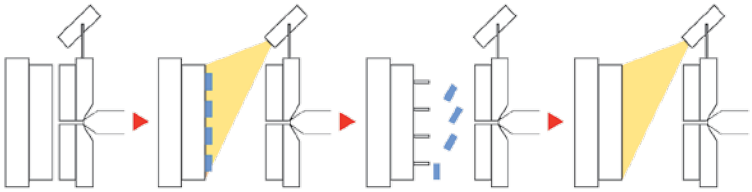
Specifications

Resolution	1920 x 1080 pixels
Image Processing Time	0.012 seconds
Display	10.4" SVGA color LCD touch screen
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 *single phase*
Power Consumption	24W
Ambient Temperature	32 ~ 93° F *(0 ~ 45°C)*
Ambient Humidity	85% max. *without condensation*
External Dimensions (in)	11.75w x 8.25h x 2d *excluding projections*
External Dimensions (mm)	298w x 210h x 49d *excluding projections*
Weight	3 lbs. (1.4kg)





Configuration

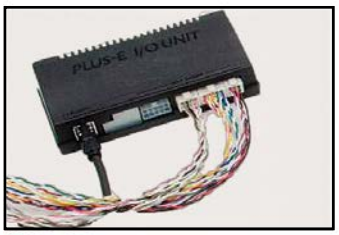
Standard	Options
PE-600 Main Unit	Various Lenses & Filters
CMOS Camera	LED or Halogen Lighting Set for high-intensity lighting
I/O Unit	Infrared LED Lighting Set to reduce ambient light impact
Camera Cable	Dimming Lamp Set
Magnetic Camera Stand	Additional Camera Set for two camera monitoring
Camera Mounting Shaft	USB Memory
Interface Cable	Camera Stand (L)
IF & I/O Cable Sets	
Stylus Pen	

PE-600 Main Unit


Wide Angle & Zoom Lenses


CMOS Camera


Halogen & Infrared Lighting Sets



I/O Unit

Connecting Example for Standard Set

COMET
PLASTIC EQUIPMENT, LLC
7655 Enterprise Dr., Suite A3
Riviera Beach FL 33404
800-328-5088
Fax: 561-841-0044

www.cometpe.com