

Photonic

Cleaning Technologies

DIGITAL IMAGING and FIRST CONTACT™

FIRST CONTACT™ Polymer Solution is the first strip coat cleaner in the world that safely cleans all components of a digital imaging system. FIRST CONTACT™ solution follows surface contours, dissolves organic contaminants and encapsulates particulates as it dries to a robust film. Peeling the polymer film renders component surfaces pristinely clean! The polymers in FIRST CONTACT™ have been tested and evaluated by independent laboratories using many techniques.

FIRST CONTACT™ POLYMERS:



The Cleaning & Protection System

- ◆ Physically protect optics from airborne contaminants and accidental contact.
- ◆ Remove fingerprints (skin oils).
- ◆ Leave optical thin films intact on filters and lenses.
- ◆ Clean off contaminants and nano-particulates.
- ◆ Leave no residue.
- ◆ Remove residue from treatments using other products or chemicals.

PRODUCT

FIRST CONTACT™ Polymer Solution was developed over years by careful research; now it is available as a one-part solution that is ready to use right from the bottle.

The product consists of designer polymers in a complex solvent system. FIRST CONTACT™ adheres strongly to itself and particulate contaminants, but has minimal adhesion to optical surfaces. The solution dries to a flexible film and peels off easily, leaving an amazingly clean surface.

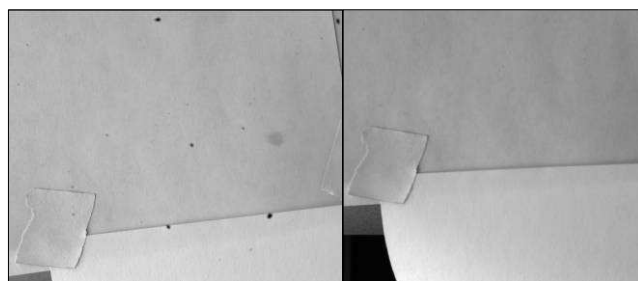
The solvent system has been carefully developed to work with mirrors, highly polished surfaces, and coatings. The carefully selected solvents dry at a controlled rate to avoid thermally shocking the surface. The system is quite safe, utilizing common solvents like ethanol and acetone.

FIRST CONTACT™ cleans filters, lenses, CCD and CMOS chips, protected as well as not protected, and many materials that are important to research and commercial scientists like optical glass, Si, Ge, ZnSe, NaCl, KBr, KRS-5, thin films including AR and reflective coatings, crystals, and non-linear crystals like coated BBO – even diffraction gratings! Smooth or rough surfaces, flat or curved surfaces can be cleaned safely, easily, and completely with FIRST CONTACT™ because the fluid solution conforms to any surface but the polymer film releases easily to remove particulate and organic contaminants, including nano-scale contamination.



CLEANING

The polymers have been tested over and over again to show they remove contaminants but not optical thin films or metal substrates. These studies, including work done at JPL, NASA Goddard Space Flight Center, and other prestigious institutions, attest to the FIRST CONTACT™ polymer's ability to clean precision surfaces without leaving residues on the treated surface.



DIGITAL IMAGING SYSTEM BEFORE (left) AND AFTER (right) CLEANING WITH FIRST CONTACT™ POLYMER SOLUTION

NO SCRATCHES

In addition to leaving surfaces optically clean, FIRST CONTACT™ Polymer Solution cannot scratch your optic. The liquid solution can be sprayed on, poured on, dropped on, or brushed on the optic; nothing ever touches the surface except liquid FIRST CONTACT™ Polymer Solution. There is no way to scratch the substrate! Completely safe when properly applied regardless of the contaminants.

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