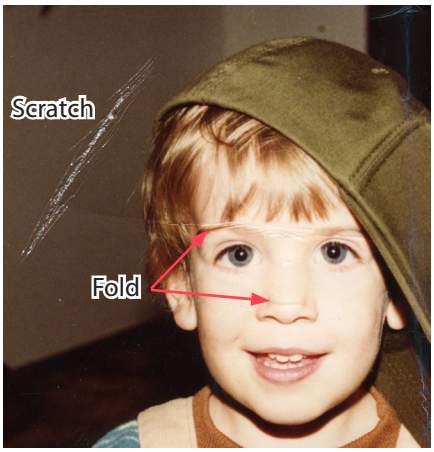
What is DIGITAL ICE™ technology?

DIGITAL ICE technology from Applied Science Fiction™ (ASF™) is a scanner feature that combines hardware and software to remove dust and scratches on film and remove tears, folds, creases, and deep scratches on photos.

Did You Know?

- DIGITAL ICE for Film uses an infrared channel along with the usual red, blue, and green channels to detect dust, scratches and fingerprints on the film surface.
- DIGITAL ICE for Photo Prints uses two lamps at different angles to examine the photo for defects on the surface such as tears, folds, creases, and deep scratches.
- Once the film or photo defects have been detected and mapped out, DIGITAL ICE in the Epson Scan TWAIN driver repairs the defects in the final image data.

Color photo before DIGITAL ICE



Color photo after DIGITAL ICE

Some of the things to be aware of when using DIGITAL ICE technology:

- DIGITAL ICE for Photo Prints:
  - Can be used with 50 to 1200 dpi.
  - Does not detect tape, finger prints, and pen or marker ink since these appear as part of the image, not as surface defects.
  - Should not be used for printed items such as magazines.
- DIGITAL ICE for Film:
  - Supports chromogenic (dye-based) black and white film.
  - For best results, don't use with Kodachrome film or conventional black and white negative film.
- DIGITAL ICE gives you high correction quality in the scanned image; however, this requires significant system resources and scanning time. The following table illustrates this increase in scan time:

Image	Resolution (dpi)	Without DIGITAL ICE	With DIGITAL ICE
4 x 6 inch photo	300 dpi	10 seconds	1 minute, 40 seconds
35mm slide	2400 dpi	1 minute	8 minutes, 22 seconds
35mm negative	2400 dpi	1 minute, 30 seconds	10 minutes, 20 seconds