

HP UV/IR Invisible Ink Print Cartridge



The HP Q7485A UV/IR invisible ink print cartridge improves document appearance by providing a way to print control codes that are invisible to the human eye yet remain machine-readable.



Features

HP designed the UV/IR invisible ink print cartridge for high-speed document production applications that use codes to customize printing services or to verify and match content. The Q7485A print cartridge enables businesses to produce customized documents without the need for unsightly visible barcodes. Invisible coding can be easily and inexpensively repositioned or printed in multiple locations while still preserving the look and feel of the original document.

The ink contains ultraviolet (UV) and infrared (IR) dyes, which fluoresce when exposed to UV or IR light sources. The ink is visible to the human eye only when it is illuminated with a UV light source. IR dyes can be machine-read using a laser scanner or camera system. The UV/IR invisible ink print cartridge is designed for use in applications where high-quality, low-visibility markings are required. Non-contact, drop-on-demand inkjet technology delivers reliable and accurate printing.

Benefits

The HP Q7485A UV/IR invisible ink print cartridge:

- Increases security. For example, documents can have

invisible watermarks to identify them as originals or key text fields can be overprinted to detect any alteration.

- Prints over normal toner text areas. For example, a barcode image is captured between print lines, allowing for machine readability with no unsightly barcodes.
- Frees up valuable media real estate and improves media appearance by eliminating issues associated with visible codes.

Using UV/IR invisible ink provides unparalleled flexibility with printing, handling and inserting equipment. Invisible control codes provide 100 percent verifiable assurance that the right content has been printed and sent to the intended recipient. These codes also enhance privacy and security of customer information.

Why choose HP?

HP is the worldwide leader in imaging and printing technologies. We bring our innovative, reliable, environmentally friendly and easy-to-use solutions to a variety of industrial markets. As pioneers of thermal inkjet printing, HP knows the technology inside and out.



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Frequently asked questions

Who are the intended users of the Q7485A? The Q7485A UV/IR invisible ink print cartridge is designed to meet the needs of high-output production companies that require reliability, security and flexibility.

Why have both UV and IR components in the ink? Having both UV and IR components in a single ink provides:

- **Convenience.** Operators can easily verify printing with an inexpensive black light.
- **Media flexibility.** On a media with extensive UV brighteners, the UV signal cannot be detected easily, but the IR signal can still be read reliably.
- **Equipment flexibility.** Ink can be machine-read by either UV or IR equipment.
- **Security.** UV/IR components help provide two levels of protection.

What are the general media recommendations?

- High-quality offset bond, standard office papers and standard envelope-grade materials
- Media brightness ranging from 84 to 96
- Basis weight: 75 grams per square meter and above

What are the advantages of HP Thermal Inkjet (TIJ) Technology?

- **Cost-effective.** Requires no warm-up cycle and no downtime. When it's time to replace a print cartridge, replace only the one that's needed.
- **Easy to use.** No special training is required to operate and maintain thermal inkjet printers. The print cartridge design allows it to be snapped in and out for easy replacement.
- **Fast.** Hundreds of tiny nozzles firing at a high frequency allow high-quality printing at high speeds.
- **Reliable.** TIJ is less sensitive to air bubbles in the firing chamber than other printing technologies, avoiding print quality problems and delays caused by trapped air.
- **Flexible.** Supports a wide variety of media.
- **High quality.** TIJ places smaller drops more accurately, producing consistently superb image and text quality.
- **Environmentally safe.** With thermal inkjet technology, there is no need for service technicians qualified to handle volatile solvents and no noxious fumes.
- **Lower cost of ownership.** A thermal inkjet printer can cost tens to hundreds of thousands of dollars less than other printing equipment, reducing the market entry cost.

Technical specifications

P/N	Q7485A
Ink type	Dual wavelength invisible dye-based aqueous ink
Resolution	600 dpi
Nozzle count	300
Print swath	0.5 in.
Maximum firing frequency	12 kHz
Avg. drop volume	24 pl
Avg. delivered ink (ccs)	40 ccs
Number of electrical interconnect pads	52
Operating conditions	10 to 40° C, 10 to 80% RH
Shipping/storage conditions (in original packaging only)	10 to 30° C, 5 to 80% RH Altitude: 0–5000 meters Orientation: nozzle up or side

Contact information

To discuss inkjet technology OEM opportunities with HP:

- Go to www.hp.com/oeminkjet and send us an e-mail message.
- Call 858-655-3524 and leave a voicemail message.
- Mail your inquiry to: Hewlett-Packard Company, Specialty Printing Systems, Mailstop 66-654, 16399 West Bernardo Drive, San Diego, CA 92127, USA.