

The Evolution of Archiving

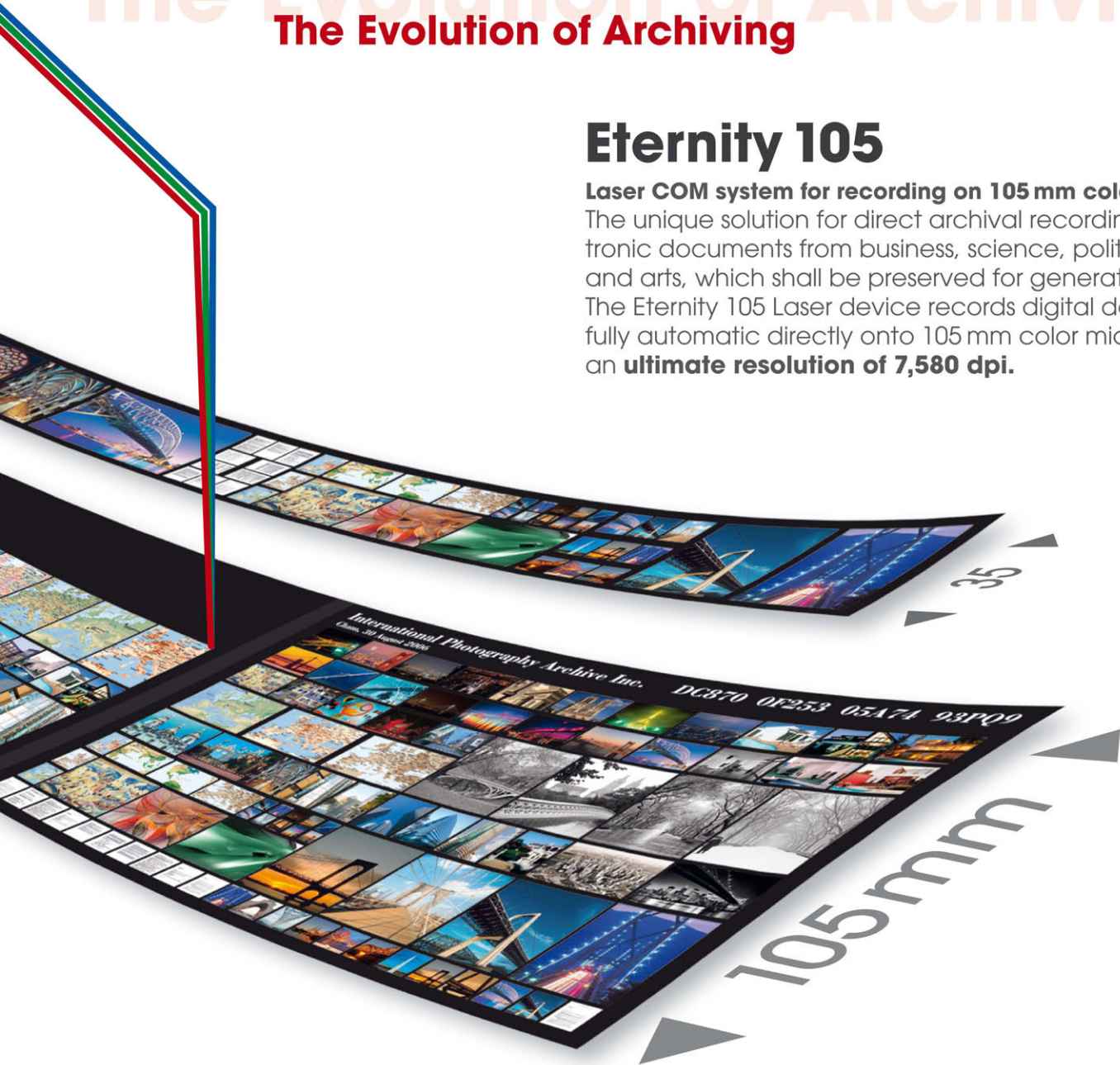
The Evolution of Archiving

Eternity 105

Laser COM system for recording on 105 mm color microfilm

The unique solution for direct archival recording of electronic documents from business, science, politics, culture and arts, which shall be preserved for generations.

The Eternity 105 Laser device records digital documents fully automatic directly onto 105 mm color microfilm with an **ultimate resolution of 7,580 dpi**.



Before recording on the Eternity 105, the digital documents containing text, photos, drawings, etc. are prepared to optimally fit onto the microfiche format of 105 x 148 mm. Thanks to the superb recording density, one single color microfiche offers a storage capacity of 3.6 GByte for digital data corresponding to 200 A4 color pages with an original 240 dpi without compromise in quality.

The Eternity 105 is very productive and records up to 12 microfiches per hour hence providing safe archiving of as much as 60'000 A4 color pages per day.

Long-term archiving of documents

Part of the huge amount of digital data generated every day has to be archived for decades due to legal reasons or has to be preserved for centuries and for future generations. Unfortunately, the readability and lifetime of electronic storage media is limited to 5 to 10 years. In clear contrast, the color microfilm has a lifetime of up to 500 years and its content remains readable with simple optical means such as a scanner. The microfiche format of 105 x 148 mm has proven its suitability and longevity for archiving over decades long before the era of computer technology.

Recording technology

The Eternity 105 is the first Laser COM system for direct recording of digital documents onto 105 mm color microfilm. Its revolutionary technology ensures best recording quality and productivity. The new color calibration method ensures optimum color reproduction on the microfilm.

Operation at customer's site

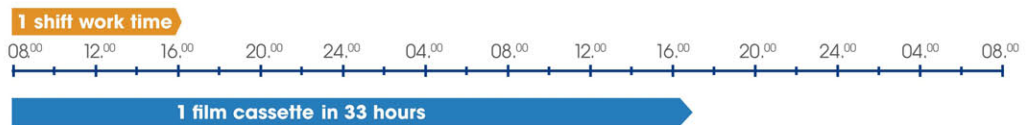
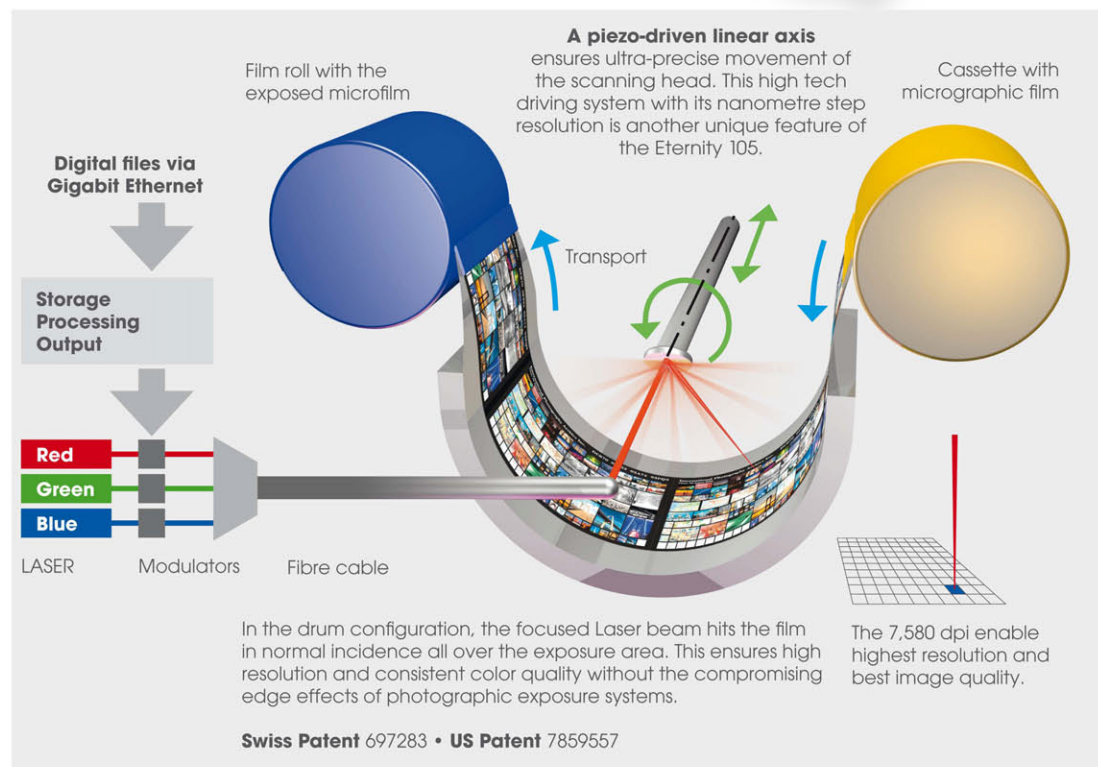
The Eternity 105 is connected to customer's local network via Gigabit Ethernet connection and operates similar to a high end Laser printer. The Gigabit Ethernet connection ensures high enough data rate to feed the system with a stream of digital files for recording.

Layout of microfiches

On separate work stations the electronic documents are prepared and combined to fit onto the fiche format of 105 x 148 mm. Every final digital file of 3.6 GByte is dedicated for recording onto one color microfiche.

Productivity

The 60 m microfilm cassette enables recording of 400 microfiches without reload, hence enabling autonomous recording of 400 microfiches during 33 hours of operation of the Eternity 105.



Technical Data

	Eternity 105	Eternity 35
Film cassette	105 mm x 60m	35 mm x 30m
Frame Size	140 x 100 mm (microfiche)	32 x 45 mm
Number of Pixels	29'860 x 41'800	9'550 x 13'430
Speed	12 microfiches per hour	72 frames per hour
Connection	Gigabit Ethernet (16bit/s)	
File format	TIFF 6.0 (other file formats on request)	
Technology	LASER, RGB (3 x 10 bit)	
Resolution	7'580 dpi	
Colors	Adobe RGB, 3 x 8bit	
Weight	440 kg	
Dimensions	1'200 x 1'915 x 750 mm	



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