



{ BnF

## IFLA International Newspaper Conference

**“Newspaper Digitization and Preservation.  
New prospects.  
Stakeholders, Practices, Users and Business Models”**

**11-13 April 2012  
BnF, Paris**

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50  
Jahre Zeutschel  
1961  
2011

**ZEUTSCHEL**

*Die Zukunft der Vergangenheit.  
The Future of the Past.*

# COM Technology today

Microfilm – a discontinued model  
or still state-of-the-art ?

## An International Overview

Jörg Vogler

President of Zeutschel GmbH



# Zeutschel Company Mission

The Zeutschel GmbH is for 50 years now a worldwide leading company in development, manufacturing and sales of digital and analogue document storage systems, especially for libraries and archives. The clientele are national archives, national libraries and leading university libraries in more than 100 countries.



**From 1961  
until today**

Complete solutions for microfilm storage systems

**1993**

Introduction of the first book scanner solutions

**Today**

The leading manufacturer of book scanners and overhead scanning solutions with annual more than 1000 new installations worldwide

Continuing to offer microfilm storage solutions in archives and libraries as an alternative low cost long-term preservation solution



# **Microfilm – a discontinued model or still state-of-the-art ?**

**Microfilm – the best proven risk management solution**

**Microfilm – guarantees long term preservation  
– safe and cost effective (still today 1/3rd of  
digital storage solutions)**

**COM-Systems/ArchiveWriter** give microfilm still  
today a world wide acceptance as a safe and  
proven long-term preservation solution

- These days, our world is digital
- Google, Facebook, Twitter are our standard tools for communication and research
- E-News, E-Books register most growth rates
- Digital preservation has become true

But if highest possible data security is requested, at reasonable prices, still today microfilm is an attractive solution for best risk management.

# Microfilm market trends

Especially in industry and government institutions with a high importance on risk management the microfilm is still in use - mostly 16 mm or 35 mm microfilm.

- National and State Libraries and Archives
- Industry such as Chemical-, Power Stations-, but also Car industry
- Administrations

# Microfilm market trends

## Brands:

for b&w camera and ArchiveWriter microfilm

- KODAK Imagelink HQ Microfilm for microfilm cameras and archive writer systems
- KODAK Archive Media - 16mm silver microfilm for Kodak Archive Writer
- Fuji Super HR Microfilm
- Agfa Copex HDP 13 or HDP 10



# Microfilm market trends

## Brands:

for color microfilm for camera and ArchiveWriter

- ILFOCHROME CMM F4 or CMP F4 for camera
- ILFOCHROME CMD F4 for ArchiveWriter OP 500
- Fuji Color Microfilm R II ISO 100

# Microfilm market trends

All 4 manufacturers guarantee the availability of b&w microfilm as well as color microfilm

They reduced the different length and sensitivity of microfilm and focus today to camera microfilm and ArchiveWriter microfilm

The market volume has a slight decrease annually worldwide since many years but the volume is still high and all companies make profit with the production of microfilm

# ArchiveWriter solutions – "writing" onto microfilm



Today the "state of the art" technology for highest quality microfilm from the digital image

## First scanning

- Color and b&w originals without a loss of information
- Instant quality control of the digital result
- Win-win situation
- Quickly available for research
- Easy conversion – "writing" onto microfilm for long-term preservation

# ArchiveWriter solutions – "writing" onto microfilm



- Automatic writing of the digital images onto microfilm
- With the automatic quality control of resolution and film density
- All in accordance to the international microfilm standard for the microfilm camera systems i.e. 120 lp/mm and density 1.0 +/- 0.1
- Easy to produce with the same proven type of master film as used for traditional microfilm cameras
- Batch mode without operator
- Up to 2400 images per hour

# ArchiveWriter solutions – "writing" onto microfilm

## Benefits:

- Easy 2nd original without any loss of quality
- Higher sensitivity/density contrast compared to direct microfilm
- Also color microfilm production is now easy
- But pricing still more expensive than b&w

# Brands for ArchiveWriters 35 mm and 16 mm roll film

- |                    |                                |
|--------------------|--------------------------------|
| OP 500             | - Zeutschel GmbH               |
| Polycom            | - Microbox<br>(only 35 mm b&w) |
| SMA51              | - SMA eDocument                |
| ArchiveImageWriter | - Micrographic Data            |

# ArchiveWriter OP 500



With more than 100 installations worldwide, we are definitely a little proud, to offer the actually mostly used ArchiveWriter for 35 mm and 16 mm microfilm, because it exclusively has

- Microfilm output of  $>120$  lp/mm
- Even density  $1,0 \pm 0,1$  d
- Output in b&w, grayscale as well as color

# ArchiveWriter OP 500



## Guarantees

- Highest quality results  
Also from A0 / A1 size documents such as
  - Newspapers
  - Maps
  - Drawings
- Re-digitization at any time



# ArchiveWriter Projects

Newspapers have been plotted with the OP 500 on microfilm respectively will still be plotted in countries like Finland (Comellus project), Switzerland (Neue Züricher Zeitung), China, India, Korea, USA, Russia and others more.

# ArchiveWriter Projects

Projects for Archiving of books, manuscripts, maps and drawings are still executed in countries like

**Germany** - Various cultural heritage projects, also on color microfilm

**Switzerland** - Cultural heritage projects and industrial projects, among others Swiss Post, Power Plant Gössen, Pharmaceutical Industry Applications

**Austria** - State Library of Graz

# ArchiveWriter Projects

**Finland** - Various cultural heritage and library projects

**Turkey** - Ministry of National Defense

**USA** - Louisiana State University, US Senate, State of New Jersey Archives

**Poland** - Biblioteka Jagiellonska Krakowie

**Russia** - National Archive

**Brazil** - Cultural heritage projects

# ArchiveWriter Projects

**Colombia** - National Archive

**PR China** - National Library

**Singapore** Various cultural heritage projects

**Japan** - Library projects and also industry applications, among others company Nikon

Further projects worldwide also in Netherlands, Sweden, Spain, France, Vatican, Greece, Belgium, Vietnam, Korea, Oman.

## About Zeutschel

Zeutschel GmbH is based in Hirschau near Tübingen and is a leading specialist provider in the field of cultural possession protection and has been supplying devices, solutions and systems for document and archive management for more than 50 years. With 60 members of staff, Zeutschel develops, produces and distributes scan systems, soft- and hardware solutions such as Campus software, delivery service software, image analysis software, capturing software as well as microfilm systems, hybrid systems and reading devices. Zeutschel's solutions and systems are used throughout the world by libraries, archives, universities, land registries and commercial enterprises.

# Products

- Scan Systems
- Book Copier Systems
- Software Solutions
- Hybrid Systems
- Microfilm Camera Systems
- Microfilm Plotter Systems
- Film Scanning Systems
- Microfilm Reader



**OSCAR**  
OMNI Software for Connected Applications and Resources





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# Thank you for your attention

