

## Online Resources – Ressources en ligne – Recursos en Internet

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## **1.0 General Audiovisual Resources**

### **Ressources audiovisuelles**

### **Recursos audiovisuales**

EN – [FIAF E-Publications: Glossary of Technical Terms](#)

Glossary of mainly film terms, particularly relating to laboratory technology

EN – [National Film and Sound Archive, Australia: Glossary of Audiovisual Terms](#)

EN – [Society of Motion Pictures & Television Engineers \(SMPTE\)](#)

EN – [Danish Film Institute: Articles on film archives and film archiving](#)

From *Preserve then Show* (DFI, 2002).

## **2.0 Film**

### **Film**

### **Film**

## **2.1 Film Technology General**

### **Technologie filmique**

### **Tecnología fílmica**

EN – [Brian Pritchard: Resources on formats, gauges, colour systems, film printing, laboratories etc.](#)

A treasury of useful historical data.

EN – [Tim Vitale: Vitale Art Conservation and Digital Imaging](#)

Includes pdf downloads Brief History of Imaging Technology; Estimating the Resolution of Historic Film Images: Using the Resolving Power Equation (RPE) and Estimates of Lens Quality; Film Grain, Resolution and Fundamental Film Particles.

EN – [Kodak, Basic Photographic Sensitometry Workbook, Kodak Publication H-740](#)

### **2.1.1 Gauges**

#### **Formats**

#### **Formatos**

EN – [Introduction to film gauges](#)

by Jan-Christopher Horak published in 2000 by UCLA Archive.

EN – [The American Wide Screen Museum](#)

Website dedicated to large format systems. Very complete information with drawings useful for identification.

EN – [The Australian Museum of Motion Picture and Television: 17.5mm film](#)

Text about 17.5mm film with some useful illustrations for identification. A presentation by Ian Stimson from August 2011.

FR – [Les formats cinématographiques](#)

Basique mais quelques liens et orientations bibliographiques. Page de l'Université de Nancy-Metz. (Auteur: Xavier REMIS, Professeur d'histoire et géographie, Enseignant en cinéma (option CAV) au lycée Henri Poincaré. Nancy)

ES – [Manual básico de técnica cinematográfica y dirección de fotografía](#) de J. Martínez Abadía y J. Serra Flores. Versión Pdf del libro publicado por Paidós (Papeles de Comunicación 32) en 2000. Varios aspectos de técnica cinematográfica. Parte bastante buena sobre los formatos.

EN – [3D Film Archive](#)

EN – [Imax 101 and Technology](#) (Blog 1)

and [Imax 101 and Technology](#) (Blog 2)

### **2.1.2 Colour** **Couleur** **Color**

EN – [Timeline of historical film colours.](#)  
Detailed information on film colour systems.

EN – American Widescreen Museum: [Early Colour Processes](#)

EN – Kodak: [Exploring the Color Image](#)  
Kodak publication H-188,

DE – Hans J. Wulff: [Farbe. Eine Arbeitsbibliografie.](#)  
Christian-Albrechts-Universität zu Kiel – Medienwissenschaft, 1999.  
Bibliography (Go to index on webpage).

EN – [Chemical Database](#)  
Useful alternative to Dye Indices listing alternate dye names

EN – [The Davide Turconi Collection Database](#)  
Online visual database of 23.491 nitrate film clipping, many of them  
evidencing applied colour (tinting, toning, hand- or stencil-colouring)

EN – Brian Pritchard: [Tinting and Toning](#)  
Includes full texts of Kodak tinting and toning publications

EN – [The Schlemmer Collection](#)  
Online visual database of 2254 nitrate film clipping, many of them  
evidencing applied color

EN – [SMPTE: Elements of Color in Professional Motion Pictures \(1957\)](#)  
(Internet Archive)

### **2.1.3 Sound** **Son** **Sonido**

EN – [Audio Engineering Society, Historical Committee](#)  
Includes resources on audio engineering history, audio preservation, and  
motion picture sound.

EN – [E W Kellogg: History of Sound Motion Pictures](#)  
from SMPTE Journal (1955)

DE – [Hans J. Wulff: Sound. Eine Arbeitsbibliographie](#)  
Christian-Albrechts-Universität zu Kiel – Medienwissenschaft (1999).  
Bibliography

### **2.1.4 Film Identification** **Identification de supports cinématographiques** **Identificación de soportes cinematográficos**

EN – [Brian Pritchard: Tool for identifying motion picture film](#)

Interactive form which guides the user through a series of steps towards an identification. This site also has Date Code charts under its 'Technical Section'.

EN – [Association of Moving Image Archives \(AMIA\): Date codes](#)  
Date Code Charts for Eastman Kodak and Dupont Film – Codes Eastman Kodak et Dupont – Códigos Eastman Kodak y Dupont. (Access requires AMIA membership.)

EN – AMIA: [Identifying and Handling Nitrate Film](#)

EN – [National Film and Sound Archive \(Australia\): Film identification](#)  
Chapter of the preservation handbook on film identification.

EN – [Kodak: User guide to Keycode for 16mm film](#)  
Kodak KeyCode for 16mm films.

EN – Kodak: [Keycode Specification for 35mm film](#)  
Kodak KeyCode for 35mm camera and intermediate films. Published in 2002.

EN – [Kodak: Keycode ID table](#)  
Kodak Keycodes for films manufactured between 1989 and 2016, identifying the year of production and the emulsion type.

EN – Kodak: Chronology of Motion Pictures products by Kodak.  
[1889-1939](#)  
[1940-1959](#)  
[1960-1979](#)  
[1980-Today](#)  
Comprehensive chronology of Kodak motion picture films.

## **2.2 Film Handling, Storage and Preservation**

### **Conservation cinématographique**

### **Preservación cinematográfica**

EN – [Association of Moving Image Archives \(AMIA\): Publications and Resources](#)  
Film preservation mainly for home movie makers and television. Also Disaster recovery information. (Access to some documents requires AMIA membership.)

EN – [National Film and Sound Archive, Australia: Preservation Handbook](#)

EN – [The National Film Preservation Foundation: The Film Preservation Guide](#)  
The basics for archives, libraries and museum, published in 2004. (Downloadable pdf)

EN – [Image Permanence Institute: Resources](#)  
Recommendations of the Image Permanence Institute for storage of different kinds of media.

EN – [Image Permanence Institute: Calculators](#)  
Preservation calculator to estimate the life expectancy of film in different environments (plus link to Dew Point Calculator – see below)

EN – [Image Permanence Institute: Dew Point Calculator](#)

Tool to estimate the quality of the environment in film storage vaults.

EN – [Image Permanence Institute: Vinegar Syndrome: An Action Plan](#)

Article by Jean-Louis Bigourdan offering concrete actions in case of vinegar syndrome deterioration in a film collection.

EN – [Image Permanence Institute: Effectiveness of Storage Conditions in Controlling the Vinegar Syndrome](#)

Preservation Strategies for Acetate Base Motion-Picture Collections by Jean-Louis Bigourdan and James M. Reilly. Detailed study of the effects of the storage conditions on the advent of vinegar syndrome.

EN – [Danish Film Institute: Papers on film and sound conservation and preservation](#)

From *Preserve then Show* (DFI, 2002).

EN – [Kodak: Film Cleaning Solvents](#)

EN – [Kodak: Handling of Processed Film](#)

EN – [Kodak: Storage and Handling of Processed Nitrate Film](#)

EN – John R. Hill: [Stability of motion-picture films as determined by accelerated aging](#)

J. Res. Natl. Bur. Stand., Vol. 17, No. 6, p. 871 (1936) (Internet Archive)

EN – [Library of Congress: Care, Handling, and Storage of Motion Picture Film](#)

EN – [Charles Selwitz, Cellulose Nitrate in Conservation, The Getty Conservation Institute](#) (1988)

EN – [University of Washington, University Libraries, Film Preservation Manual](#)

EN – [Vitale Art Conservation and Digital Imaging](#)

Includes pdf downloads History, Science and Storage of Cellulose Acetate Film Base and History, Science, Preservation and Storage of Cellulose Nitrate Film

## **2.3 Equipment Appareils Aparatos**

FR – [Cinématographes](#)

Très bonne source d'informations sur les premiers appareils cinématographiques. Références très solides. Page du collectionneur Eric Lange. Lobster.

FR – [Fondation Jérôme Seydoux: Collections](#)

Base de données très bien fournie des collections de la Fondation Jérôme Seydoux – Pathé. Notices très détaillées.

## **2.4 Film Projection and Presentation**

### **Projection cinématographique**

### **Proyección cinematográfica**

EN – [AMIA : Theatre Presentation Guidelines \(2013\)](#)

## **3.0 Video and Digital**

### **Vidéo et Numérique**

### **Video y Digital**

### **3.1 Digital Technology**

#### **Technologie numérique**

#### **Tecnología digital**

EN – [JISC Digital Media](#)

UK-based resources on digitisation and digital preservation for higher education institutions.

EN – [JISC Digital Media: An Introduction to Digital Audio](#)

A beginners guide to digital sampling of analogue signals as applied to audio, from JISC Digital Media.

EN – [Demystifying Digital Camera Specifications](#)

A lecture on digital image capture by John Galt from Panasonic and Larry Thorpe of Canon to address common misunderstandings.

#### **3.1.1 Digitisation (general)**

#### **Numérisation (général)**

#### **Digitalización (general)**

EN – [FADGI : Federal Agencies Digitization Guidelines Initiative](#)

Guidelines, methods and practices for digitising historical content.

EN – [Audiovisual Preservation Solutions: Papers and Presentations](#)

A very useful set of papers ranging from a specification for potential suppliers for videotape digitisation, to how to adjust the azimuth when playing back audio tapes.

#### **3.1.2 Film Digitisation**

#### **Numérisation filmique**

#### **Digitalización fílmica**

EN,FR,ES – [FIAF E-publications: Film digitisation](#)

Choosing a film scanner, Setting up a digitisation workflow, Complications in a digitisation workflow.

EN – [AFRESA Project](#)

Digitization of Archival Film links

EN – [The ARRI Companion to Digital Intermediate](#)

EN – [ARRI Archive Workshop 2010](#)

[ARRI Archive Workshop 2011](#)

[ARRI Archive Workshop 2012](#)

[ARRI Archive Workshop 2013](#)

Annual workshop, websites include seminar documents for download (registration required)

EN – [Image Science Associates, Resource Center: Tutorials & Papers](#)

Cultural Heritage, Digital Camera and Scanner Performance

EN – [Image Trends](#)

Commercial supplier of 'Digital ICE' surface defect removal

EN – [Thor Olsen, Technical Papers and Publications](#)

Including Digital Film: Hiding the Raster and Digital Film 2: Good Grays and Continuous Colors, as well as Color Film Exposure in CRT Image Recorders

EN – [Quantel: The Digital Fact Book](#) (2008)

EN – [Quantel: Digital Film Supplement](#) (2006)

Edited by Bob Pank (Internet Archive capture)

EN – [Tim Vitale, Vitale Art Conservation and Digital Imaging](#)

Brief History of Imaging Technology and Digital Image File Formats and their Storage: TIFF, JPEG & JPEG2000. (Includes pdf downloads)

### **3.1.3 Scanner manufacturers**

#### **Fabricants de scanners**

#### **Fabricantes de escáneres**

EN – [Arriscan](#) from Arri

EN – [Flashtransfer Vario and Flashscan](#) made by MWA-Nova

EN – [Golden Eye](#) from Digital Vision

EN – [Northlight](#) from Filmlight

EN – [Scanity](#) from DFT.

EN – [SteadyFrame](#) from P+S Technik

### **3.1.4 Video and Audio digitisation**

#### **Numérisation image et son**

#### **Digitalización imagen y sonido**

EN – [PrestoCentre](#)

Presto Centre is a foundation that brings together a global community of stakeholders in audiovisual digitisation and digital preservation to share, work and learn. Some resources require membership.

EN – [IASA: Audio Digitisation](#)

International Association of Sound and Audiovisual Archives IASA-TC04 'Guidelines on the Production and Preservation of Digital Audio Objects'. Comprehensive information on audio digitisation.



### **3.2 Digital Preservation** **Préservation numérique** **Preservación digital**

EN – [OAIS Reference Model](#)

The full text of the Reference Model for an Open Archival Information System (OAIS)

EN – [Digital Preservation Coalition](#)

UK based coalition of organisations working in the digital preservation field.

EN – [PrestoCentre: Audiovisual preservation strategies](#)

Audiovisual preservation strategies, data models and value-chains by Matthew Addis and Richard Wright. (Business models and strategies).

EN – [AMPAS Science and Technology Council: The Digital Dilemma](#)

Strategic Issues in Archiving and Accessing Digital Motion Picture Materials (2007).

EN – [AMPAS Science and Technology Council: The Digital Dilemma 2](#)

Perspectives from Independent Filmmakers, Documentarians and Nonprofit Audiovisual Archives (2012).

EN – [AMPAS Science and Technology Council: Long-Term Management and Storage of Digital Motion Picture Materials](#)

A Digital Motion Picture Archive Framework Project Case Study.

EN – [Open Planets Foundation](#)

A community hub for digital preservation, with various projects, resources, blogs etc.

### **3.3 Digital Cinema Projection and Presentation** **Projection numérique** **Proyección digital**

EN – [FIAF E-publications: DCPs and digital projection](#)

Digital cinema technology and Digital projections FAQs

EN – [FIAF E-Publications: Digital Cinema Equipment FAQs](#)

By Torkell Sætervadet, based on his book *FIAF Digital Projection Guide*

### **4.0 Restoration** **Restauration** **Restauración**

EN – [Danish Film Institute: Articles on film restoration](#)

From *Preserve then Show* (DFI, 2002).

## **5.0 Software Programmes Programmas**

EN – [Fraunhofer: EasyDCP](#)

Applications for creating, playing and encrypting DCPs.

EN – [MediaInfo](#)

Analyser for media files: identifies formats, wrappers, codecs etc. (See also NARA, below)

EN – [NARA open source applications](#)

File analyzer, AVI-MetaEdit, MediaInfo, Video-Frame-Analyzer

EN – [Square Box Systems](#)

CatDV: low cost management tool for captured video files.

Live Capture Plus: application for capturing from Mini-DV, DVCAM, DVCPPro.

EN – [AudioVisual Preservation Solutions: DV Analyzer](#)

Free application which analyses DV files for defects.

## **6.0 Other Resources Autres ressources Otros recursos**

### **6.1 Archival and Professional Organisations Resources Ressources archivistiques et corporatives Recursos archivísticos y corporativos**

EN,FR,ES – [FIAF: Journal of Film Preservation](#)

EN – [BKSTS Journal Archive](#)

Accessible for BKSTS members. Includes access to database and, in many cases, pdf articles of numerous other film related publications

EN – [George Eastman House: Image Magazine, 1952-1997](#)

EN – [Getty Conservation Institute: AATA](#)

Abstracts of International Conservation Literature

En – [Getty Research Institute: Research Library](#)

Index keywords: Motion Picture Cameras, Motion Picture Projection, Motion Picture Projectors, Motion Picture Theaters, Motion Pictures. (Internet Archive)

EN – [National Film and Sound Archive, NFSA Journal](#)

EN – [SMPTE: Digital Library](#)

Accessible for SMPTE members. Access to Journal of the Society of Motion Picture and Television Engineers (1916 – present) as well as standards and conference archives

## 6.2 Filmographies Filmographies Filmografías

EN – [Library of Congress: Edison Motion Pictures](#)  
Edison motion pictures and sound recordings.

EN – [American Film Institute: Catalog of Feature Films](#)  
US filmography 1893-2011.

FR – Pathé filmographie  
<http://filmographie.fondation-jeromeseydoux-pathe.com/>  
Version en ligne des catalogues d'Henri Bousquet, enrichis de nouvelles entrées.

## 6.3 Disaster Recovery Gestion de sinistres Gestión de siniestros

EN – AMIA: [Disaster Recovery](#)  
Includes: *Disaster Recovery - First Actions for Film, Tape and Discs*; Mick Newnham: *Disaster Recovery for Films in Flooded Areas*; Peter Brothers: *Disaster Recovery for Tapes in Flooded Areas*; Mick Newnham: *FAQ on Film Water Damage; What to do about Home Movie Damage*

## 6.4 Historical Publications (from the [Internet Archive](#)) Publications historiques (de l'[Internet Archive](#)) Publicaciones históricas (del [Internet Archive](#))

EN – [James R. Cameron \(ca 1930s\): Servicing Motion Picture Sound Equipment](#)

EN – [C. L. Gregory \(1927\), Motion Picture Photography, 2<sup>nd</sup>. edition](#)

EN – [C. Francis \(Charles Francis\) Jenkins \(1908\): Handbook for motion picture and stereopticon operators](#)

EN – [Herbert C. McKay \(1927\): Handbook of Motion Picture Photography](#)

EN – [William H. Offenhauser, Jr. \(1949\): 16-mm sound motion pictures, a manual for the professional and the amateur](#)

EN – [William H. Offenhauser, Jr. \(1953\): 16-mm sound motion pictures, a manual for the professional and the amateur](#)

EN – [Leslie J. Wheeler \(1953\): Principles of cinematography: a handbook of motion picture technology](#)

EN – [Media History Digital Library: Technical Journals Collection \(1924-1965\)](#)

Includes:  
American Cinematographer (1924-1942)  
International Photographer (1929-1941)  
International Projectionist (1933-1965)

Journal of the Society of Motion Picture Engineers (1930-1949 – cf. above)  
Journal of the Society of Motion Picture and Television Engineers (1950-1954 – cf. above)  
The Motion Picture Projectionist (1927-1933)  
Projection Engineering (1930-1933)

## **6.5 Miscellany**

### **Divers [Fr]**

### **Varios [Es]**

EN – [Who's Who of Victorian Cinema edited by Stephen Herbert](#)  
Web version of the book. Very practical and reliable publication about early films.

EN – [Kodak: Production tools](#)  
Tools designed by Kodak. Includes a useful Film Calculator which calculates running time from length (or the other way round) for different gauges, plus a Film and Video Glossary.

EN – [Kodak: The Essential Reference Guide for Filmmakers](#)  
Basic Handbook for Filmmakers. An introduction to film production, post-production, distribution and archiving.

FR – [La Cinémathèque française: La Bibliothèque numérique du cinéma](#)  
Catalogue de ressources numérisées provenant des collections de la Cinémathèque française. Beaucoup de documents sur le pré-cinéma et les débuts du cinéma. Catalogues de maisons de production et documentation technique. Documents dans les langues suivantes : anglais, français, allemand, italien et latin.

EN – [AMPAS: Motion Picture Sound Engineering](#)  
An original publication from 1938, *Motion Picture Sound Engineering*).

DE - [Memento Movie – Materialien zum audiovisuellen Kulturerbe](#)  
Materials on AV heritage, in German