

**Zeitschrift:** Vermessung, Photogrammetrie, Kulturtechnik : VPK = Mensuration, photogrammétrie, génie rural

**Herausgeber:** Schweizerischer Verein für Vermessung und Kulturtechnik (SVVK) = Société suisse des mensurations et améliorations foncières (SSMAF)

**Band:** 98 (2000)

**Heft:** 8

## Werbung

### Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

### Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

### Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

**Download PDF:** 22.08.2025

**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**

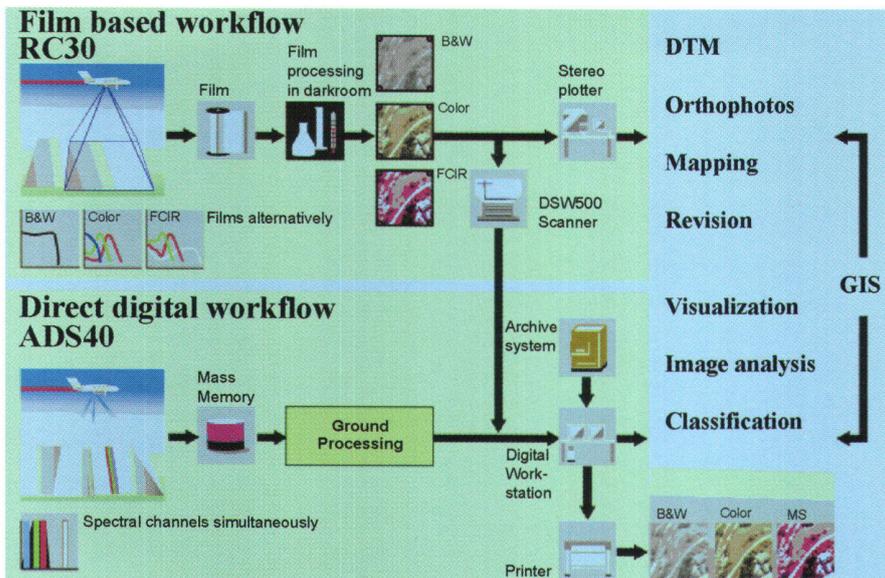


Fig. 5: Comparison of film and digital flowlines.

mandatory. There is no «fall back» to the original film in the can if a digital process goes wrong. Therefore a systematic, modern approach to the storage and cataloging of terabytes of data and metadata can hardly be avoided. Secondly, the geometry of the three-line-scanner is not familiar to all practitioners and some concepts must be understood. There is relief displacement, for example, outwards from the center of each strip but in the case of the nadir sensor there is none along the strip and in the case of the forward and backward sensors the displacement is constant for an object of given height, and does not vary with position along the strip. There is no parallax angle in the traditional sense, controlled by airbase and principal distance: the stereo angles between the three panchromatic views are functions of the principal distance and the layout of the focal plane –

they cannot be varied by project planning. In film imagery with 60% forward overlap, 60% of the terrain appears in three images – the triple overlap – whereas with three-line-scanner imagery every point appears in three images. This means that triple image matching can be used for triangulation and DTM generation, which adds robustness but also computational effort.

Whilst the success of the ADS40 seems assured, with leading RC20/30 customers already expressing interest worldwide and in some cases ready to place orders straightaway, sales levels depend on several factors. Product positioning, for example, must be tackled since LH Systems wishes to continue to sell RC30 film cameras at significant levels for some years to come. A critical one is that in its quest to sell the remote sensing merits of the ADS40, LH Systems must penetrate un-

familiar markets. And another is the importance of LH Systems' competitors implementing algorithms in their software to cope with ADS40 data. This seems likely to happen, as it is of benefit to all parties concerned, and LH Systems has facilitated the process by making freely available an InfoKit containing the tools needed to do so.

So the new era has dawned. The doyen of film camera vendors has introduced a high performance digital sensor, capable of photogrammetric accuracy and coverage on the one hand and multispectral data on the other. The attractions of all digital flowlines are clear. Interest in the product has proved immense. LH Systems' challenges now are to deliver and support the ADS40 with the same competence that has accompanied the film cameras for so many years.

This article appears simultaneously in GIM International Vol. 14, number, 8 Aug. 2000.

Peter Fricker  
 Rainer Sandau  
 LH Systems GmbH  
 Heinrich-Wild-Strasse  
 CH-9435 Heerbrugg  
 e-mail: fricker@lh-systems.com  
 e-mail: sandau@lh-systems.com  
<http://www.lh-systems.com>

Stewart Walker  
 LH Systems LLC  
 10965 Via Frontera  
 San Diego, LL CA 97127-1703  
 USA  
 e-mail: walker@lh-systems.com

Wandeln Sie Ihr INTERLIS-Datenmodell in ein UML-Diagramm. Oder umgekehrt. Software herunterladen, testen.

# Ihr Datenmodell als Diagramm!



**EISENHUT INFORMATIK**

Rosenweg 14 • CH-3303 Jegenstorf • Tel 031 762 06 62 • Fax 031 762 06 64 • <http://www.eisenhutinformatik.ch>