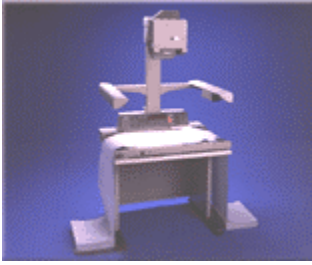


# Planetary Camera 41 & 42



## Planetary Camera 41

The ALOS Planetary Camera 41 is a reliable, durable and dependable camera for high-

**volume applications. Designed for fast, simple, efficient microfilming, it is the desktop microfilm camera for today's microfilming needs.** Simply place a document on the copyboard, and the ALOS Planetary Camera 41 automatically selects both the correct reduction ratio and the proper focus. Now press the Exposure button. That's all there is to it.

Other features include automatic aperture size selection (single frame or double frame), frame indexing, single corner positioning, and auto exposure control – individual functions that work together to improve productivity and image quality.

### Automatic Reduction and Focus

The ALOS Planetary Camera 41 automatically determines the size of the document and selects both the correct reduction ratio and the proper focus, eliminating the need for manual adjustments.

The camera head can be easily replaced in seconds, allowing different departments to use their own camera heads for specific filming purposes.

A self-diagnosis system with red LEDs warns you when film is about to run out or when the camera head isn't locked to the main body.

### Full Upright Images

In addition to automatically sensing the height of the document to determine the



## ADF Planetary Camera 42

High-Speed Automatic Microfilm Recorder

The ALOS ADF Planetary Camera 42 provides fully automated microfilming of single-sided and double-sided documents with intelligent functions for greater productivity and higher quality images. High volume applications require intelligent automation and individual functions that work together to improve overall microfilming productivity and image quality.

With the ALOS ADF Planetary Camera 42, the automatic document feeder teams up with a double-sided document function to permit fast, efficient filming of both single and double-sided documents.

It all adds up to increased productivity with faster, easier, more accurate filming, and higher image quality. Day after day, roll after roll, job after job.

### Automatic Document Feeding (ADF)

The ALOS ADF 42 provides two automatic document feeding modes. In the ADF mode, up to 500 single-sheet documents are automatically fed to the unit and filmed at 45 sheets per minute.

In the SADF (Semi-Automatic Document Feeding) mode, the document is automatically fed to the unit and the operator activates the filming process manually, permitting special settings and adjustments for individual documents or special indexing or imprinting requirements.

The DF (Document Feeding) mode permits automatic feeding of individually

correct reduction ratio, the ALOS Planetary Camera 41 also senses the document width to determine the correct aperture size. Documents up to legal size (8 1/2" x 14") are filmed in single frames while larger documents are filmed in double wide-width frames. But no matter what frame width is used, the filmed images are upright for easy viewing.

### **Auto Exposure Control**

Advanced electronics technology provides completely automatic exposure adjustment for sharp, clear images every time. Manual adjustment of the exposure time is also possible for special filming needs.

**Think of the ALOS Planetary Camera 41 when you need dependable, fast, simple, more versatile microfilming.**

## **Features**

### **Frame Indexing (Numbers and Blip Marks)**

For faster, easier identification and indexing, frame numbers and/or blip marks can be selected and recorded on the film. Three levels of blip marks – Item, Batch and Block, --are available. All are encoded inside the camera head to ensure consistent readability, as well as, more accurate document exposures.

In addition, the operator can manually input up to three 4-digit numbers or a single 12-digit number to more precisely identify each frame with time, date or other vital information. These numbers appear along the top of the frame.

### **RS-232C Interface**

Connect a PC or minicomputer to the built-in RS-232C Interface, and the ALOS Planetary Camera 41 becomes a data entry camera for CAR (Computer Assisted Retrieval) systems, permitting full control of all camera operations from the computer.

handled documents.

### **Double-Sided Document Handling**

The ALOS ADF 42 also handles double-sided documents with equal ease. Simply select the double-sided mode, and the ALOS ADF 42 films the first side, turns the document over, films the second side, ejects it and brings up the next document, all automatically! In the SADF mode, the operator can choose to film either or both sides of each document. If both single-sided and double-sided are mixed together, simply insert special "target" cards before each type of document. The ADF Planetary Camera 42 will "read" each target card and automatically switch to the appropriate filming mode. These target cards can also be used to control many other ALOS ADF 42 functions.

### **Automatic Reduction and Focus**

The ALOS ADF Planetary Camera 42 automatically determines the size of the document and selects both the correct reduction ratio and the proper focus, eliminating the need for manual adjustments.

The camera head can be easily replaced in seconds, allowing different departments to use their own camera heads for specific filming purposes.

A self-diagnosis system with LEDs lets you know when film is about to run out or when the camera head isn't locked the main body. LEDs also indicate the locations of paper jams, as well as, whether or not the jammed document has been filmed.

## **Features**

### **Full Upright Images**

In addition to automatically sensing the height of the document to determine the correct reduction ratio, the ALOS ADF Planetary Camera 42 also senses the document width to determine the correct

### **Zero-Space Filming**

The gap between frames can be eliminated, permitting more documents to be filmed per roll and minimizing the flicker effect seen when viewing moving film.

### **High-Quality Images**

The lenses produce high-resolution images from a wide range of originals, from single sheets of paper to books up to 2cm in thickness, at all focal distances. A fluorescent lamp system provides uniform illumination, ensuring consistent exposures, roll after roll of film.

### **Single Corner Positioning**

The ALOS 41 greatly simplifies document filming by requiring only a single corner of a document be positioned correctly.

## **Specifications**

#### **Type:**

Planetary desk top

#### **Film:**

16mm x 100' (5 mil rollfilm)  
16mm x 125' (4 mil rollfilm)  
16mm x 215' (2.5 mil rollfilm)

#### **Frame Counters:**

12-digit resettable LED display  
7-digit non-resettable  
mechanical counter

#### **Lens:**

F5.0 28mm

#### **Resolution:**

155 lines/mm

#### **Shutter:**

Electromagnetic, solenoid operated

#### **Reduction Ratio:**

25:1, 32:1

#### **Exposure Control:**

Automatic or manual

aperture size. Documents up to legal size (8 1/2" x 14") are filmed in single frames, while larger documents are filmed in double wide width frames. But no matter what frame width is used, the filmed images are upright for easy viewing.

### **RS-232C Interface**

Connect a PC or mini computer to the built-in RS 232C Interface, and the ALOS ADF 42 becomes a data entry camera for CAR (Computer Assisted Retrieval) systems, permitting full control of all camera operations through the computer.

### **Auto Exposure Control**

Advanced electronics technology provides completely automatic exposure adjustment for sharp, clear images every time. Manual adjustment of the exposure time is also possible for special filming needs.

### **Frame Indexing (Numbers and Blip Marks)**

For faster, easier identification and indexing, frame numbers and blip marks can be selected and recorded on film. Three levels of blip marks- Item, Batch and Block are available. All are encoded inside the camera head to ensure consistent readability, as well as, more accurate document exposures.

In addition, an operator can manually input up to three 4-digit numbers or a single 12-digit number to more precisely identify each frame with time, date or other vital information. These numbers appear along the top of the frame.

### **Printing Capabilities**

Add the optional Imprinter and the ALOS ADF 42 will print the frame number on the original document after it is filmed to ensure accurate correlation of filmed images and data entered from the documents.

### **High-Quality Images**

Th l d hi h l ti

**Light Source:**

(2) 15W Fluorescent lamps

**Power Source:**

AC local voltage

**Power Consumption:**

200W

**Original Size:**

Max. 11" x 17" (A3)

**Frame Size:**

9.7mm x 12.6mm (single frame),  
18.2mm x 12.6mm (double frame)  
switchable

**Pull down:**

10mm (single frame) or  
18.5mm (double frame)  
Variable setting between 11.75mm  
and 20.25mm

**Document Mark:**

Built-in tri-level document mark

**Dimensions (W x D x H):**

35-1/2" x 27-1/2" x 41-1/2"  
(902mm x 700mm x 1,054mm)

**Weight:**

90 lb. (41 kg)

**Option:**

RS-232C interface  
6-digit resettable mechanical counter  
Foot switch

**CFF**

A high-speed continuous forms feeder for the ALOS Planetary Camera 41, the ALOS CFF- Continuous Form Feeder accepts a variety of computer and other pin-fed forms.

**High-Speed Form Transport**

Fast, efficient and accurate, the ALOS CFF can transport up to sixty standard computer forms (11" x 14") per minute—one form every second. Up to 500 sheets can be fed in a single run, significantly

The lenses produce high-resolution images from a wide range of originals, from single sheets of paper to books up to 2cm in thickness. A fluorescent lamp system provides uniform illumination, ensuring consistent exposures every time.

## Specifications

**Type:**

Planetary desk top

**Film:**

16mm x 100' (5 mil rollfilm)  
16mm x 125' (4 mil rollfilm)  
16mm x 215' (2.5 mil rollfilm)

**Frame Counters:**

12-digit resettable LED display  
7-digit non-resettable mechanical counter

**Lens:**

F5.0 28mm

**Resolution:**

155 lines/mm

**Shutter:**

Electromagnetic, solenoid-operated

**Reduction Ratio:**

25:1, 32:1

**Exposure Control:**

Automatic or manual

**Light Source:**

(2) 15W Fluorescent lamps

**Power Source:**

AC local voltage

**Power Consumption:**

300W

**Original Size Range:**

Min. width 3-3/4" (95mm)  
Min. length 5-1/2" (140mm)  
Max. width 14" (355mm)

improving microfilming productivity. A "High/Low" switch at the rear of the right-side unit provides quick and easy speed selection.

### **Adjustable Length Control**

The ALOS CFF also offers an adjustable form-length control for optimum feeding of various sizes of forms. Easy to use controls at the front of the right-side unit permit adjustment between 5-1/2" and 14" in 1/2" increments to match the length of the form to be filmed. The length default setting is 11".

### **Easy Setup, Smooth Operation**

The ALOS CFF- Continuous Form Feeder sets up quickly, with the right-side and left-side units attaching easily to the sides of the ALOS Planetary Camera 41. Operation is smooth and quiet – tractor feed clips hold the forms securely. Pull the CFF up over the Planetary Camera 41 table, where it is held flat for optimum focus and recorded automatically by the ALOS Planetary Camera 41. After being filmed, the form is pulled down the opposite side and neatly refolded.

### **Overlay Function**

Portions of a form can be masked with the Overlay Bar, preventing the information from being recorded by the ALOS Planetary Camera 41. The sliding Overlay Bar is easy to set up and adjust. Simply place the bar over that part of the form you wish to conceal and start filming.

## **Specifications**

**Type:** Computer Form Feeder

**Type of Originals:** Computer forms (weight/m<sup>2</sup>. 64gr/m<sup>2</sup>~82gr/m<sup>2</sup>)

**Multiple Feeding:** Approx. 500 sheets

**Filming Speed:** 60 pages per minute

### **Dimension:**

Right unit 8" x 2-1/2" x 27"  
(200 x 62 x 680mm)

Left unit 5-1/2" x 2" x 28"  
(142 x 50 x 702mm)

**Weight:** 17 lb. (7.7 kg)

**Power:** 24V DC + 10%

Max. length 17" (432mm)

### **Original Weight Range:**

50 – 120g/m<sup>2</sup>

### **Frame Size:**

9.7mm x 12.6mm (single frame),  
18.2mm x 12.6mm (double frame)  
switchable

### **Pull down:**

10mm (single frame) or  
18.5mm (double frame)  
Variable setting between 11.75mm  
and 20.25mm

### **Document Mark:**

Built-in tri-level document mark

### **Document Feeding Mode:**

4 Modes (2 ADF modes,  
1 DF mode, 1 Manual mode)

### **Capacity:**

500 sheets (11" x 17" or A3)

### **Document Feeding spd.:**

45 Sheets/min. (Letter or A4)

### **Dimensions: (W x D x H):**

52-9/10" x 37-4/5" x 48-9/10" (*without table*)

1,343mm x 680mm x 1,241mm)

### **Weight:**

176 lbs. (79.8 kg)

### **Option:**

RS232C Interface

Imprinter

Target card

6-digit resettable mechanical counter

Foot switch

**Power Consumption:** Under 50W