

KODAK LS85 Film Digitizer

Kodak's Highest resolution laser film digitizer



- **Up to 5k resolution**
- **For high resolution teleradiology applications**

The Kodak LS85 film digitizer is a high-performance tabletop laser film digitizer designed especially for high-resolution teleradiology applications. It accepts films up to 14 x 17 in. (35 x 43 cm). The LS85 digitizer offers all the inherent advantages of other Kodak laser film digitizers, including ease of use, excellent density resolution and precision, and spatial resolution.

Self-calibrating and unaffected by ambient light, this digitizer provides the performance, image quality, and reliability you expect from Kodak, the leader in medical imaging. All the user has to do is insert the film.

RESOLUTION

Film images are converted to high-resolution digital images of up to 5120 pixels x 6140 lines. Each pixel is assigned a

digital value equal to 1000x OD (optical density at that point). For example, any point on the film with an optical density of 2.5 is assigned a pixel value of 2500. The actual pixel *range* is *from* 0 to 4096 (optical density 4.096) in OD increments of 0.001.

Unique to Kodak film digitizers, the patented logarithmic amplifier enables better digitizing of grayscale detail at higher densities.

The LS85 is Kodak's highest resolution film digitizer, making it the ideal choice for high-resolution teleradiology applications/PACs requirements where diagnostic quality is imperative. The density resolution and precision is a linear function from 0.03 to 4.1 OD, providing the resolution needed to visualize subtle abnormalities.

Only a laser film digitizer can deliver this high degree of precision, with a laser beam discretely illuminating *each point* (pixel) on the film, and over 90% of the transmitted light collected and measured.

LEARN MORE

For more information about the Kodak LS85 film digitizer, or the Kodak family of laser film digitizers, contact your authorized dealer of Kodak products. Or visit www.kodak.com/go/health.



KODAK LS85 Film Digitizer

PRODUCT SPECIFICATIONS



Up to 5K Resolution
12-Bit Imaging
Tabletop Size
Extended Dynamic Range
Automatic Film Handling
Optional Single-Sheet Feeder
Optional 6-Sheet Feeder
Optional Bar-Code Reader

PIXEL GEOMETRY

Spot Size
50 μm
Pixels/Inch
512 PxPI
Limiting Resolution
10.0 lp/mm max

SCAN RATE

75 lines/second

COLLECTION SYSTEM

Integrating Cylinder

DIMENSIONS

Height: 16 in. (40.6 cm)
Width: 21 in. (53.3 cm)
Depth: 29 in. (73.7 cm)
Weight: 90 lb (40.9 kg)

OPTICAL DENSITY

Least Count
0.001 OD
Clinical Range—Linear
0.03 to 4.1 OD
Noise @ 4.0 OD
<0.05 OD 1 sigma

INTERFACE

PC ISA or SCSI
12 or 8 bits/pixel

FILM SIZE

7 to 14 in. (18 to 35 cm) width
7 to 36 in. (18 to 90 cm) length

POWER

110–120 VAC 1 Amp 50/60 Hz

ILLUMINATION SYSTEM

Type
He-Ne Laser
Scan
Galvanometer

REGULATORY

UL, cUL, TUV, CE
510k Clearance

www.kodak.com/go/health

Health Imaging Division
EASTMAN KODAK COMPANY
343 State Street
Rochester, NY 14650-1132
1-800-810-0327

Outside the U.S., please contact your
local Kodak company.

