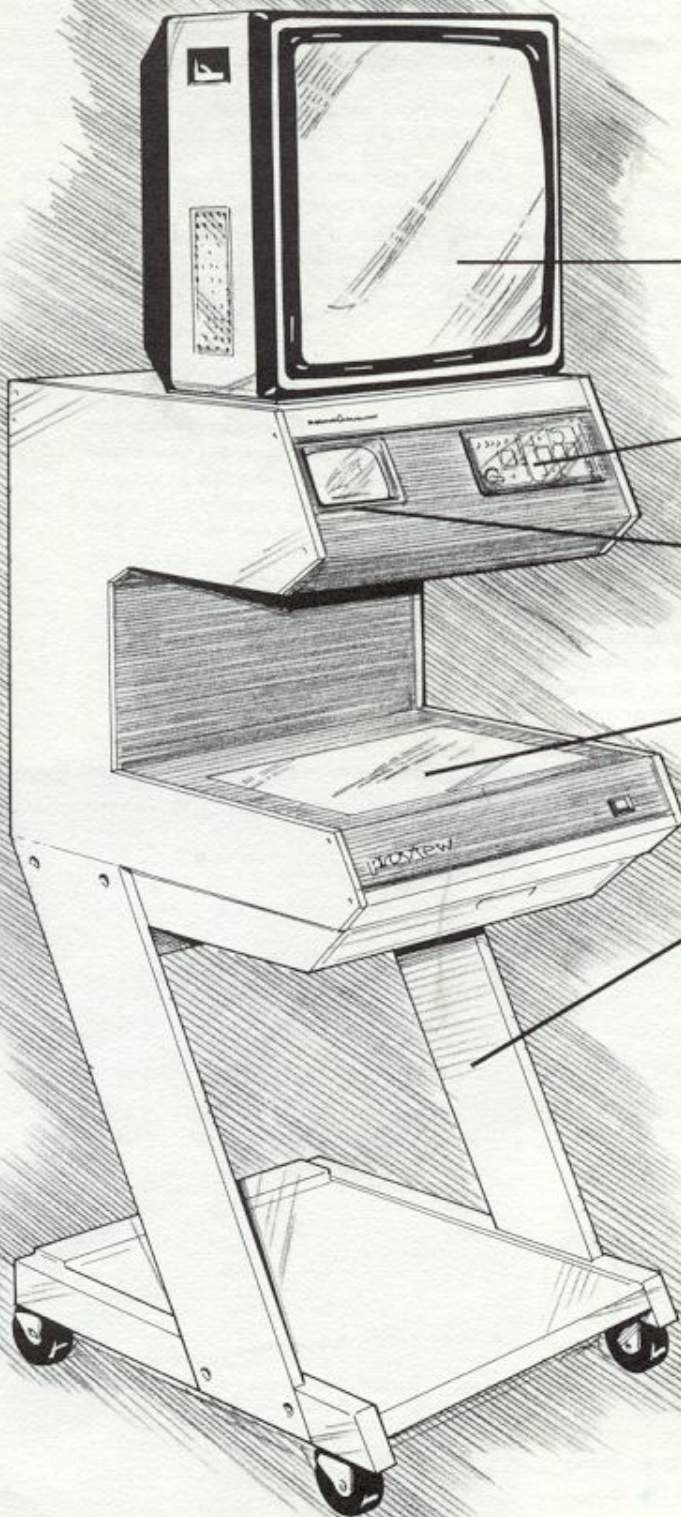


proview

Technical Information Guide



GE Medical Systems introduces an image display system of tremendous magnitude.

High-performance, 27" monitor.
Clear, crisp images for teaching and diagnostics. RGB or composite video inputs.

Push-button control.
Activate zoom control, image enhancement, and on-screen pointer at the touch of a button.

5" preview monitor.
Allows the lecturer to view visuals for image set-up and positioning.

Light intensity adjustable lighting.
For steady, flicker-free display of images from film, paper, or even 3-D objects.

Integrated mobile base.
Sleek, sturdy, and functional. **proview** can be easily unmounted for desk-top use.

The **proview**[™] image display system is a completely self-contained system designed specifically to enhance the clarity and force of *medical instruction*. The system provides a way of presenting a clear, close up view of X-rays, CT scans, Ultrasound, MR, and other diagnostic images. It's ideal for use in classrooms, conferences, lecture halls, presentations...any situation where two or more medical professionals want to view and discuss the same image.

For complete technical specifications on this exciting new teaching tool, please turn the page...

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The technical side of the **proview** image display system.

High-resolution CCD camera

proview's solid state CCD camera provides high picture quality and good sensitivity. The accuracy of the imaging system ensures precise image geometry over the full picture with no distortion. Insensitive to burn-in and magnetic fields, unaffected by shock or vibration, a constantly high level of performance is assured over long and maintenance-free periods.

Adjustable light intensity lightbox

proview's light table is big enough to handle everything from a 35mm slide to a full size (30 x 40 cm.) chest x-ray. Neon tubes, illuminating film from below, never flicker, even when the lightbox is initially switched on. Intensity can be adjusted from 800 to 9,000 lux—the equivalent of 3.5 aperture F-stops. Neon tubes burn cool, eliminating the need for noisy fans.

Peak white inverter

When the peak white inverter switch is flipped to the "ON" position, **proview** automatically tells you when you have optimum lighting conditions for the maximum dynamic range of the camera. When light areas of an image get too bright, **proview** automatically blackens them, improving the perceived perception.

Also prevents glare with automatic masking and eliminates need for mechanical or electronic shutters increasing the ease of use.

Image enhancement

A double gamma correction feature enhances fine and gross details on every diagnostic image by increasing contour and contrast. The built-in video compression capability makes hard-to-see details "pop up" and stand out from the rest of the film.

Video reverse

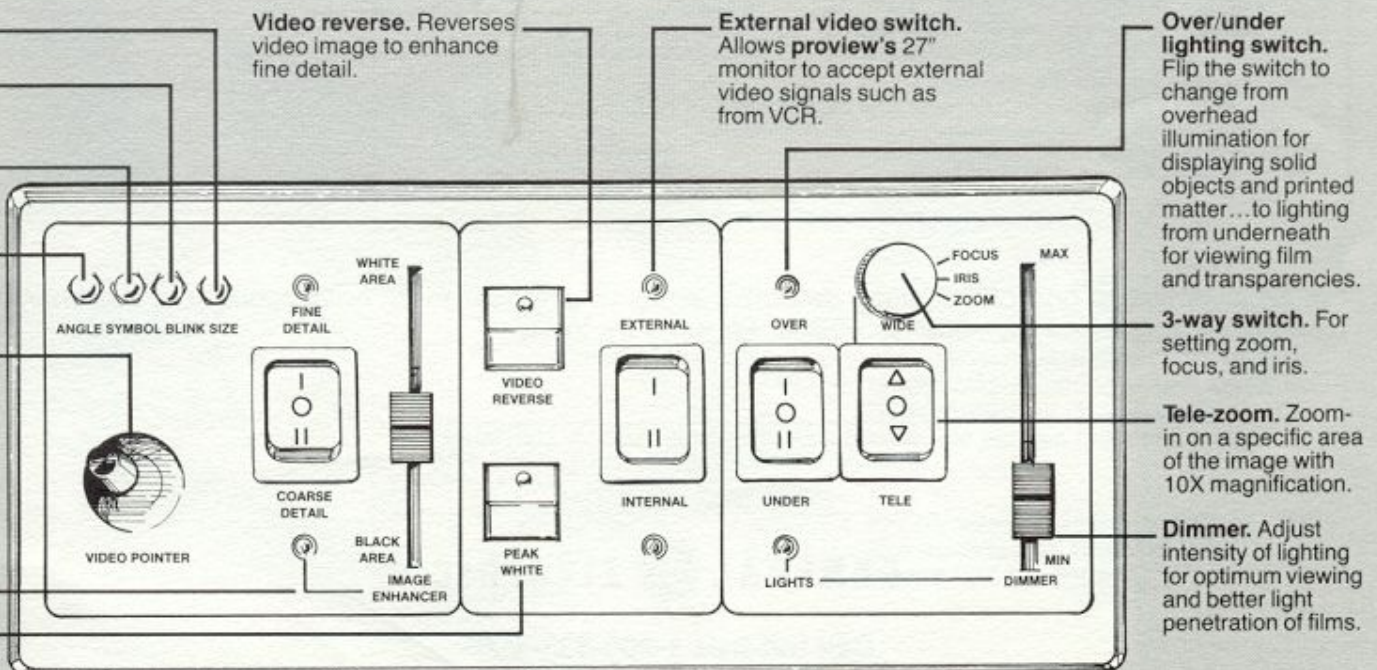
By flipping a switch you can reverse the video signal, so black appears as white and white appears as black. Video reversal helps highlight fine detail in skeletal and soft tissue x-rays and mammograms.

Video pointer

A joy stick moves the video pointer to any part of the image on any part of the screen. At the touch of a button you can rotate the angle of the pointer so it never obstructs the image you're looking at. Or you can make the pointer blink. Choose from four symbols—arrow, cross hairs, circle, and circle with cross hairs—in two sizes: large and small. The pointer appears as a white graphic with a solid black outline to make it clearly visible on any background.

Dual video outputs

The **proview** system has both RGB and composite video outputs. By feeding the RGB signal into the RGB/video monitor, you get the sharpest image picture possible. With the composite video signal, you can drive 6 or more monitors on their own or an infinite amount with an optional video signal distribution amplifier. This, of course, increases the flexibility of the **proview** system and makes it possible for images to be viewed simultaneously by hundreds of doctors and students in different rooms and different floors of the institution. An external video input allows you to use **proview** with a VCR or any other type of video training system.



Come take a close up look at **proview**. Call toll-free 1-800-433-5566 for information on how you can attend a demonstration of **proview**.

4 powerful options that add even more versatility to your **proview** image display system.

Remote control. Allows you to control **proview** from a distance. Ideal for teachers who prefer to talk from a podium or a desk instead of standing by **proview**. The remote control comes with a by-pass plug and security keylock that prevent unauthorized personnel from using the system.

Character generator. A slim computer keyboard that allows you to type a lecture or headings and captions

and then superimpose them over the image on the screen. Stores four pages of text and up to 50 separate lines of copy in memory.

LI-6 hard copy imager. Compact, high-resolution laser printer makes a hard copy of the screen display in 7.5 seconds. Costs as little as 2 cents per image to use. Turns **proview** into a powerful medical publishing system for producing reports, reference copies, case studies, or lecture notes.

Video writer. A graphics device that lets you draw lines, arrows, circles, and sketches free-hand and then superimpose them over the image on the screen. Helpful for highlighting specific features of a diagnostic image or dramatizing a presentation.

Summary of Main Specifications

	<i>proview</i>	<i>TV monitor</i>
Dimensions:	26 $\frac{3}{4}$ " W \times 56 $\frac{1}{4}$ " H \times 23 $\frac{1}{2}$ " D (68 \times 143 \times 60 cm)	24 $\frac{1}{2}$ " W \times 20" H \times 18 $\frac{1}{4}$ " D (62 \times 51 \times 46 cm)
Weight:	308 lbs. (140 kg.)	70 $\frac{1}{2}$ lbs. (32 kg.)
Shipping Dimensions:	27 $\frac{1}{2}$ " W \times 57" H \times 24 $\frac{3}{4}$ " D (70 \times 145 \times 62.5 cm)	29 $\frac{1}{2}$ " W \times 24 $\frac{1}{4}$ " H \times 20 $\frac{3}{4}$ " D (74 \times 63 \times 52.5 cm)
Shipping Weight:	330 $\frac{1}{4}$ lbs. (150 kg.)	77 lbs. (35 kg.)

Power Consumption

Power Supply: 12V DC Preview monitor • \pm 15V DC Enhancer and peak white • 24V AC Lights and pointer
Total System Current Consumption: Max. 250 Watts—115V, 50/60 Hz
Warm up time: System fully functional in 5 sec.
(Lightbox: 15 mins./TV monitor: 30 mins. to meet specification)

Output/Connections

Output signal: 7.5MHz \pm 1 db. EIA 525/60 or CCIR 625/50
Connections: 8 pin RGB J-connector
Cable: Included
Video out: BNC connector
External in: BNC connector
Two AUX power out: AUX 1 - Video monitor • AUX 2 - Max 2 amps
Fuse: 5 amps
Remote control: Security bypass and Lockout key

27" Color Monitor

27" 110° autoconvergent picture tube
Pitch: 0.82mm
Display capability: 64 characters/line (5 \times 7 dot matrix)
Total number of characters: 1600
Horizontal resolution: 500 pixels
Vertical resolution: 575 active lines (interlaced)
Built-in speaker for audio monitoring • Full array of video and RGB inputs

Preview Monitor

5" Black and White TV monitor • Factory optimized

TV Camera

Frame transfer CCD • Equivalent to $\frac{1}{2}$ " format • Pixels 600 H \times 588 V
Resolution: 450 TV lines Horizontal • 420 TV Lines Vertical
Signal to noise: 50 db
Gamma correction
Adjusted to 0.6
MTBF: $>$ 100,000 hours

Optical System

f1.6 - 2.1 • 10 - 100mm focal length \times 10 zoom
Motorized iris and focus adjustment for specialized applications • 13 elements
Close-up lens: 1 Diopter
Mirrors: Optical quality front surfaced mirrors

Imaging Deck

Shatterproof glass: 26 $\frac{3}{4}$ " W \times 15" D (68 \times 38 cm) • **Light area:** 11 $\frac{7}{8}$ " \times 15 $\frac{1}{4}$ " (30 \times 40 cm) • **False back:** 7 $\frac{1}{8}$ " (20 cm)
Effective work area: 26 $\frac{3}{4}$ " \times 22 $\frac{7}{8}$ " (68 \times 58 cm)
Access slot allows imaging large format films

Neon Lightbox

Adjustable light intensity, long life neon tubes
Power consumption: 4.2 amps
Light range: $<$ 800 lux - $>$ 9,500 lux (over 3.5 equivalent f.stops)
Flicker-free • Color temp. optimized • Low heat • 24V AC

Overhead Light

Dimmer controlled neon tube • Flicker-free • Long life tube • Low heat • 24V AC

For an invitation to one of the many demonstrations of **proview** to be held throughout the country, please call us toll-free at 1-800-433-5566. Or write us today.

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