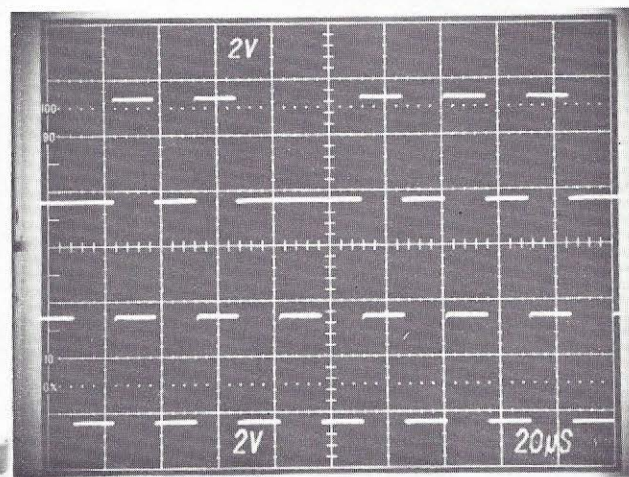
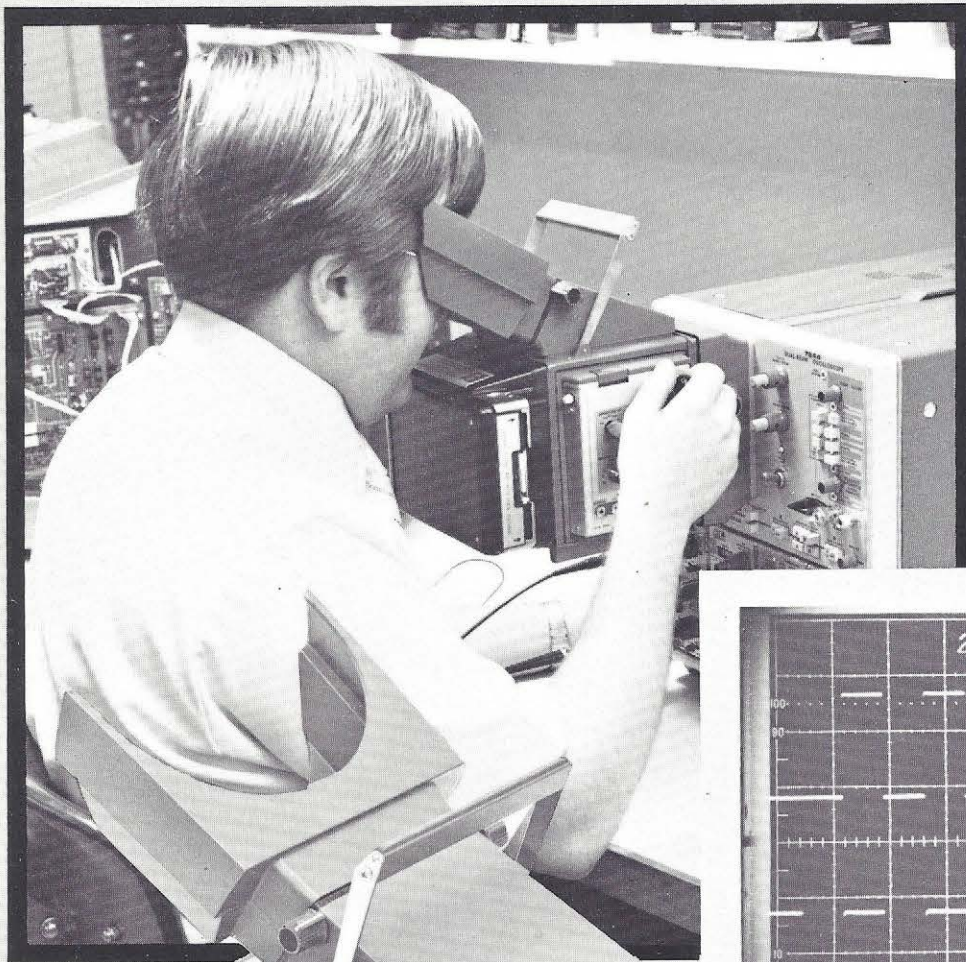
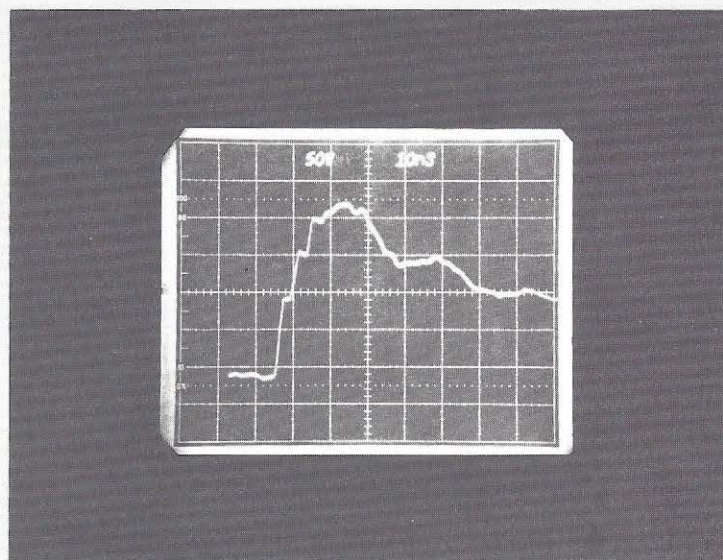
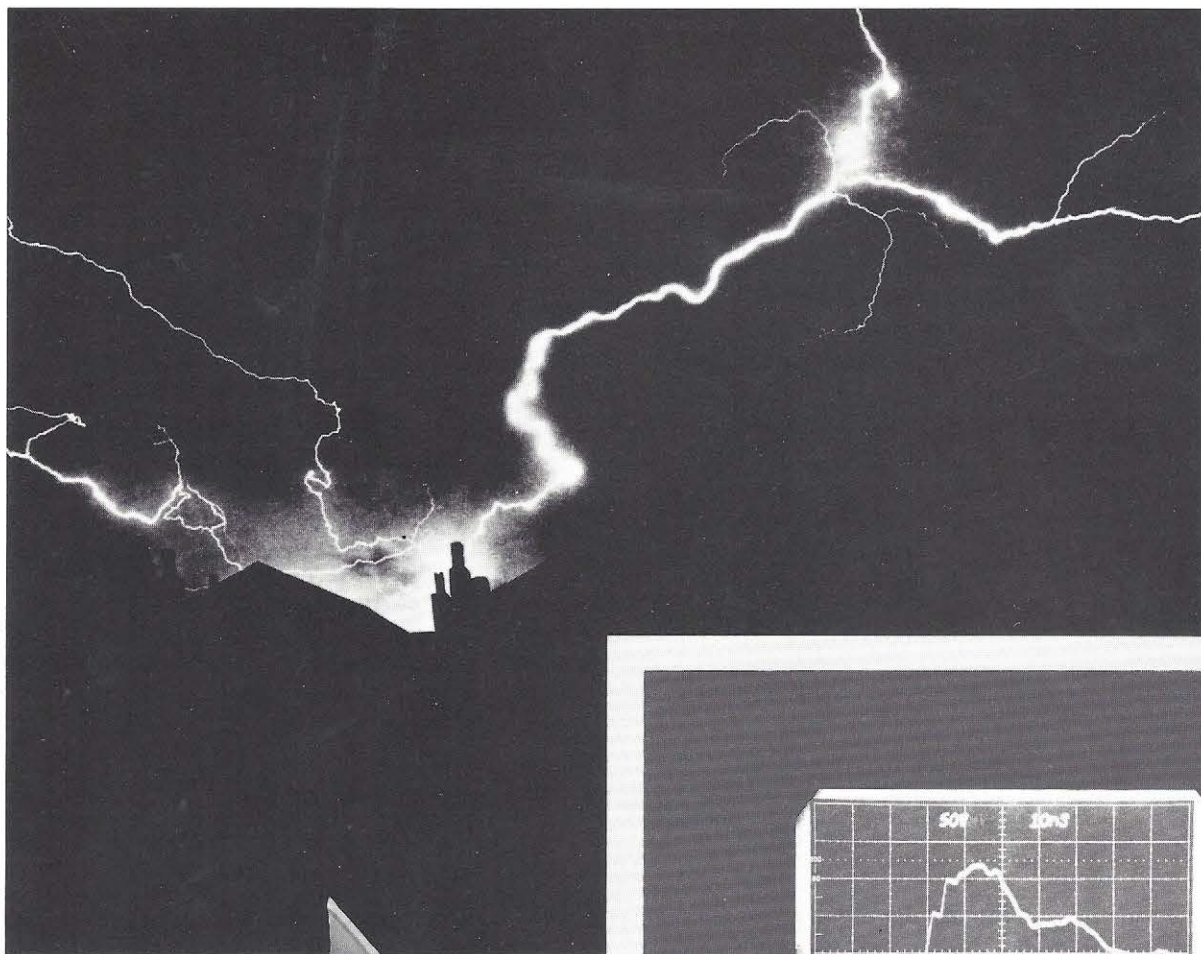


TEKTRONIX CAMERAS

Increase the versatility of your
oscilloscope or monitor with a camera.

A camera will capture an event,
document your display, and provide a
permanent record of your results.



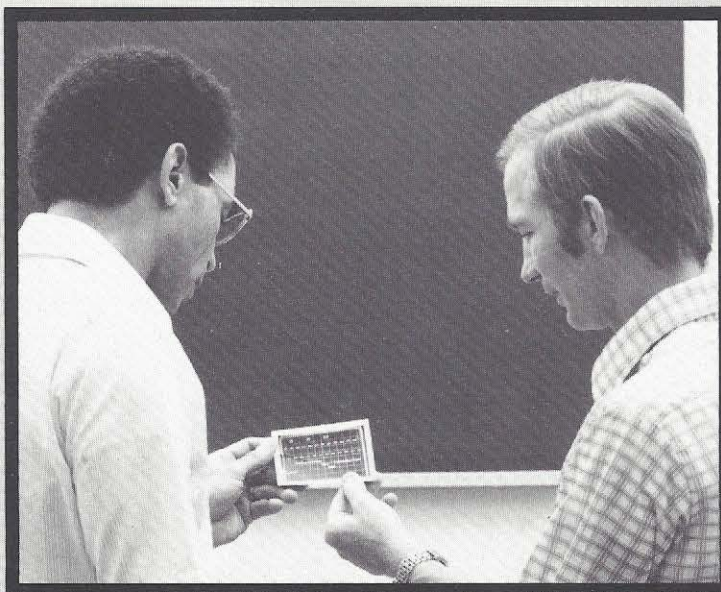
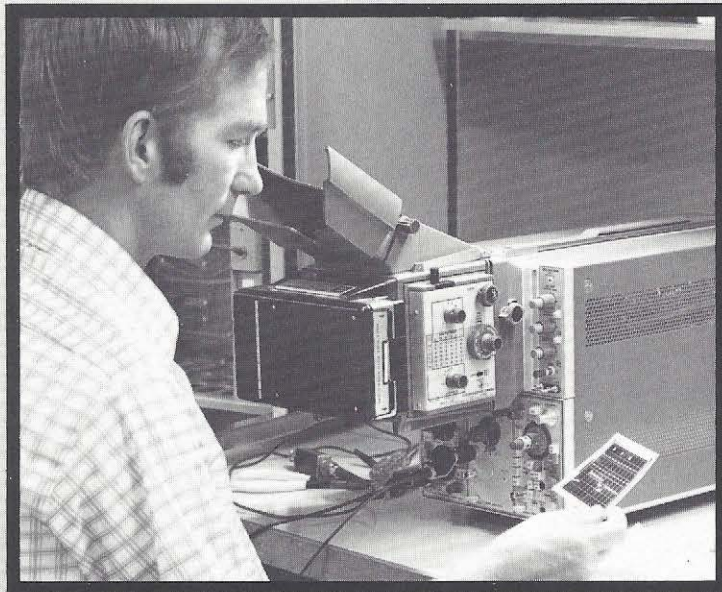


Whatever your field, from atomic testing to laser research, you want to capture the event you've been waiting for. A waveform recording camera provides a convenient way to capture a fast single event.

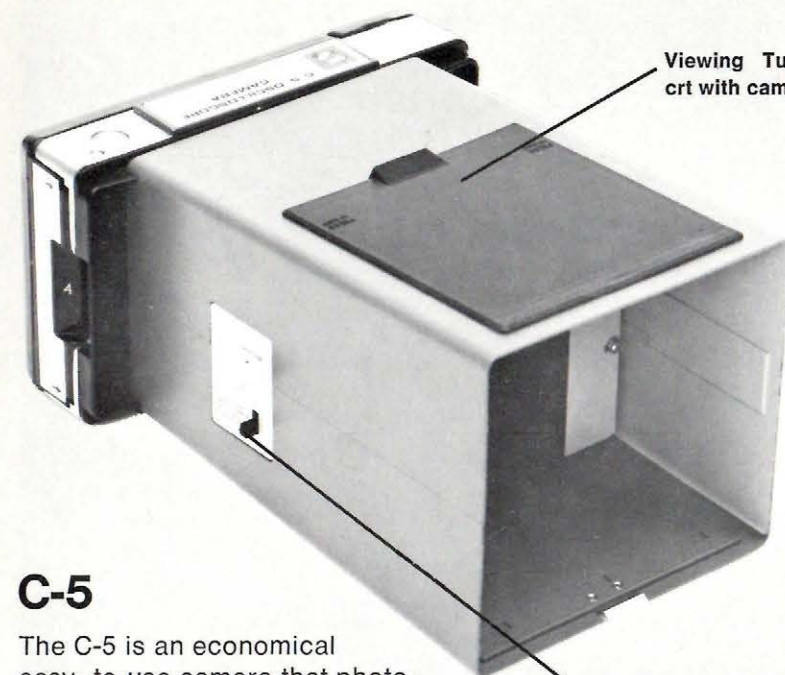


You've probably spent weeks, months, or even years working on a single project. Once you have the results, the display on your oscilloscope proves it.

A lot may depend on the display, so now you want to document it. And you know that good records are essential to your project's long-range success. A waveform photograph can be a valuable part of your records...



And help you get your message across. A photograph communicates your success to your colleagues or your supervisor with clarity and credibility.



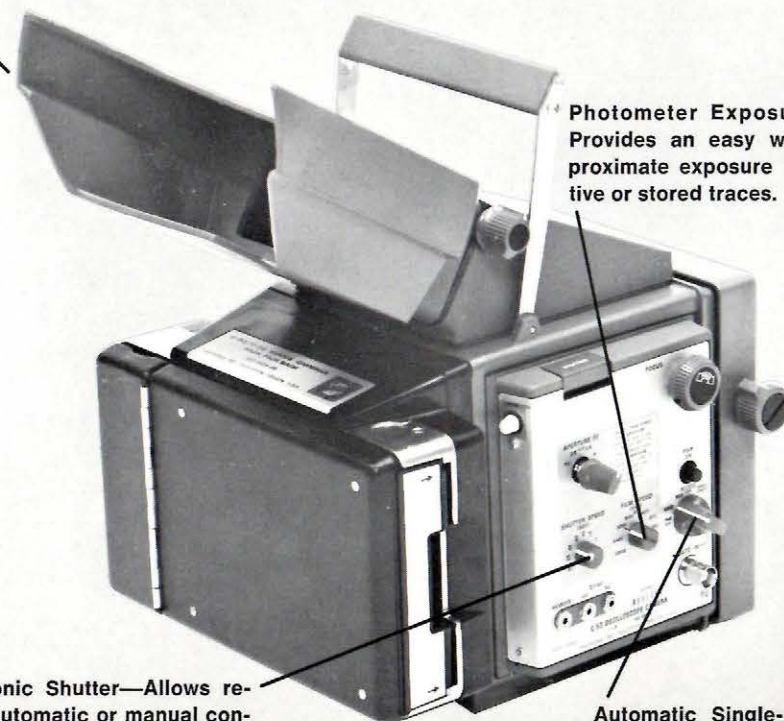
Viewing Tunnel—For viewing crt with camera in position.

C-5

The C-5 is an economical easy-to-use camera that photographs a crt with a display size of up to 10 x 12 cm. The economical, fixed focus f16 lens is suitable for repetitive or stored traces, but is not recommended for single-sweep waveforms.

Graticule Illumination Flash—For photographing non-illuminated graticules.

Viewing Tunnel—For viewing crt with camera in position.



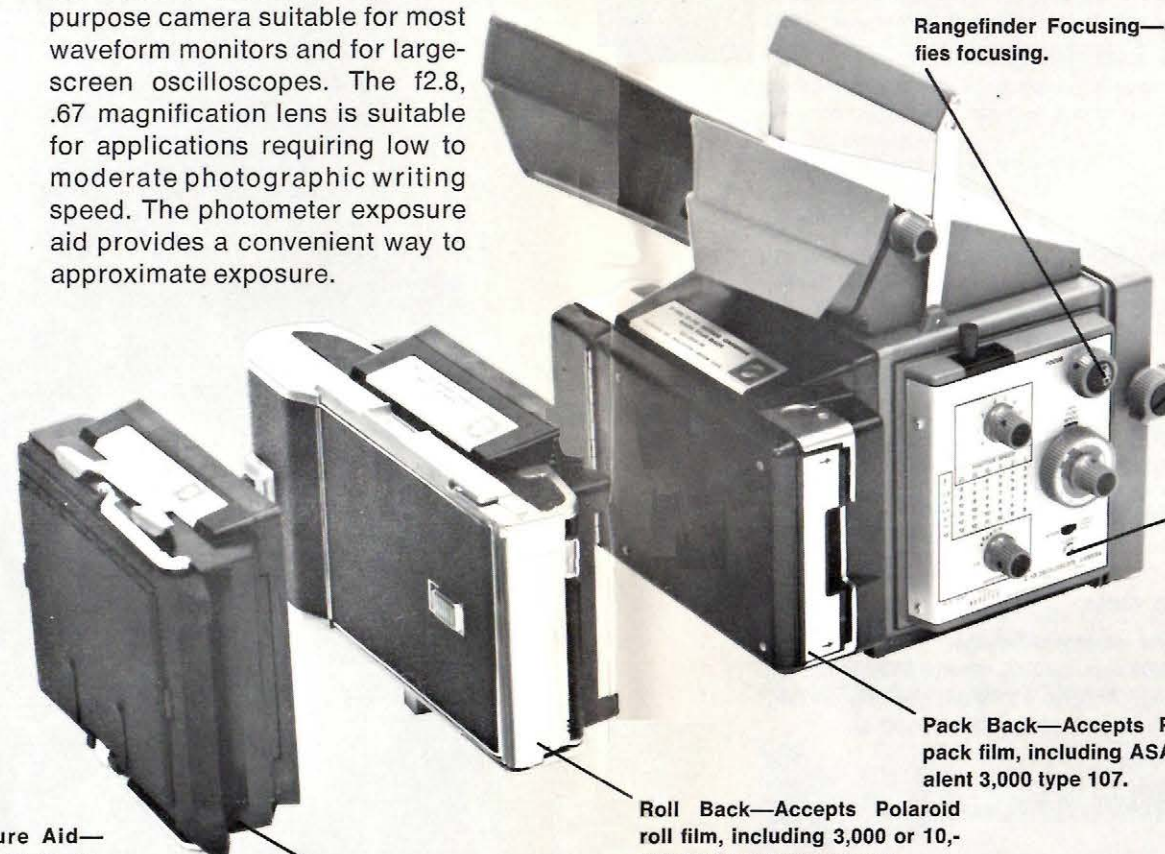
Photometer Exposure Aid—Provides an easy way to approximate exposure for repetitive or stored traces.

Electronic Shutter—Allows remote automatic or manual control of shutter.

Automatic Single-Sweep Control—Simplifies high-speed single-event photography.

C-59

The C-59 is a versatile general-purpose camera suitable for most waveform monitors and for large-screen oscilloscopes. The f2.8, .67 magnification lens is suitable for applications requiring low to moderate photographic writing speed. The photometer exposure aid provides a convenient way to approximate exposure.



Rangefinder Focusing—Simplifies focusing.

X Sync Contacts—Allow the camera shutter to trigger the event or to arm the oscilloscope single-sweep control.

Pack Back—Accepts Polaroid pack film, including ASA-equivalent 3,000 type 107.

Roll Back—Accepts Polaroid roll film, including 3,000 or 10,000 ASA-equivalent types.

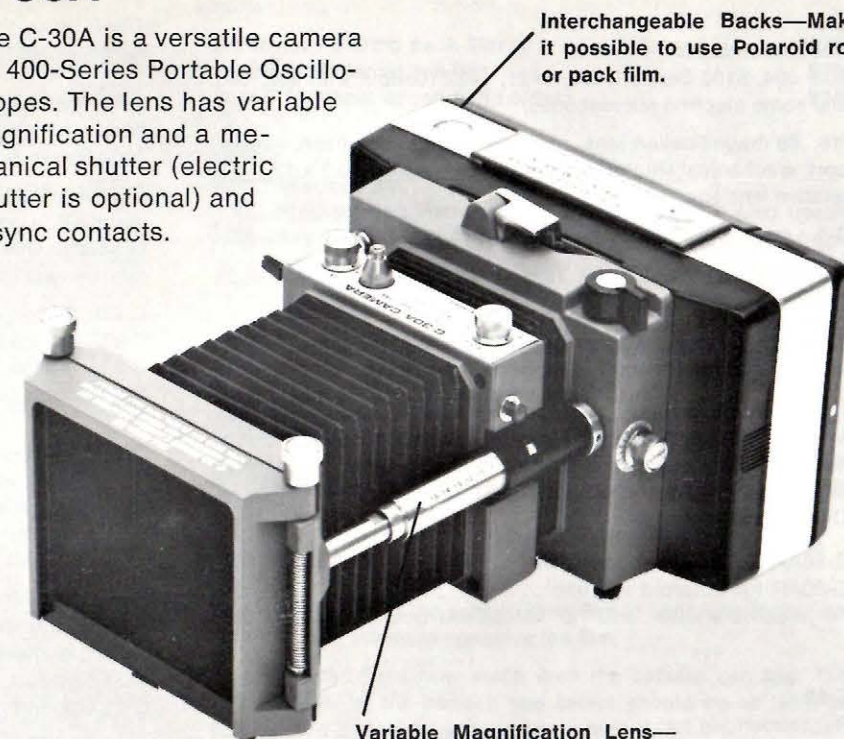
Graflok Back—Accepts holders for roll or sheet film. Roll film provides an economical negative with extended gray scale.

C-53

The C-53 is an easy-to-use general-purpose camera suitable for photographing most 7000-Series 8 x 10 cm displays. The fast f1.9 lens provides adequate writing speed for most applications. Rangefinder focusing, X sync contacts, and interchangeable backs add to the C-53's versatility.

C-30A

The C-30A is a versatile camera for 400-Series Portable Oscilloscopes. The lens has variable magnification and a mechanical shutter (electric shutter is optional) and X sync contacts.

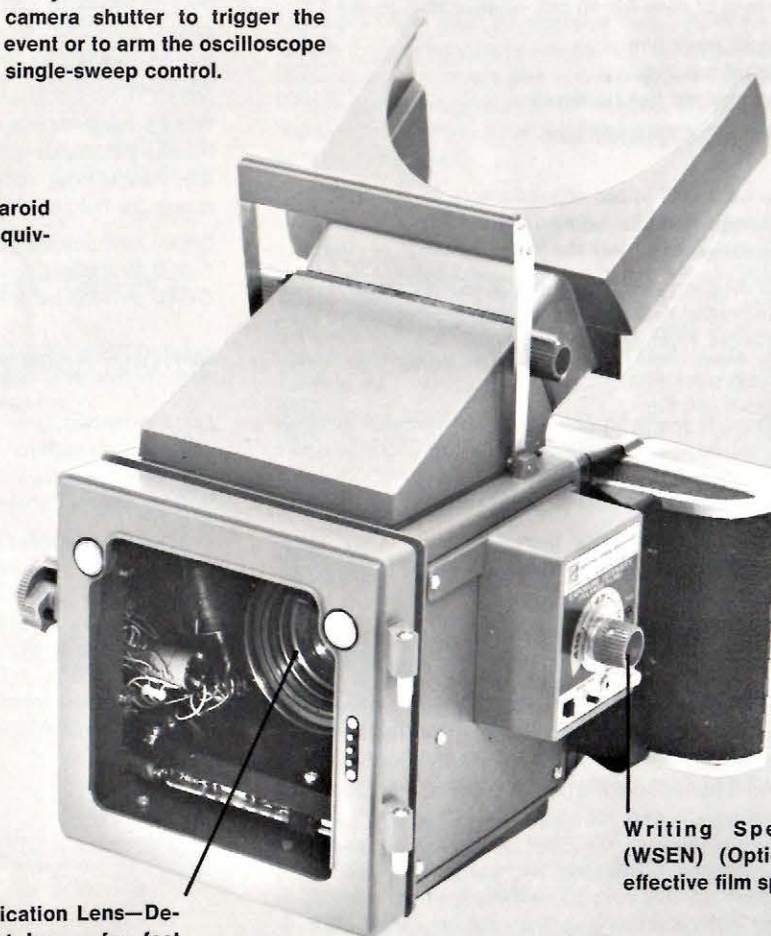


Interchangeable Backs—Make it possible to use Polaroid roll or pack film.

Variable Magnification Lens—Allows the camera to be used with crts of different sizes.

C-51

The C-51 is a very fast camera suitable for photographing single-sweep displays on most 7000-Series Oscilloscopes. The electronic shutter allows remote automatic or manual shutter control. The C-51 accepts pack, roll, or Graflok backs and features rangefinder focusing, photometer exposure aid, and automatic single-sweep control.



f1.2, .5 Magnification Lens—Delivers a bright image for fast single-event photography.

Writing Speed Enhancer (WSEN) (Optional)—Increases effective film speed.

Cameras for Monitors

C-5

Recommended for:

603, 604, 5100 Series, 1420, 1421, 1422 (Usable with 602, 605, and some electron microscopes)

f16, .68 magnification lens, graticule illumination flash, viewing port, mechanical shutter, maximum field of view 10.2 x 12.7 cm, relative lens speed 0.02

C-5\$235

C-30A

Recommended for:

602, 605 where display size is less than 8 x 10 cm.

f1.9, .7 to 1.5 variable magnification lens, mechanical shutter (electric shutter optional), interchangeable Polaroid backs. Maximum field of view for C-30A, 8 x 10 cm at .85 mag (which may cause slight corner vignetting). Relative lens speed for C-30A, 1.0.

C-30AP for Polaroid pack film\$650

C-30AR for Polaroid roll film\$680

For electric shutter, add "E" to camera typeAdd \$320

C-52

Recommended for:

Electron Microscopes

f1.4, unity magnification lens, electronic shutter, interchangeable backs, automatic single-sweep control, photometer exposure aid, rangefinder focusing, X sync contacts, viewing tunnel, maximum field of view 8 x 10 cm, relative lens speed 1.4

C-52P for Polaroid pack film\$1290

C-52R for Polaroid roll film\$1330

C-52G for sheet and roll film holders\$1265

Similar to C-51 and C-53 photographs

C-58

Recommended for:

Electron microscopes

f2.8, unity magnification lens, mechanical shutter, X sync contacts, interchangeable backs, viewing tunnel, maximum field of view 8.9 x 11.4 cm, relative lens speed 0.4.

C-58P for Polaroid pack film\$755

C-58R for Polaroid roll film\$785

C-58G for sheet and roll film holders\$730

C-59

Recommended for:

603, 604, 5100 Series, 520A, 521A, 522A, 528, 1480, 1481, 1482, 1485 (1400 Series requires factory mod to obtain graticule illumination)(with P or R back)

602, 605, or other 8 x 10 cm display when type 120 or 70 mm film is used(with G back)

f2.8, .67 magnification lens, photometer exposure aid, rangefinder focusing, internal batteries, interchangeable backs, X sync contacts, mechanical shutter, viewing tunnel, maximum field of view 10.2 x 12.7 cm, relative lens speed 0.65.

C-59P for Polaroid pack film\$615

C-59R for Polaroid roll film\$655

C-59G for sheet or roll film holders\$590

Cameras for Fast Single Events

The R back is usually used when maximum recording speed is required, since it accepts Polaroid 10,000 ASA-equivalent film.

C-27 Option 4

Recommended for:

7000 Series (except 7603, 7403N)

f1.3, .5 magnification lens, mechanical shutter (electric shutter optional), rugged construction, interchangeable lenses, X sync contacts, viewing tunnel, maximum field of view 8 x 10 cm, relative lens speed 2.6.

C-27P Option 4 for Polaroid pack film\$880

C-27R Option 4 for Polaroid roll film\$910

C-27G Option 4 Graflok back, for sheet or roll film holders \$860

For electric shutter, add "E" to camera typeAdd \$340

C-31, C-31 Option 1

Recommended for:

422, 453A, 454A, 485, 491 (May also be used with 7000 Series except 7603, 7403N)(C-31)

432, 434, 464, 465, 466, 475(C-31 Option 1)

f1.2, .5 magnification lens (.44 with Option 1), mechanical shutter (electric shutter optional), interchangeable Polaroid backs, X sync contacts. Maximum field of view for C-31, 8 x 9 cm; for C-31 Option 1, 8 x 10 cm. Relative lens speed for C-31, 2.9; for C-31 Option 1, 2.9.

C-31P for Polaroid pack film\$770

C-31R for Polaroid roll film\$800

Option 1Add \$15

For electric shutter, add "E" to camera typeAdd \$320

Similar to C-30A Photographs

C-51

Recommended for:

7000 Series (except 7603, 7403N)

f1.2, .5 magnification lens, electronic shutter, interchangeable backs, automatic single-sweep control, photometer exposure aid, rangefinder focusing, X sync contacts, viewing tunnel, maximum field of view 8 x 10 cm, relative lens speed 3.0.

C-51P for Polaroid pack film\$1260

C-51R for Polaroid roll film\$1300

C-51G Graflok back for sheet or roll film holders\$1235

Writing Speed Enhancer

Recommended for:

Applications where maximum photographic writing speed is required. Increases sensitivity of Polaroid or conventional film.

Writing Speed Enhancer for:

C-27 Camera, Order 016-0280-00\$185

C-30A and C-31 Cameras, Order 016-0284-00\$185

C-51 Camera, Order 016-0279-00\$185

C-53 Camera, Order 016-0300-00\$185

C-59 Camera, Order 016-0290-00\$185

General-Purpose Cameras

C-5

Recommended for:

5100 Series, 5440, 7603 (Also usable with other 5000- and 7000-Series instruments)

Suitable for repetitive or stored traces only

f16, .68 magnification lens, graticule illumination light, viewing port.

C-5\$235

C-27 Option 1

Recommended for:

5444

f1.9, .7 magnification lens, mechanical shutter (electric shutter optional), rugged construction, X sync contacts, viewing tunnel, interchangeable lenses, maximum field of view 10 x 10 cm, relative lens speed 1.2.

C-27P Option 1\$710

C-27R Option 1\$740

C-27G Option 1\$690

For electric shutter, add "E" to camera typeAdd \$340

C-30A, C-30A Option 1

Recommended for:

485, 491 (May also be used with 5000 and 7000 Series) .(C-30A) 434, 464, 466, 465, 475(Option 1)

f1.9, .7 to 1.5 variable magnification lens (.8 with Option 1), mechanical shutter (electric shutter optional), interchangeable Polaroid backs. Maximum field of view for C-30A, 8 x 10 cm at .85 mag (which may cause slight corner vignetting); for C-30A Option 1, 8 x 10 cm. Relative lens speed for C-30A, 1.0; for C-30A Option 1, 0.9.

C-30AP for Polaroid pack film\$650

C-30AR for Polaroid roll film\$680

C-30A Option 1Add \$ 15

For electric shutter, add "E" to camera typeAdd \$320

C-52

Recommended for:

7633, 7623A, 7613 (May also be used with 5441 if external battery pack is used)

f1.4, unity magnification lens, electronic shutter, interchangeable backs, automatic single-sweep control, photometer exposure aid, rangefinder focusing, X sync contacts.

C-52P for Polaroid pack film\$1290

C-52R for Polaroid roll film\$1330

C-52G for sheet or roll film holders\$1265

Similar to C-51 and C-53 photographs

C-53

Recommended for:

7904, 7704A, 7844, R7903

f1.9, .85 magnification lens, electronic shutter, interchangeable backs, automatic single-sweep control, photometer exposure aid, rangefinder focusing, X sync contacts, maximum field of view 8 x 10 cm, relative lens speed 1.0.

C-53P for Polaroid pack film\$1000

C-53R for Polaroid roll film\$1040

C-53G for sheet or roll film holders\$ 975

C-58

Recommended for:

7633, 7623A, 7613, 5441

f2.8, unity magnification lens, mechanical shutter, X sync contacts

C-58P for Polaroid pack film\$755

C-58R for Polaroid roll film\$785

C-58G for sheet or roll film holders\$730

C-59

Recommended for:

7603, 5100 storage instruments, 5444, 5440, D-83. Also usable with other 5000- and 7000-Series instruments.(with P or R back)

7000 Series (except 7603, 7403N), 5441, when 120- or 70-mm film is used(with G back)

f2.8, .67 magnification lens, photometer exposure aid, range-finder focusing, internal batteries, interchangeable backs, mechanical shutter, X sync contacts.

C-59P for Polaroid pack film\$615

C-59R for Polaroid roll film\$655

C-59G for sheet or roll film holders\$590

Glossary

ASA: A measure of the sensitivity of film to light. The higher the ASA number, the more sensitive the film.

Field of view: Tells how much area the camera can see. The field of view of the camera you select should be at least as large as the largest crt you expect to record.

Film fogging: A technique for increasing the maximum sensitivity of photographic film by giving it a short exposure to dim, diffuse light. The TEKTRONIX Writing Speed Enhancer is designed to fill this need.

f number: the ratio of effective lens diameter to lens focal length. Low f numbers such as f1.2 correspond to large apertures. High f numbers like f16 correspond to small apertures. Larger apertures give brighter images. If you are attempting to capture fast events, it will be important to consider the largest aperture of a lens.

Magnification or magnification ratio: The ratio of oscilloscope screen diameter to the diameter of its image on the film. For example, a .85 magnification lens used with an 8 x 10 cm oscilloscope display will give a 6.8 x 8.5 cm image, which fits within the 7.3 x 9.5 cm active area of 47, 107, and 410 Polaroid film. Since a smaller image will be more intense, a .5 magnification lens is usually chosen for high-speed single-event recording.

Relative lens speed: The combined effect of maximum aperture, magnification, and other factors on the light-gathering power of a lens. A lens with a relative speed of 2 is capable of forming an image twice as bright as a lens with a relative speed of 1.

Adapters and Carrying Cases

C-50-Series cameras include adapter 016-0249-03, which allows them to be mounted on any 5000- or 7000-Series oscilloscope, on 6½-inch or smaller crt 600-Series monitors, or on the 528. To mount C-50-Series cameras on the 520A, 521A, or 522A, order 016-0295-00, \$30. For the 529, order 016-0224-00, \$33. Carrying case for the C-50-Series cameras is 016-0177-00, \$95. Adapters for the C-27 are the same as those for the C-50 Series. Price of the C-27 does not include adapter 016-0249-03, \$35. Carrying case for the C-27 is 016-0208-01, \$125. C-30-Series cameras include the appropriate adapters to mount them on 400-Series instruments. To mount C-30 Series on the 5000 or 7000 Series, on 6½-inch or smaller crt 600-Series monitors, or on the 528, use 016-0248-00, \$35. Carrying case for C-30-Series cameras is 016-0587-00, \$35.

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