

#### Introduction

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THE LENS OPENING (aperture) diad is turned to control the amount of light passing through the lens. Small-numbered openings are used for dim light and "slow" films, largenumbered openings for bright light and "jast" hims.

THE SHUTTER DIAL controls the length of time the shutter is open to pass light through the lens. Iry different settings to see the change in shutter action. High-numbered settings "stop" action; low-numbered settings are for scenes and dim-light pictures.

What makes a Picture?

ATEO CINTAR

THE LENS gathers the light and focuses a clear, sharp image on the film. The range-finder will change the lens focus for you as you line up the rangefinder image. Try focusing on different subjects to see how the lens moves in and out from the camera. THE RANGEINDER 6.

THE RANGEFINDER focuses the lens automatically when the rangefinder image is lined up. This simple method of focusing insures sharp, clear pictures. Even the accessory lenses for your camera are focused in this

easy manner.



### match-matic Picture Taking

Just follow these easy steps for perfect pictures, every time. Of course, you will first load your camera (pages 9-10) and set the film's exposure index on the meter (page 8). Then all you do is—

- 1 SET SHUTTER FOR TYPE OF PICTURE AND MATCH TO METER
- 2 AIM CAMERA AT SUBJECT AND
- 3 FOCUS WITH RANGEFINDER, COCK SHUTTER AND PRESS RELEASE

See the following pages for detailed information on the operation of the Match-Matic C3.







Subject out of focus



Subject in focus

The right eyepiece on the back of the camera is the rangefinder window. Hold the camera as shown, look through the rangefinder window, and turn the rangefinder dial with the finger. Your Match-Matic C3 lens is automatically focused when the rangefinder image is lined up as shown on the bottom of this page. No guesswork—no distance scales to set

After focusing, shift your eye to the viewfinder (the left eyepiece) to compose your picture. Hold the camera in either a vertical or horizontal position to best suit the framing of your subject.

#### shutter settings



Set the shutter release on "I" for regular shutter speeds. For time exposures, turn to "B" and hold the release down for the time desired. Be sure to support the camera and use a cable release when taking time exposures. The first setting to decide on when taking a picture is the shutter number. The shutter dial controls the length of time the shutter is open to admit light to the film. The low-numbered settings hold the shutter open longer than the high-numbered settings. Always set the dial directly on the shutter number, not in-between.

Shutter Setting 6 is for NORMAL picture-taking, such as scenes and people. If you are taking pictures of moving subjects, use 7 or 8 whenever possible.

Shutter Setting 5 must be used for all flashbulb exposures, and can also be used for normal scenes when lighting is too dim to use the normal setting of 6.

Shutter Settings 7 and 8 are for action pictures with 8 being for the fastest action. When using a telephoto lens, use these settings whenever possible to present any camera movement from showing in the picture.

Shutter Setting 4 is the slowest setting, and should be used only when the camera is on a tripod or supported in a similar manner to prevent movement. Use this setting when the lighting is too dim for higher settings.

When using electronic flash units, use shutter setting 5 or higher.



(1) Turn the inner dial on the meter so that one of the index marks points directly at the exposure index of the film you are using. The numbers alternate between the two scales on either side. Exposure indexes (also called ASA film speeds) for different films will be found on page 8 and on the film instruction sheet.

(2) Turn the outer dial so that the pointer lines up with the shutter number you have selected. Always set the shutter dial and the meter dial directly on a shutter number, not in-between.

(3) Aim the camera and attached meter toward your picture subject.

The meter needle will point to either a black or white channel, leading up to the lens opening number to use. If the meter needle indicates a setting between two numbers, set the lens in the same way.

There are three groups of lens opening numbers on the lens mount so that one will always be convenient to see from the top.

- Set pointer to exposure index of your film.
  Setting of 10 is shown.
- Turn outer dial to set pointer at shutter number. Setting of 5 is shown.



S Follow needle
up the channel
to lens opening.
Lens number 6
is shown.



For average scenes, aim the meter directly at the subject and slightly downward to minimize the "reading" from skylight. If your subject is in surroundings that are lighter or darker than the subject itself, arm your meter at close range so that the surroundings do not influence the reading. Try to "read" average tones such as a person's face, or if this is not possible, take a reading from the back of your hand held about 4 inches from the meter. Be careful not to read

The f/stop numbers on the meter dial (directly above the lens numbers) are for use with the C3 accessory lenses.

your own or the meter's shadow.

Set the meter's shutter number pointer (on outer dial) on EVS if you wish to read directly in EVS numbers instead of lens opening numbers. (See page 12.)

Check the "zero adjustment" of your meter occasionally by completely covering the light cell window. If the needle does not read zero, adjust the screw on the back of the meter until it does.

#### **EXPOSURE INDEXES**

,		17 Car (2-2)	14 1293
	Anscochrome Daylight	daylight 32	tungster 8*
	Super Anscochrome Daylight	100	25*
	Kodachrome Daylight	10	5*
	Kodachrome Type F	10*	10*
	High Speed Ektachrome Day.	160	64*
	Ektachrome Daylight	32	10*
	Ektachrome Type F	20*	16*
	Kodacolor	32	20
	*See filter instructions packed with the	ese fila	3.
	BLACK AND WHITE		
	Adox KB14	16	12
	Adox KB17	32	24
	Adox KB21	80	64
	Ansco Super Hypan	500	400
	Kodak Panatomic-X	25	20
	Kodak Plus-X Pan	80	64
	Kodak Tri-X Pan	200	160
	Use daylight exposure index whe	n taki	ng,

Use daylight exposure index when taking pictures in daylight, Use tungsten index when using artificial light such as photofloods.



Loading the Camera

I Open the back by depressing the catch at the end of the cameral-Pull out the rewind lead on the bottom of the camera (the knot







spareze sharter release issocitly for each nicture. Care should be taken to that the force

# Unloading

When the exposure counter dial reads 20 or 36, and you have taken that last picture, you have taken all of the exposures on the film. THE FILM MUST BE REWOUND BACK INTO THE FILM CAMERA BACK. To rewind the film, turn the rewind knob (on the bottom of the camera) in the direction of the arrow. Continue winding until the counter dial stops turning. Turn a few more times to make certain all of the film is rewound, then open the camera back and remove the film cartridge.

Have film processed as soon as possible after exposing. All types of film may be taken to your Argus dealer.



Although your camera's LC3 exposure meter gives lens openings directly without any calculations, you may wish to know the basis for Match-Matic operation.

Your Match-Matic C3 uses an adaptation of the exposure-value system (EVS), You will find exposure-value numbers listed under the daylight exposure table on the data sheet packed with the film.

The outdoor exposure guide on this page also lists exposure-value recommendations for different films under different lighting conditions. To use these numbers with your camera, all you have to do is to decide which shutter setting you want and subtract it from the exposure value to find the correct lens opening.

These values are for average subjects. For dark subjects, subtract I from the exposure value; for light subjects, add 1.

#### outdoor exposure guide IN EXPOSURE VALUES

COLOR FILM

Anscochrome Daylight

Ektachrome Davlight

Kodachrome Daylight

(or indoor type")

Ektachrome Type F\*

Bright Hazy Cloudy Cloudy

Swn

13 12

111/2 101/2

Sun

12% 11% 10%

10

91/4

914 814

Super Anscochrome Daylight	141/2	131/2	121/2	111/2
Kodacolor	13	12	11	10
BLACK AND WHITE	N TOTAL	1000	William	1000
Kodak Panatomic-X	13	12	11	10
Kodak Plus-X Pan	14	13	12	11
Ansco Super Hypan	16%	151/2	14%	13%
Kodak Tri-X Pan	16	15	14	13
*Filters must be used with it				



The blue numbers on the rangefinder dial are the Flash Finder numbers. The numbers as they appear on the dial apply to Kodachrome Daylight film with Sylvania Press 33B flashbulbs. To find the correct lens opening to take a picture using this film and flashbulb, focus on the subject with the rangefinder and set the lens to the Flash Finder number in-

dicated by the index mark.

For correct lens openings with other films and flashbulbs, consult the decal on the back of your flashgun reflector or the flash exposure guide on page 14 for additions to the Flash Finder number.

Unscrew bottom cap of flashgun and insert two size C PHOTOFLASH batteries or a BC unit. Press red button on top of flashgun to eject used flashbutlss.



EXAMPLES: Using Kodachrome Daylight film and Sylvania Press 25B flashbulbs, you focus on your subject and find the Flash Finder reads 5. Set the lens opening at 5 for correct exposure.

Using Anseo Supreme film and Sylvania Bantam 8 flashbulls, you focus on the subject and find the Flash Finder reads 4. The table on this page says to add 2 for this film and flashbulls, therefore you add 2 to the Flash Finder reading of 4 and arrive at 6. Set the lens opening at 6. USE A SHUTTER SETTING OF 5 (Q) WITH ALL TYPES OF FLASHBULBS. Use shutter settings 5 through 8 with

Flashbulbs occasionally shatter, and to avoid any possible damage, a shield of translucent material may be used over the face of the reflector. Never use flash in an explosive atmosphere.

electronic flash units.

#### flash exposure guide

FILM ♥ BULB ▶	Sylvania Bantam 8	Sylvania Press 25	Sylvania Press 25B
Ektachrome Type F	add 1	add 21/2	-
Kodachrome Type F	add 1/2	add 2	-
Kodachrome Type A	add 1/2°	add 1*	1/-
Kodacolor	add 1	add 21/2	
Ektachrome Daylight Anscochrome Daylight	Use blue flashbulbs with Daylight		add 2
Kodachrome Daylight			0
Super Anscochrome Daylight		film.	add 31/2
Kodak Tri-X	add 4	add 5	-
Kodak Plus-X	add 21/2	add 4	-
Ansco Supreme	add 2	add 3	-
Kodak Panatomic-X	add 1	add 21/2	-
****		_	10000

<sup>\*81</sup>C-type filter required



## Hints on Flash

Always set the lens opening to the exact value the Flash Finder indicates. For example, you may find that the index mark. after focusing, will fall between two numbers. Set the lens opening in the same manner

If it is found that a lens number larger than 8 is necessary for some close-up flash pictures, use one or more thicknesses of white handkerchief over the flash reflector to reduce the amount of light from the flashbulb. One thickness will reduce the light by approximately one number, two thicknesses by two numbers, and so on. For example, if the Flash Finder number is 8, and the required addition to that number is 2, the lens opening necessary would be 10. Use two thicknesses of handkerchief over the reflector and set the lens opening at 8,

For other film and flashbulb combinations and for electronic flash units, change the recommended guide numbers to Flash Finder numbers.

NUMBERS	FINDER NUMBER
23 - 26	- subtract 2
27-32	- subtract 11/2
33-40	- subtract 1
41 - 48	- subtract 1/2
49 - 58	0
59-68	add 1/2
69 - 80	add 1
81 - 94	add 11/2
95 - 115	add 2
116-138	add 21/2
139 - 165	add 3
166 - 195	add 31/2
196-232	add 4
233-277	add 41/2
278-330	add 5

## Care

#### and servicing of camera

Your Match-Matic C3 is a fine camera and worth caring for. To keep your C3 and LC3 Exposure Meter in perfect working order, protect them from dust, moisture, and heat. Do not store the camera in your car's glove compartment or any other place where temperature tends to rise. The fine lens of your C3 is ground, polished, and coatell with extreme precision. If it needs cleaning, blow off the dust first, then use a soft brush with a light tauch or clean it with lens tissue. Use lens cleaning fluid only if it becomes absolutely necessary. Working parts of your C3 contain fine threads, tiny screws, and sensitive adjustments. Neverforce any parts of the cangea to work if they resist.

For service or replacement parts, contact your local Argus dealer or write to: CUSTOMER SERVICE DEPARTMENT, ARGUS CAMERAS, ANN ARBOR, MICHIGAN OF ARGUS CAMERAS OF CANADA, LTD., TORONTO, ONTARIO

#### Putting Depth in your Picture















# lens and shutter Comparisons

Your Match-Matic C3 uses "additive" numbers for the lens openings and shutter settings.

The lens openings and their equivalent f/stops are:

31/2	4	5	6	7	8
1/3.5	1/4	1/5.6	1/8	1/11	1/16

The shutter settings and their equivalent speeds in fractions of a second are:

4	6	6	7	8
1/10	1/30	1/60	1/125	1/300

#### filters



Your camera lens has a built-infilters and supplementary lenses. To insert filter, unscrew retaining ring, drop filter in front of lens, and replace ring. The filter can be held in by a standard Series V lens shade if desired.

When using filters with your camera, divide the film's exposure index by the filter factor. Set the result on the meter's exposure index scale.

#### SPECIFICATIONS

PICTURE SIZE: 1" x 13/6" transparencies in 2" x 2" mounts, or 334" x 434" standard photo-finishers' blackand-white prints.

FILM SIZE: 35mm cartridge (size 135), 20 or 36 exposure, color or black and white film.

LENS: 50mm f/3.5 Argus Cintar, color-corrected, coated anastigmat; lens openings from 3½ to 8 (f/3.5 to f/16); rangefinder-coupled automatic focusing; screw-type interchangeable lens mount; lens' hyperfocal distance: 46 2" at opening 3½; field covered; 27" x 40° angular at infinity.

SHUTTER: Behind-the-lens type: shutter settings from 4 to 8 (1/10 to 1/300 second) plus Bulb (B) for time exposures; ASA cable release socket; manual cocking lever; synchronized for bayonet-base flashbulbs and X (zero) delay electronic flash units. FLASH: Plug.in type, synchronized through mounting prongs, accepts two size "C" PHOTOFLASH batteries or a B-C power unit; five inch polished reflector with bayonet-base type socket; push-button lamp ejection.

LENS ACCESSORIES: Built-in retaining ring accepts Series V (1-5/4), fifters and supplementary lenses. Standard Series V lens shade can be used in place of the filter retaining ring.

OTHER FEATURES: Rugged, molded body with bright metal and two-tone leather-grain trim, weight 30 ox; hinged, die-cast metal back; automatic exposure counter; LC3 Exposure Meter for accurate exposures; tripod socket; genuine top grain leather carrying case with shoulder strap.

Record your camera's serial number and keep it in a safe place for future reference.



lens and the

Both lenses

couple to the

rangefinder.

installation of the

Argus Telephoto and

Wide Angle Lenses.

100mm TELEPHOTO

Precision made, fourelement 1/4.5 lens cuts distance in half and lets you take candid closeups from far away.

#### 35mm WIDE ANGLE

Provides 87% more picture area than the normal C3 lens. Wonderful for group and scenic pictures. f/4.5. four-element construction.



# Argus 500 electromatic projector



Lets your color-slide show run itself.

Sit back, relax, and watch your slides change at pre-set intervals. If you like, you can change the slides yourself with the remote control. Brilliant, 500 watt blower-cooled illumination combines with the 4" Argus 1/3.3 projection lens for big, life-like pictures, even in a small room.

Other outstanding features include completely electric operation, preheating of slides, remote control, and vinyl-covered metal carrying case.

# Lifetime guarantee

Your Argus Match-Matic C3 Camera and LC3 Meter were manufactured, inspected and tested by skilled craftsmen. They are guaranteed to be free of defects in workmanship or material during their lifetime. If any servicing is necessary because of imperfections in materials or workmanship, your camera and meter will be factory serviced without charge.

Argus equipment which has been damaged, mishandled, or worn from extensive use will be factory serviced at established rates. Equipment purchased as used or rebuilt is not covered by this guarantee.

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