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Adv. 3

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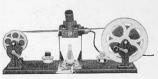
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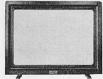
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Adv. 6



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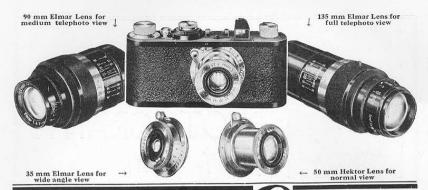
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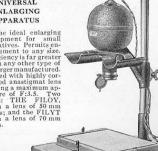
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Adv. 12

New York Los Angeles



Diagram of types of Zeiss Lenses Tessar F/4.5

likewise F/2.7, F/3.5, F/6.3

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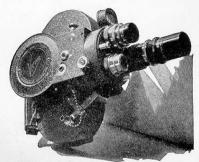
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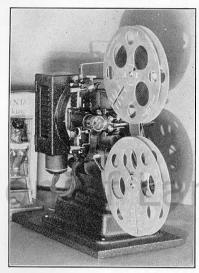
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The American Annual of Photography 1932

Volume XLVI

Edited by

Frank R. Fraprie
Editor of American Photography

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The American Annual of Photography -- 1932

THE CHOICE OF A PRINTING PAPER

DR. B. T. J. GLOVER

HE production of a photograph which is satisfactory from a technical viewpoint is, in the main, a matter of the successful choice and application of a correct exposure to the plate or film, the development of the negative for a time which is necessary to produce a chosen degree of contrast (total negative densityrange) and the choice of a printing paper of characteristics which are suitable for the density-range of the negative thus produced. It is true that no matter how carefully the exposure be calculated and no matter how accurately the time of negative development be gauged to suit the printing paper it is proposed to use, false tone values will result unless panchromatic plates or films which are sensitive to red and green light as well as blue light are made use of, and unless their sensitiveness to ultra-violet light as well as the excessive residual sensitiveness to blue light is cut down by the aid of a suitable light filter. Nevertheless, the correct timing of the exposure and development of plate or film and the choice of a suitable printing paper are fundamental to the problem of the production of technically good prints.

In the paragraphs which follow it is proposed to discuss the factors which need to be considered when choosing a printing paper. It will transpire that both the subject and the negative influence that choice. Before doing so, however, let us refer briefly to some of the considerations which govern the steps taken before a negative is ready for printing.

Subjects which can be photographed are made up of a number of tones of which some are colored and some possess little or black in tone. The task is to produce a

print possessing tones which imitate the relative brightness of the subject-tones, either on a similar tone-scale, or on a contracted tone-scale, or on an expanded tonescale, according to needs and the photographer's wishes. The colored subject-tones cannot, of course, be reproduced as colored tones in an ordinary photograph, but the print-tones which purport to imitate them can and should be made to imitate approximately the brightness of the colored tones. For example, a blue object tends to possess rather a dark tone, partly because blue light is light of a wave length to which the eye is not particularly sensitive, and partly because a blue object reflects but little of the light with which it is illuminated, but absorbs and changes into heat the remainder. So far as the eye and a photographic plate are concerned, the light absorbed by an object is lost, and only the light reflected by an object is useful. Blue objects, therefore, are best represented by dark print-tones and not by light print-tones, as is so commonly the case. On the other hand, red objects are usually exceedingly bright. partly because red light possesses a wave length to which the eye is highly sensitive, and partly because red objects possess marked power of reflecting any red light which falls upon them, and absorb and turn into heat but little of it. Red objects. therefore, should be represented as light print-tones comparable with the bright impression that a red object produces, and not by dark and dismal print-tones, as is seen so often. Similarly, green objects are brighter than blue objects, but darker than no color and are, therefore, white, grey or red ones, and yellow objects are the brightest of all, by reason of their double reflection

WEIGHTS AND MEASURES

Photographic formulas are almost invariably given in the avoirdupois system, in which the ounce, dry measure, contains 487.5 grains; the liquid ounce contains 480 minims. Occasionally the word "drachm" or "dram" is used, and this usually refers to the apothecaries' system of 60 grains or 60 minims. The avoirdupois "dram" contains 27.34375 grains. The use of this term, as well as "pint" and "gallon" should be avoided as far as possible, as the U. S. pint contains 16 fluid oz., the U. S. gallon 128 fluid oz., and the British pint is 20 fluid oz, the British gallon 160 fluid oz.

The wettir systems should above the deatest.

The metric system should always be adopted. It is easier in practice, as all multiples and subdivisions are in powers of 10. The gramme or gram, and it is not advisable to use this latter form because of the possibility of its being mistaken for grain, is written "g," or "gm," and is the unit for solids. The cubic centimeter, written "ccm," "ccs" or "cc," this last being usual in Europe, is the unit for liquid measures.

The subdivisions are designated by the Latin prefixes "deci" (1/10th), "centi" (1/100th) and "milli" (1/1000th); the multiples by the Greek prefixes "deka" (10), "hecto" (100) and "kilo" (1000). These are rarely used, and 0.1, 0.01 and 0.001 g are general; "kilo" being used for 1000 grammes.

The following tables facilitate with the least trouble the conversion of the one system into the

Lin	TEAR /
Inches Centimeters	Inches Centimeters
0.39371	1 2.540
0.78742	2 5.080
1.18113	3 7.620
1.57484	410.160
1.96855	512.700
2.36226	6,15.240
2.75597	717.780
3.14968	820.320
3.54339	922.860

AREAS

Square Square	Square Square
Inches Centimeters	Inches Centimeters
0.155 1	1 6.452
0.310 2	212.903
0.465 3	319.355
0.620 4	425.807
0.755 5	532.258
0.930 6	638.710
	. 745.161
1.240 8	851.613
1.395 9	958.065

MASSES

Grains	Grams	Grains	Grams
1	0.0648	15.4324	1
2	0.1296	30.8647	2
3	0.1944	46.2971	3
4	0.2592	61.7294	4
5	0.3240	77.1618	5
6	0.3888	92.5941	6
7	0.4356	108.0265	7
8	0.5184	123.4589	8
9	0.5832	138.8912	

LIQUIDS

Cubic Centimeters Minims	Cubic Centimeters (
2 32 . 460	29.574 59.147 88.721	2
	118.295 147.869	4
6 97.380 7 113.610	177.442 207.016	6 7
8 129 . 840 9 146 . 070	236.590 166.163	

The U. S. gallon = 3785.43 ccm; one liter = 33 fluid oz., 394 minims.

The above tables apply to the English weights and measures, with the exception of the liquid measures; the English gallon measures 160 fluid oz. = 4545.96 cm. The English pint = 20 fluid oz. = 568.245 cm. The following, therefore, must be used for the conversion of the same:

Cubic Centimeters Minims	Cubic Centimeters	
1 16 . 894 2 33 . 788	28.4123 56.8245	
4 67.576	85.2368	
5 84 . 470	113.6490 142.0613	5
6 101 . 364 7 118 . 258	170.4735	
8	198.8858 227.2980	
9 153 . 046	255.7103	9

In writing formulas it is generally understood that the quantity of water given refers to the total bulk of the solution after the salts have been dissolved.

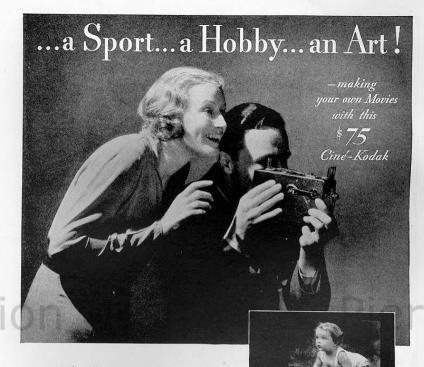
PARTS

Sometimes a formula is given in "parts"; it can then be read either in the metric or duodecimal system, as long as a "part" is taken as the units which may be grains, ounces, pounds or tons, or grammes or cubic centimeters.

As it is unusual to weigh liquids, the grains or pounds of water must be converted into liquid measure, hence 1000 gr. = 2 fluid oz., 137 minims.

PERCENTAGE SOLUTIONS

Photographically a percentage solution is one containing x parts of a solid or liquid in 100. In the case of liquids this is easy of attainment, as it is only necessary to measure out a given number of minims, ounces, or cubic centimeters and add enough water or solvent to make 100 in all. When dealing with solids, which are weighed, confusion may arise from the difference between the dry avoirdupois ounce and the liquid ounce. Thus the former contains 437.5 grains, and if this be dissolved in 10 fluid oz. of water, and it is required to use 1 grain of the salt, if 10 minims be measured, we have actually $437.5 \div (480 \times 10)$ grains = 0.91144 grains. Therefore, in making a 10 per cent solution, using an avoirdupois ounce, the total bulk of the solution should be 437.5×10 minims = 9 oz. 55 min. (approximately 9 oz., 1 drachm).



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	15"	5 x 7	9 -	$2\frac{1}{4}$	148.00
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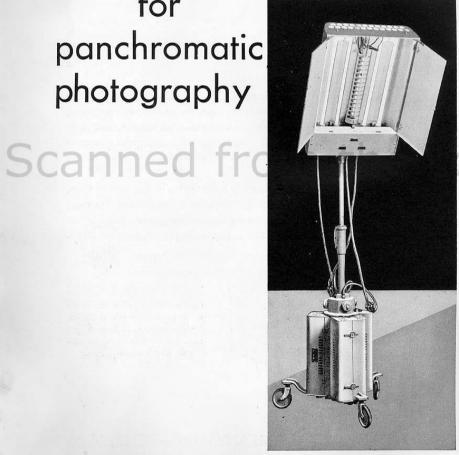
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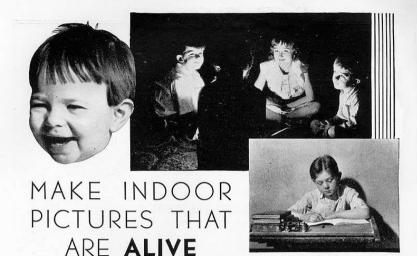
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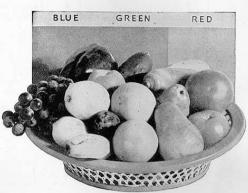
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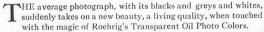
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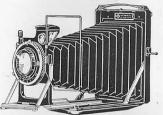
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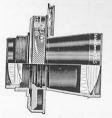
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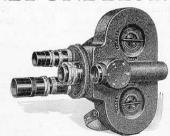
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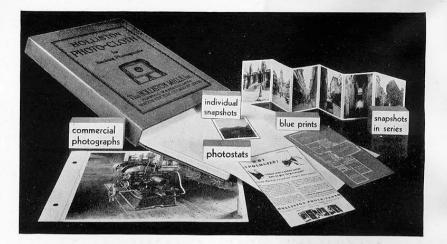
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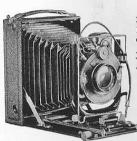
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