

SANGAMO
WESTON

WESTON RATINGS

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Correct exposure depends upon two variables: (1) the available light and (2) its effect on the film in use.

WESTON have always considered these two to be of equal importance and therefore introduced their own system of film ratings. Subsequently this system was found to be so successful that it was widely accepted in photographic circles and formed the basis for internationally agreed standards.

Although primarily written for owners of the latest WESTON MASTER III exposure meter, this booklet can be used with all types of WESTON meter.

Our laboratories are continually engaged on rating new and existing emulsions using a conventional M.Q. developer for roll and sheet film and plates, and M.Q.-Borax for 35mm stock. However, there will obviously be changes and additions occurring after publication of this booklet and when in doubt the B.S. or A.S.A. arithmetical index will serve as a convenient starting point if used with developers as indicated above.

For photoflood lamps use tungsten values.

FOR WESTON MASTER III UNIVERSAL AND ALL CINE MODELS

use the ratings as given on the following pages.

If the film you are using is not shown, use the B.S. or A.S.A. arithmetical index recommended by the manufacturer. Or—ciné models only—if the required value does not appear on the calculator dial, the nearest available rating should be used. For colour ciné work, the nearest lower rating is recommended.

FOR WESTON MASTER II UNIVERSAL AND FOR EARLIER UNIVERSAL MODELS

use the next lower rating on your meter in preference to the one shown in this booklet.

If the film you are using is not shown, use the next lower rating to the B.S. or A.S.A. arithmetical index recommended by the manufacturer.

For example if this booklet shows a WESTON RATING of 200 you should set your meter to 160. Alternatively, if the film is not shown but the B.S. or A.S.A. arithmetical index is given as 64 your meter should be set to 50.

When using a particular type of film for the first time, it is advisable to confirm that the correct Weston Rating has been used before exposing a large quantity. Equipment errors can lead to under or over exposure and the listed Weston Rating should be lowered if results are under exposed or raised if over exposed.

**DIE NACH WESTON
GEMESENNE FILMEMPFINDLICHKEIT
FÜR DEN WESTON MASTER III
UNIVERSAL-BELICHTUNGSMESSER UND ALLE
KINO-MODELLE**

Man benütze die auf den folgenden Seiten angeführten Werte.

Ist der verwendete Film hingegen nicht angeführt, dann benütze man die B.S. oder A.S.A. Tabelle, die vom Hersteller empfohlen wird.

Wenn bei Kino-Modellen die B.S. oder A.S.A. Werte auf der Einstell-Skala nicht angeführt sind, dann verwende man den nächstliegenden Wert. Bei Verwendung von Farbfilmen wird der nächstkleinere Wert empfohlen.

**FÜR DEN WESTON MASTER II UND
FRÜHERE UNIVERSAL-MODELLE**

Man benütze eher den nächstkleineren Wert auf seinem Belichtungsmesser als den in diesem Büchlein angegebenen.

Ist der verwendete Film hingegen nicht angeführt, dann benütze man in Bezug auf den vom Hersteller empfohlenen B.S. oder A.S.A. Wert den nächstkleineren.

Bei der erstmaligen Verwendung eines bestimmten Filmtyps ist es ratsam, sich zu vergewissern, dass der richtige Wert verwendet wurde, bevor der grössere Teil des Filmes belichtet worden ist. Fehlerquellen, die vom verwendeten Filmapparat herrühren, können zu Unter- oder Ueberbelichtung führen. Die hier angegebenen Weston - Werte sollten im Falle von Unterbelichtung herabgesetzt, im Falle von Ueberbelichtung heraufgesetzt werden.

RAPIDITÉ D'EMULSION WESTON

POUR MODÈLE WESTON MASTER III UNIVERSEL ET TOUS MODÈLES POUR FILM CINÉ

Employer les chiffres de rapidité d'émulsion donnés aux pages suivantes.

Si la pellicule que vous employez n'y figure pas, appliquer l'indice B.S. ou A.S.A. recommandé par le fabricant.

Sur les modèles pour film Ciné, lorsque les valeurs d'indice B.S. ou A.S.A. ne sont pas portées sur le cadran du calculateur, on devra appliquer le chiffre de rapidité d'émulsion disponible le plus voisin. Pour la photographie en couleurs, il est recommandé de prendre le chiffre inférieur le plus rapproché.

POUR LE MODÈLE WESTON MASTER II ET LES MODÈLES TYPE UNIVERSEL ANTÉRIEURS

Employer le chiffre de rapidité d'émulsion inférieur suivant indiqué sur votre posemètre, de préférence à celui qui figure dans cette brochure.

Si la pellicule que vous employez n'y figure pas, appliquer le chiffre de rapidité suivant inférieur à l'indice B.S. ou A.S.A. recommandé par le fabricant.

Lorsqu'on emploie un type de pellicule particulier pour la première fois, il est plus prudent de vérifier si l'on a bien appliqué le chiffre de rapidité d'émulsion Weston qui convient, avant d'exposer beaucoup de pellicule. Les erreurs dues au matériel sont souvent la cause d'un manque ou d'un excès de pose, il faudra donc prendre un chiffre de rapidité Weston, dans la liste, plus petit si les résultats révèlent une insuffisance de pose, ou plus grand en cas de surexposition.

VELOCIDADES WESTON

PARA EL WESTON MASTER III UNIVERSAL Y TODOS LOS MODELOS DE CINE

Adopte las velocidades que se indican en las páginas siguientes.

Si no ha sido incluída la película que Vd. emplea, adopte el índice B.S. o A.S.A. recomendado por el fabricante.

En los modelos cinematográficos, cuando no aparecen sobre el cuadrante del calculador los valores de índice B.S. o A.S.A. deberá adoptarse la velocidad próxima disponible. Para los trabajos en colores se recomienda la velocidad más baja inmediata.

PARA EL WESTON MASTER II Y LOS MODELOS UNIVERSALES PRECEDENTES

Adopte la velocidad inmediatamente más baja sobre su medidor con preferencia a la indicada en el presente librito.

Si no ha sido incluída la película que Vd. emplea, adopte la velocidad inmediatamente más baja del índice B.S. o A.S.A. recomendado por el fabricante.

Cuando se emplea un tipo determinado de película por la primera vez, se recomienda confirmar que ha sido adoptada la Velocidad correcta antes de efectuar una gran cantidad de exposiciones. Los errores en el equipo pueden dar lugar a una exposición insuficiente o excesiva y se deberá reducir la Velocidad Weston catalogada si los resultados acusan una exposición insuficiente o aumentar si ésta es excesiva.

WESTON RATINGS FOR STILL CAMERA FILMS AND PLATES

ADOX		Daylight	Tungsten
Roll Film			
Panchromatic R23P	...	125	100
Panchromatic R21P	...	80	64
Panchromatic R17P	...	32	24
Panchromatic R14P	...	16	12
Orthochromatic R.180	..	40	20
Miniature 35mm Film			
Panchromatic KB.21	...	80	64
Panchromatic KB.17	...	32	24
Panchromatic KB.14	...	16	12
Sheet Film			
Panchromatic PL.21.PM	...	80	64
Panchromatic PL.21.PT	...	80	64
Filmpack			
Panchromatic FP.21	...	80	64
AGFA			
Roll Film			
Isopan Ultra	...	200	320
Isopan ISS	...	80	40
Isopan F	...	32	20
Isopan FF	...	16	12
Isochrom	...	50	32
Miniature 35mm Film			
Isopan Ultra	...	200	320
Isopan ISS	...	80	40
Isopan F	...	32	20
Isopan FF	...	16	12

WESTON RATINGS FOR STILL

AGFA (Continued)

Sheet Film

			Daylight	Tungsten
Isopan ISS	...	...	80	40
Isopan Portrait	...	...	80	40
Isopan F	...	...	32	20

ANSCO

Roll Film

Supreme	50	32
All Weather Pan	64	50

Miniature 35mm Film

Supreme	50	32
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Sheet Film

Triple S. Pan	200	160
Superpan Press	125	80
Isopan	50	32
Superpan Portrait	50	32
Triple S. Ortho	...	...	125	64
Commercial Ortho	25	12
Commercial	25	6

CRUMIERE

Roll and Sheet Film

Avapan	125	100
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Miniature 35mm Film

Avapan	64	50
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CAMERA FILMS AND PLATES

FERRANIA

Daylight Tungsten

Roll and Sheet Film

Pancro S4	250	160
Pancro 32	...	...	...	100	80
Pancro 28	...	...	...	40	32
Ultracromatica	...	...	...	64	32

Miniature 35mm Film

Pancro S2/32	...	...	...	100	80
Pancro P3/28	...	...	...	40	32

Plates

Super Rapida	Pancro	Antialo	125	100
Superex	..	...	80	64
Ultra Pancro	30	...	64	50
Fine Pancro	...	...	24	20
Super Orto	...	...	100	100
Extra Rapida	...	...	12	12

GEVAERT

Roll Film

GevaPan 36	...	...	...	250	160
GevaPan 33	...	...	...	125	80
GevaPan 30	...	...	...	64	40
GevaPan 27 (Microgran)	...	...	...	32	20
Gevachrome 30	...	...	...	64	32
Infra-R...	...	...	...	40*	50*

*With Gevaert No. 719 Filter

WESTON RATINGS FOR STILL

GEVAERT (Continued)

Daylight Tungsten

Miniature 35mm Film

Gevapan 36	...	...	...	250	160
Gevapan 33	...	...	...	125	100
Gevapan 30	...	...	...	64	40
Gevapan 27 (Microgran)	...	...	...	32	20
Dia Direct 26 Pan (Reversal)	...	...	...	24	16

Sheet Film

Gevapan 36	...	...	...	250	160
Gevapan 33	...	...	...	125	100
Gevapan 30	...	...	...	64	40
Gevachrome 32	...	...	...	100	50

Plates

Gevapan 36	...	...	...	250	160
Gevapan 33	...	...	...	125	80
Gevapan 30	...	...	...	64	40
Gevapan 27	...	...	...	32	20
Gevachrome 32	...	...	...	100	50

ILFORD

Roll Film

H.P.S.	...	...	...	400	320
H.P.3	...	...	...	200	160
Selochrome (Panchromatic)	...	...	...	80	64
F.P.3	...	...	...	64	50

CAMERA FILMS AND PLATES

ILFORD (Continued)

Miniature 35mm Film

				Daylight	Tungsten
H.P.S.	...	...	...	400	320
H.P.3	...	...	...	200	160
F.P.3	...	...	...	64	50
Pan. F.	...	...	...	24	16

Sheet Film

H.P.S.	...	...	...	400	320
H.P.3	...	...	...	200	160
F.P.3	...	...	...	64	50
Hyperchromatic	...	...	...	200	100
G.8.30 Commercial Ortho	...	...	...	40	20

Plates

H.P.S.	...	...	...	400	320
H.P.3	...	...	...	200	160
F.P.4	...	...	...	80	50
R.10 Soft Gradation Pan.	...	...	...	50	32
R.25 F.P. Special	...	...	...	40	32
R.20 Special Rapid Pan.	...	...	...	24	16
Selochrome	...	...	...	80	40
G.30 Chromatic	...	...	...	5	2.5
Special Rapid	...	...	...	10	2.5

WESTON RATINGS FOR STILL

KODAK		Daylight	Tungsten
Roll Film			
Tri-X ...	...	200	160
Verichrome Pan.	...	80	64
Panatomic X ...	...	24	20
Miniature 35mm Film			
Tri-X ...	...	200	160
Plus-X ...	...	80	64
Quick-finish Panchromatic	...	40	32
Panatomic-X ...	...	24	20
Sheet Film			
Panchro-Royal	...	200	160
Super-XX	...	100	80
Plus-X ...	...	80	64
Ortho-Royal	...	200	125
Commercial Ortho	...	24	8
Commercial Fine-Grain	...	20	4
Plates			
P.2000 ...	...	500	400
P.1600 ...	...	200	160
P.1200 ...	...	200	160
P.300 ...	...	24	20
0.800 ...	...	64	32
0.250 ...	...	8	3
PERUTZ			
Roll Film			
Peromnia 25 ...	...	250	160
Peromnia 21 ...	...	100	64

CAMERA FILMS AND PLATES

PERUTZ		Daylight	Tungsten
Roll Film (Continued)			
Perpantic 18	50
Persenso	50
Miniature 35mm Film			
Peromnia	100
Perpantic	40
Pergrano 14	16
35mm Reversal	24
Sheet Film			
Peromnia 25	250
Superomnia	100
Portrait	100
Perpantic	40
Plates			
Superomnia	125
Portrait	100
Peromnia	64
Perchromo	40
Persenso	80
Silver Eosin	12
			6

Note: Where high contrast material and developments are employed, exposure is very critical and for the best results a practical trial is advisable.

WESTON RATINGS

ANSCO

		Daylight	Tungsten
Supreme Negative	...	64	50
Triple S. Pan (Reversal)	...	125	100
Hypan (Reversal)	...	50	32

FERRANIA

Pancro 37 (Reversal)	...	320	320
Pancro 32 (Reversal)	...	100	80
Pancro 28 (Reversal)	...	40	32

GEVAERT

Gevapan 33 (Negative)	...	125	100
Gevapan 27 (Negative)	...	32	24
Gevapan 32 Ultra (Reversal)	...	100	64
Gevapan 26 Super (Reversal)	24		16
Gevapan 23 Micro (Reversal)	12		8

FOR CINÉ FILM

ILFORD

			Daylight	Tungsten
H.P.S. Negative	...	...	400	320
H.P.3 Negative	...	...	200	160
F.P.3 Negative	...	...	64	50
Pan. F. Negative	...	...	24	16

KODAK

Tri-X (Negative)	...	...	320	250
Plus-X (Negative)	...	...	80	64
Tri-X (Reversal)	...	...	200	160
Plus-X (Reversal)	...	...	50	40
Super-X (Reversal)	...	...	40	32

PATHE

Super Pan V.F.	...	...	100	80
S.X. Panchromatic	...	...	24	20
S.S. Panchromatic	...	...	12	10

COLOUR PHOTOGRAPHY

When using a particular type of film for the first time it is advisable to confirm that the correct Weston Rating has been used before exposing a large quantity. Equipment errors can lead to under or over exposure and the listed Weston Rating should be lowered if results are under exposed or raised if over exposed.

STILL FILMS

ADOX

	Daylight	Tungsten
Negative Daylight Type R-CNT	24	—
Negative Daylight Type KB-CNT	24	—

AGFA

Agfacolor CN17 (Negative) .	32	32
Agfacolor CT18 (Reversal) ...	40	—
Agfacolor CK (Reversal) ...	—	32

ANSSCO

Super Anscochrome (Daylight type)	100	40*
Anscochrome (Daylight type) ...	32	12*
Anscochrome (Flash type) ...	25†	20‡
Anscochrome (Tungsten type)	20††	25

* With Wratten No. 80B or Ansco No. 10 Filter

† With Wratten No. 85C Filter

‡ With Wratten No. 82A Filter

†† With Wratten No. 85B or Ansco No. 11 Filter

AND COLOUR FILM RATINGS

STILL FILMS (Continued)

EKTACHROME

(see under Kodak)

Daylight Tungsten

FERRANIA

Reversal Daylight	...	...	10	—
Reversal Artificial Light	...	—	—	10
Negative	...	...	10	10

GEVAERT

Reversal Daylight Type R.5	24	—
Negative Daylight Type N.5	24	—

ILFORD

Reversal Type D	...	...	10	2.5*
Reversal Type F	...	...	10§	{ 16‡ 10†‡

* Photoflood with Ilford No. 351 Filter

† Photoflood without Filter

§ Daylight with Ilford No. 172 Filter

†† Photoflood with Ilford No. 362 Filter

COLOUR PHOTOGRAPHY

STILL FILMS (Continued)

KODAK

EKTACHROME

			Daylight	Tungsten
Daylight Type (E2)	...	...	32	12*
Type F (E2)	...	...	16†	16‡
Daylight Type (E1)	...	...	12	6*
Type B (E1)	...	...	6††	10

KODACHROME

Reversal Daylight Type	10	5*
Reversal Type A	10‡‡	16

KODACOLOR

Negative	32	20§
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* Photoflood with Wratten No. 80B Filter

† With Wratten No. 85C Filter

‡ Photoflood with Wratten No. 82A Filter

†† With Wratten No. 85B Filter

‡‡ With Wratten No. 85 Filter

§ Photoflood and Wratten No. 82A Filter for shutter speeds faster than half a second.

RAYCOLOR

Negative Universal	40	40
Reversal Type R32	32	—

PAKOLOR

Daylight	40	12*
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* With Ilford No. 830 Filter or Wratten No. 80A

AND COLOUR FILM RATINGS

CINÉ FILMS

AGFA

	Daylight	Tungsten
Agfacolor Type T (Reversal)	20	—
Agfacolor Type K (Reversal)	—	20

ANSCO

Super Anscochrome (Daylight)	100	40*
Anscochrome (Daylight Type)	32	12*
Anscochrome (Tungsten Type)	25††	32

* With Wratten No. 80B or Ansco No. 10 Filter

†† With Wratten No. 85 or Ansco No. 11 Filter

EASTMAN

Negative Type 5248	...	16††	24
†† With Wratten No. 85B Filter			

FERRANIA

Reversal Daylight 16mm	...	10	—
Reversal Artificial Light 16mm	—	—	10
Reversal Daylight 8mm	...	8	—

KODACHROME

Reversal Daylight Type	...	10	5*
Reversal Type A	...	10††	16

* Photoflood and Wratten No. 80B Filter

†† With Wratten No. 85 Filter

PATHESCOPE

Reversal Daylight Type	...	12	—
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ADDITIONAL COPIES OF THIS
LIST ONE SHILLING EACH

To the best of our knowledge, the information contained in this booklet is correct. However, we cannot be held responsible for any changes, errors or omissions.

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