

This manual is for reference and historical purposes, all rights reserved.

**This page is copyright© by M. Butkus, NJ.**

This page may not be sold or distributed without the expressed permission of the producer

I have no connection with any camera company

On-line camera manual library

This is the full text and images from the manual. This may take 3 full minutes for the PDF file to download.

**If you find this manual useful, how about a donation of \$3 to: M. Butkus, 29 Lake Ave., High Bridge, NJ 08829-1701 and send your e-mail address so I can thank you. Most other places would charge you \$7.50 for a electronic copy or \$18.00 for a hard to read Xerox copy.**

**This will allow me to continue to buy new manuals and pay their shipping costs.**

**It'll make you feel better, won't it?**

**If you use Pay Pal or wish to use your credit card,  
click on the secure site on my main page.**

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.*

**SANGAMO WESTON LIMITED**  
**Enfield, Middlesex, England**

*Telephone Enfield 3434 (6 lines)  
Enfield 1242 (6 lines)*

*Telegraphic Address SANWEST ENFIELD*

**Scottish Factory**  
**Port Glasgow, Renfrewshire**

*Telephone Port Glasgow 41151*

*Branches at*

London · Glasgow · Manchester · Newcastle-on-  
Tyne · Leeds · Liverpool · Wolverhampton  
Nottingham · Bristol · Southampton



**WESTON**  
**RATINGS**

## WESTON RATINGS

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 35 mm. 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 CINÉ 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, use of the next 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

### GEMESSENE 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.

Ou bien—sur les modèles Ciné seulement—lorsque les valeurs requises ne figurent pas sur le cadran du calculateur, 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 incluida la película que Vd. emplea, adopte el índice B.S. o A.S.A. recomendado por el fabricante.

O bien — en los modelos cinematográficos únicamente — si no aparece sobre el cuadrante del calculador el valor de índice deseado se recomienda adoptar 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 incluida 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

#### Roll Film

				Daylight	Tungsten
R 25	...	...	...	320	250
R 21	...	...	...	100	80
R 17	...	...	...	40	32
R 14	...	...	...	20	16

#### Miniature 35 mm Film

KB 25	...	...	...	320	250
KB 21	...	...	...	100	80
KB 17	...	...	...	40	32
KB 14	...	...	...	20	16

#### Sheet Film

PL 25	...	...	...	320	250
PL 21	...	...	...	100	80
PL 17	...	...	...	40	32

#### Filmpack

FP 21	...	...	...	100	80
-------	-----	-----	-----	-----	----

### AGFA

#### Roll Film

Isopan Record	...	...	...	650	650
Isopan Ultra	...	...	...	250	400
Isopan ISS	...	...	...	100	64
Isopan F	...	...	...	40	24
Isopan FF	...	...	...	16	12

**AGFA (Continued)**

**Miniature 35 mm Film**

	Daylight	Tungsten
Isopan Record ... ..	650	650
Isopan Ultra ... ..	250	400
Isopan ISS ... ..	100	64
Isopan F ... ..	40	24
Isopan FF ... ..	16	12

**Sheet Film**

	Daylight	Tungsten
Isopan Ultra ... ..	250	400
Isopan Portrait ... ..	80	50
Isopan FF ... ..	16	12

**ANSCO**

**Roll Film**

	Daylight	Tungsten
Super Hypan ... ..	500	400
All Weather Pan ... ..	64	50
Supreme ... ..	50	32

**Miniature 35 mm Film**

	Daylight	Tungsten
Supreme ... ..	50	32

**Sheet Film**

	Daylight	Tungsten
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**

	Daylight	Tungsten
Aviapan ... ..	125	100

**Miniature 35 mm Film**

	Daylight	Tungsten
Aviapan ... ..	64	50

**FERRANIA**

**Roll and Sheet Film**

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

**Miniature 35 mm Film**

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

**Plates**

	Daylight	Tungsten
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**

Daylight Tungsten

**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

**Miniature 35 mm 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**

Daylight Tungsten

**Roll Film**

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

**Miniature 35 mm Film**

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
G8.30 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

### Roll Film

	Daylight	Tungsten
Royal-X Pan ... ..	650	500
Tri-X ... ..	200	160
Verichrome Pan. ... ..	80	64
Panatomic-X ... ..	24	20

### Miniature 35 mm Film

	Daylight	Tungsten
Tri-X ... ..	200	160
Plus-X ... ..	80	64
Quick-finish Panchromatic ... ..	40	32
Panatomic-X ... ..	24	20

### Sheet Film

	Daylight	Tungsten
Royal-X Pan ... ..	650	500
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

	Daylight	Tungsten
P.1600 ... ..	200	160
P.1200 ... ..	200	160
P.300 ... ..	24	20
0.800 ... ..	64	32
0.250 ... ..	8	3

# CAMERA FILMS AND PLATES

## PERUTZ

### Roll Film

	Daylight	Tungsten
Peromnia 25 ... ..	250	320
Peromnia 21 ... ..	100	64
Perpantic 18 ... ..	50	32

### Miniature 35 mm Film

	Daylight	Tungsten
Peromnia 25 ... ..	250	320
Peromnia 21 ... ..	100	64
Perpantic 17 ... ..	40	24
Pergrano 14 ... ..	20	12

### Sheet Film

	Daylight	Tungsten
Peromnia 25 ... ..	250	320
Superomnia ... ..	100	64
Perpantic 17 ... ..	40	24

### Plates

	Daylight	Tungsten
Superomnia ... ..	125	80
Portrait ... ..	100	64
Peromnia ... ..	64	40
Perchromo ... ..	40	24
Persenso ... ..	80	40
Silver Eosin ... ..	12	6



If the required value does not appear on the calculator dial, use of the next lower rating is recommended.

## FERRANIA

	Daylight	Tungsten
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

## 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
Panatomic-X (Reversal)	... 24	20

## PATHE

Super Pan V.F. (Reversal)	... 100	80
S.X. Panchromatic (Reversal)	24	20

## PERUTZ

Perkine Negative 27	... 400	320
Perkine Negative 21	... 100	80
Perkine Negative 17	... 40	32
Perkine Reversal 27	... 400	320
Perkine Reversal 21	... 100	80
Perkine Reversal 15	... 24	20

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**

	Daylight	Tungsten
<b>ADOX</b>		
Negative Type NC 17 ...	40	—
Reversal Daylight Type C 15	24	—
<b>AGFA</b>		
Agfacolor CN17 (Negative)	40	40
Agfacolor CN14 (Negative)	20	20
Agfacolor CT18 (Reversal) ...	50	—
Agfacolor CK (Reversal) ...	—	40
<b>ANSCO</b>		
Super Anscochrome (Daylight type) ... ..	100	40*
Super Anscochrome (Tungsten type) ... ..	80††	100
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

**STILL FILMS (Continued)**

<b>EKTACHROME</b>	Daylight	Tungsten
<b>EKTACOLOR</b>		
(see under Kodak)		

**FERRANIA**

Reversal Daylight ... ..	20	—
Reversal Artificial Light ...	—	20
Negative ... ..	10	10

**GEVAERT**

Reversal Daylight Type R.5	40	—
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

**STILL FILMS (Continued)**

	Daylight	Tungsten
<b>KODAK</b>		
Ektachrome Daylight Type (E2)	32	12*
Ektachrome Type F (E2) ...	16†	16‡
Ektachrome Daylight Type (E1)	12	6*
Ektachrome Type B (E1) ...	6††	10
Ektacolor Negative type S ...	24†	{ 20‡ 16††† 12** 25††††
Ektacolor Negative type L ...	20††	{ 5* 16
Kodachrome Daylight Type ...	10	5*
Kodachrome Type A ...	10‡‡	16
Kodacolor Negative ...	32	20§

\* 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 with Wratten No. 82A Filter for shutter speeds faster than half a second  
 ††† With Wratten No. 82C Filter and 3200°K lamps  
 \*\* Photoflood with Wratten No. 81A Filter and five second exposure  
 †††† With 3200°K lamps and 1/5 second exposure (Speed decreases with longer exposure, see maker's data)

**PAKOLOR**

Daylight Super 40 Neg ...	40	12*
---------------------------	----	-----

\* With Ilford No. 830 or Wratten No. 80A Filter

**RAYCOLOR**

Negative Universal ...	40	40
Reversal Type R32 ...	32	—

**CINÉ FILMS**

If the required value does not appear on the calculator dial, use the next lower rating.

**ANSCO**

	Daylight	Tungsten
Super Anscochrome (Daylight)	100	40*
Super Anscochrome (Tungsten)	80††	100
Anscochrome (Daylight Type)	32	12*
Anscochrome (Tungsten Type)	25‡‡	32

\* With Wratten No. 80B or Anso No. 10 Filter  
 ‡‡ With Wratten No. 85 or Anso No. 11 Filter  
 †† With Wratten No. 85B or Anso No. 11 Filter

**EASTMAN**

Negative Type 5248 ...	16††	24
------------------------	------	----

†† With Wratten No. 85B Filter

**FERRANIA**

Reversal Daylight 16 mm ...	20	—
Reversal Artificial Light 16 mm	—	20
Reversal Daylight 8 mm ...	20	—

**GEVAERT**

Reversal Daylight R5 ...	10	—
--------------------------	----	---

**KODACHROME**

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

\* Photoflood with Wratten No. 80B Filter  
 ‡‡ With Wratten No. 85 Filter

**PATHESCOPE**

Reversal Daylight Type ...	20	—
----------------------------	----	---