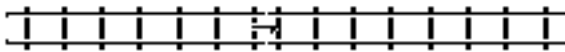




Conversion Tables

To Convert	Into	Multiply By
Centimeters	inches	.394
Cubic centimeters	cubic inches	.061
Cubic feet	cubic meters	.028
Cubic inches	cubic centimeters	16.387
Cubic meters	cubic feet	35.315
Cubic meters	cubic yards	1.308
Cubic yards	cubic meters	.765
Feet	meters	.305
Gallons (imperial)	liters	4.506
Gallons (U.S.)	liters	3.785
Grams	ounces (avdp.)	.035
Inches	centimeters	2.540
Inches	millimeters	25.400
Kilograms	pounds	2.205
Kilometers	miles	.621
Liters	gallons (imperial)	.220
Liters	gallons (U.S.)	.264
Liters	ounces (fluid)	33.814
Liters	pints	2.113
Liters	quarts	1.057
Meters	feet	3.281
Meters	yards	1.094
Miles	kilometers	1.609
Milliliter (c.c.)	ounces (fluid)	.034
Milliliter	inches	.039
Ounces (avdp.)	grams	28.350
Ounces (fluid)	liters	.030
Ounces (fluid)	milliliters (c.c.)	29.573
Pints	liters	.473
Pounds	kilograms	.454
Quarts	liters	.946
Sq. centimeters	square inches	.155
Square feet	square meters	.093
Square inches	sq. centimeters	6.452
Square kilometers	square miles	.386
Square meters	square feet	10.764
Square meters	square yards	1.196
Square yards	square meters	.836
Ton (2000 lbs.)	ton, metric	.907
Ton, metric	ton (2000 lbs.)	1.102
Yards	meters	.914



J.L. Fisher Crab Dolly 10

Maximum Lift Beam Elevation	63 In.
Minimum Elevation (standard head)	16 in.
Minimum Elevation (long low level head)	.5 in.
Vertical Beam Travel	47 in.
Lift Capacity	500 lbs.
Lifts per system charge	seven
Length	54 in.
Width	26 5/8 in.
Height (operating)	38.5 in.
Height (folded)	25 in.
Minimum Turn Radius (round steering)	22 in.
Minimum Turn Radius (conventional steering)	44 in.
Carrying Weight	420 lbs.
Maximum Dolly Capacity	900 lbs.

J.L. Fisher Crab Dolly 11

Maximum Lift Beam Elevation (level head up)	51 1/2 In.
(level head down)	49 1/2 In.
Minimum Lift Beam Elevation (level head up)	17 1/2 in.
(level head down)	15 1/2 In.
Minimum Lift Beam Elevation (low level head)	3 5/8 in.
Vertical Beam Travel	34 in.
Lift Beam Capacity	200 lbs.
Lifts per system charge	six
Length	44 3/4 in.
Width	25 3/4 in.
Height (operating)	39 5/8 in.
Height (folded)	23 1/4 in.
Minimum Turn Radius (round steering)	16 3/16 in.
Minimum Turn Radius (conventional steering)	33 1/2 in.
Carrying Weight	320 lbs.

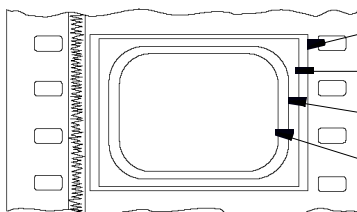
SUPER PEEWEE Dolly

Lens Height (without risers)	5'9"
Low Lens Height (without risers)	37"
Low Lens Height with PEEWEE Drop Down Attachment to Camera Base	3"
Vertical Boom Travel	32"
Carrying capacity of Camera Plate (extended 24" in any direction from the PEEWEE base plate)	250 lbs.
Chassis Maximum Length (wheels fully extended)	43"
Chassis Minimum Length (wheels fully retracted)	34.5"
Minimum Chassis Height for Transportation	16"
Minimum Width Door PEEWEE can be carried through	16"
Minimum Turn Radius	24"
Carrying Weight	280 lbs.

Hybrid Dolly

Lens Height (without risers)	6'7"
Low Lens Height (without risers)	30.5"
Vertical Boom Travel	44"
Carrying Capacity (with 5 good lifts)	500 lbs.
Maximum Boom Lifts (fully charged)	6 Lifts
Chassis Length (maximum)	54 in.
(minimum)	46 in.
Minimum Width Door Hybrid Can Be Carried Through	18"
Minimum Chassis Height for Transportation	18 in.
Minimum Turn Radius	37.5 in.
Carrying Weight	395 lbs.

Camera Aperture



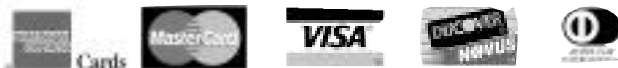
Camera Aperture
0.864" min. x 0.630" min.

TV Transmitted Area
0.792" min. x 0.594" min.

TV Safe Action Area
0.713" min. x 0.535" min.

Safe Title Area
0.630" min. x 0.475" min.

Moving Picture Electronic Services gladly accepts:



CINEMATOGRAPHY electronics

HMI FLICKERFREE FILMING SPEEDS AT ANY SHUTTER ANGLE

60 Hz Line Frequency

120.000	12.000	5.714
60.000	10.909	5.454
40.000	10.000	5.217
30.000	9.231	5.000
24.000	8.571	4.800
20.000	8.000	4.000
17.143	7.500	3.750
15.000	7.058	3.000
13.333	6.666	2.500
	6.315	2.000
	6.000	1.875
		1.500
		1.000

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ALWAYS USE FILM TESTS TO VERIFY RESULTS.

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CINEMATOGRAPHY electronics

60 Hz FLICKERFREE FILMING SPEEDS WITH SPECIFIC SHUTTER ANGLES

71.667	215
70.000	210
66.667	200
65.000	195
63.333	190
57.600	172.8
56.667	170
55.000	165
53.333	160
50.000	150
48.000	144
46.667	140
45.000	135
43.333	130
36.667	110
35.000	105
33.333	100
26.667	80
25.000	75
	210
	200
	160
	150

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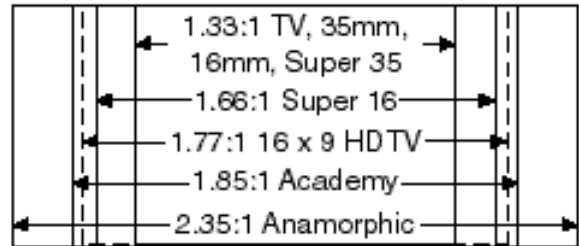


INCIDENT KEY LIGHT / T-STOP
(Foot Candles)

EI/ASA	50	64	80	100	125	160	200	250	320	400	500	EI/ASA
T-stop												T-stop
1.1	32	25	20	16	12	10	8	6	5	4	3	1.1
1.3	40	32	25	20	16	12	10	8	6	5	4	1.3
1.4	50	40	32	25	20	16	12	10	8	6	5	1.4
1.6	64	50	40	32	25	20	16	12	10	8	6	1.6
1.8	80	64	50	40	32	25	20	16	12	10	8	1.8
2	100	80	64	50	40	32	25	20	16	12	10	2
2.2	125	100	80	64	50	40	32	25	20	16	12	2.2
2.5	160	125	100	80	64	50	40	32	25	20	16	2.5
2.8	200	160	125	100	80	64	50	40	32	25	20	2.8
3.2	250	200	160	125	100	80	64	50	40	32	25	3.2
3.6	320	250	200	160	125	100	80	64	50	40	32	3.6
4	400	320	250	200	160	125	100	80	64	50	40	4
4.5	500	400	320	250	200	160	125	100	80	64	50	4.5
5	650	500	400	320	250	200	160	125	100	80	64	5
5.6	800	650	500	400	320	250	200	160	125	100	80	5.6
6.3	1000	800	650	500	400	320	250	200	160	125	100	6.3
7.1	1290	1000	800	650	500	400	320	250	200	160	125	7.1
8	1625	1290	1000	800	650	500	400	320	250	200	160	8



Film Aspect Ratios



The 35mm, 16mm, Super 35 and Super 16 sizes are full aperture ratios, or without any masks.

Popular Film Camera Systems

Camera Name	Format	Sound	Speeds
Arriflex 35-3	35MM	MOS	w/high speed base 6 to 130 FPS
Arriflex 35BL-4S	35MM	Yes	6 to 40 FPS
Arriflex 535	35MM	Yes	3 to 50 FPS
Arriflex 535B	35MM	Yes	3 to 60 FPS
Arriflex 435ES	35MM	MOS	1 to 150 FPS
Arriflex 35-2CHS/B	35MM	MOS	1 to 80 FPS
Arriflex 16SR-2	16MM	Yes	5 to 75 FPS
Arriflex 16SR-2-High speed	16MM	Yes	10 to 150 FPS
Arriflex 16SR-3	16MM	Yes	5 to 75 FPS
Arriflex 16SR-3-High Speed	16MM	Yes	5 to 150 FPS
Arriflex 16BL	16MM	Yes	5 to 50 FPS
Moviecam SL	35MM	Yes	12 to 40 FPS
Moviecam Compact	35MM	Yes	2 to 50 FPS
Panavision Platinum Panaflex	35MM	Yes	4 to 36
Panavision GH Golden Panaflex	35MM	Yes	4 to 34
Panavision Panaflex-X	35MM	Yes	4 to 34
Panaflex Panastar High Speed	35MM	MOS	4 to 120 FPS
Photosonics 35MM 4B/4C	35MM	MOS	High Speed System, 500 to 2500 FPS...500 Frame Intervals
Photosonics 35MM 4B/4C	35MM	MOS	Low Speed System, 250 to 1250 FPS...250 frame increments
Photosonics 35MM-4ER	35MM	MOS	6 to 360 FPS
Aaton 35-IL	35MM	Yes	2 to 32 FPS
Aaton XTRProd	16MM	Yes	1 to 75 FPS
Eclair ACL 16MM	16MM	Yes	12 to 40 FPS
Panavision Panaflex 16MM	16mm	Yes	4 to 36 FPS

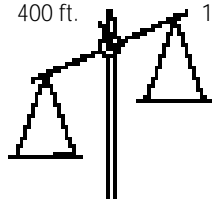
⇒ Super 16MM compatible from manufacturer.
⇒ Super 35MM compatible from manufacturer.
Above cameras may require accessories to achieve desired frame rates.

Film usage per minute (24 FPS)

35mm 90 ft. per minute
16mm 36 ft. per minute

WEIGHT OF FILM IN CANS

35mm Stock	(Approx.)	16mm Stock	(Approx.)
100 ft.	12 oz.	400 ft.	1.5 lbs.
200 ft.	1 lb. 8 oz.		
400 ft.	2 lbs. 8 oz.		



Formula for Calculating Screen Time for Off Speed Shooting

$$\text{Screen Time} = \frac{\text{Shooting Time} \times \text{Shooting Speed (FPS)}}{\text{Projection Speed (FPS)}}$$

If film is transferred to video use transfer (or normal) speed for projection speed. Times can be in increments (frames, seconds, minutes) as long as they are the same units on both sides.

EASTMAN KODAK COLOR NEGATIVE FILM

35mm Stock

Type	ASA
5245 EXR	50 Daylight
5248 EXR	100 Tungsten
5293 EXR	200 Tungsten
5274 VSN	200 Tungsten
5246 VSN	250 Daylight
5277 VSN	320 Tungsten
5279 VSN	500 Tungsten
5298 EXR	500 Tungsten
5620 PT	640 Tungsten
5289 VSN	800 Tungsten

16mm Stock

Type	ASA
7245 EXR	50 Daylight
7248 EXR	100 Tungsten
7293 EXR	200 Tungsten
7274 VSN	200 Tungsten
7246 VSN	250 Daylight
7277 VSN	320 Tungsten
7279 VSN	500 Tungsten
7298 EXR	500 Tungsten
7620 PT	640 Tungsten

VSN = Vision PT = PrimeTime

FUJI COLOR NEGATIVE FILM

35mm Stock

Type	ASA
8510	64 Tungsten
8520	64 Daylight
8530	125 Tungsten
8550	250 Tungsten
8560	250 Daylight
8570	500 Tungsten

16mm Stock

Type	ASA
8610	64 Tungsten
8620	64 Daylight
8630	125 Tungsten
8650	250 Tungsten
8660	250 Daylight
8670	500 Tungsten

Above stocks also available in Fuji Super F-series



Rental Inventory & Services



748 North
Victoria Park Rd.
Fort Lauderdale
Florida 33304

Dade:
(305) 940-1361

Broward:
(954) 522-1361

FAX:
(954) 523-1361

Technical Services

Location Sound Mixing
Boom Operators
Video Assist Operators
Video Cameramen
24 Frame Video Playback
Teleprompter Operators
Avid Delivery & Setup
Avid Editors
Macintosh Consulting

Audio Recorders / Players

Fostex PD-4 Portable DAT Recorder W/ TC
Nagra 4S TC Recorder
DAT Walkman Sony (TCD-D8)
Sony Cassette Recorder

Microphones

Sennheiser MKH-60
Sennheiser MKH-70
Sennheiser 816
Schoeps MK-41
Beyer Dynamic M58 Stick Microphone
Sanken Lavalier Microphone
Stick Mic, Shure
Neuman KMR-81i

Wireless Audio

Audio Limited Wireless UHF (MX2000)
Sonotram Lavalier Microphones
Comtek Line Level Transmitters
Comtek Receiver (IFB)

Audio Speakers

Ashley Stereo Amp 200 Watts RMS
JBL 15 " 2-way Speakers
Anchor Liberty Speakers
Mackie HR824 Reference Monitors
Fostex 6301B Personal Audio Monitor
Bose Roommate Speakers W/ Bose Bag
Ultimate Utililock Black Speaker Stand

Audio Mixers

PSC M-4, 4 Channel Mixer
Mackie Designs 1202 Mixer

Audio Accessories

Denecke Time Code Slate
Denecke Time Code Generator
K-Tech ENG (short) Boompole
Robo Pole ENG (short) Boompole
Robo Pole ENG (long) Boompole
VDB Boompole (1404)
Bullhorn, 10 Watt Fannon

Frame Synchronizers

DPS-465 Serial Digital Video A/D, D/A Synchronizer

Video Monitors

Sony PVM-20N2U 20 Inch Multi Scan Monitor
Sony PVM-20M4U 20 Inch Broadcast Monitor
Panasonic CT-2010Y 20 Inch Monitor
20 Inch NEC 2000S Monitor
Sony PVM-8020 AC/DC Monitor
Sony PVM-8041 AC/DC Monitor
Sony 8mm Combo EVM-8010-R
Sony 13 Inch Monitor (AC)
Sony GV-S50 8mm Recorder / Receiver (Clam Shell)

Non-Linear Video Editing

Aria Media Composers
Aria Hard Drives
Aria Media Towers
Jazz Drives
Zip Drives

Video Cameras

Sony BVW D600 Betacam Camera
Canon XL-1 DV Camera
Sony TR-7 8mm Camera

Video Tape Recorders

Sony DVW-A500 Digital Studio Recorder / Editor W/ TBC
Sony BVW-70 Beta SP Studio Recorder / Editor W/ TBC
Sony VP7020 3/4 Inch VTR Player w/ Remote
Sony CVD-500 8mm Player / Recorder
Panasonic NV 8950 Variable Speed Machine
VHS Machines

Video Printers

Mitsubishi Color Video Printer CP700U (RGB)
Sony Color Video Printer UP-1200A
Sony B & W Video Printer UP-880
Mitsubishi B & W Video Printer

Video Accessories

Panasonic WJMX-50 Switcher
Kramer Video Distributor 50VN
Leader LCG412B NTSC Pattern Generator
Block Battery (12 Volt) 32 Amp Hour Gel-Cell
Block Battery (12 Volt) 18 Amp Hour Gel-Cell

Teleprompter

O-TV Teleprompters

Walkie Talkies

Motorola GP-300 UHF Walkie Talkies
NEXTEL 2-Way
Apelco VHF 510 Marine Radio
Motorola Speaker Mics
Headsets with Boom Mic
FBI Headsets

Office Equipment

Xerox Copier W/ 20 Page Document Feeder
Xerox Plain Paper Fax
Cellular Fax Machines

Photography

Nikon F-5 Camera
Nikon N-6000 Camera
Nikon 24mm To 50mm Lens 1:3.3-4.5
Sigma 18mm To 35mm AF Lens 3.5
Nikon 28mm To 70mm Zoom Lens 1:3.5-4.5D
Nikon 7mm To 210mm Zoom Lens 1:4-5.6

Cellular Phones

Analog and Digital Phones
Local Bahamian and Caribbean Numbers
Worldwide Service (Satellite and Cellular)

Everything Else

Yamaha 1000 Watt Generator
Magliner Gemini Jr. Equipment Cart
Director's Finder