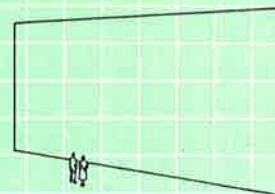


MagnaVision



PRODUCT DESCRIPTION: MAGNA VISION, AS ITS NAME IMPLIES IT, IS A LARGE-SCREEN FILM PRESENTATION SYSTEM CAPABLE OF DELIVERING EXTREMELY HIGH QUALITY IMAGE REPRODUCTION AT MAGNIFICATIONS FAR EXCEEDING THE LIMITS ESTABLISHED BY THE 35MM FILM FORMAT.

APPLICATIONS: FILM PRESENTATIONS TO LARGE AUDIENCES IN LOCATIONS SUCH AS SPORTS ARENAS, STADIUMS, SCIENCE MUSEUMS AND OTHER RELATED INSTITUTIONS.

A. DESIGN FACTS:

1. FILM FORMAT

- ◇ 8-PERFORATION PULL DOWN
- ◇ 65MM FILM, KS-1866
- ◇ ASPECT RATIO: 1.33
- ◇ 478% LARGER THAN 35 MM FORMAT
(SEE ATTACHED)

2. CAMERA

- ◇ MODIFIED "MITCHELL"
- ◇ 8-PERFORATION PULL DOWN
- ◇ APERTURE: 1.467" X 1.953"
- ◇ SHUTTER: VARIABLE
- ◇ REGISTRATION: 2-PIN TRAVEL
2-PIN PULL
- ◇ LENS MOUNT: PANAVISION STD.

-1-



3. PROJECTOR

- ◇ 8-PERFORATION PULL-DOWN
- ◇ APERTURE: IMAX COMPATIBLE. PROPORTIONALLY REDUCED .690 FOR FULL-FRAME PROJECTION INTEGRITY
- ◇ FIXED FRAMING FOR INCREASED PICTURE STABILITY.
- ◇ FILM HANDLING: FILM PLATTER OR REEL-TO REEL AS REQUIRED.
- ◇ SIX-CHANNEL MAGNETIC SOUND REPRODUCTION.

4. LAMPHOUSE

- ◇ LIGHT SOURCE: 7.0 KW or 12.0 KW XENON BULB
- ◇ DICHROIC FOLDING MIRROR
- ◇ ALUMINIZED METAL REFLECTOR

5. PROJECTION LENSES

- ◇ FOCAL LENGTH: AVAILABLE FROM 57.5MM TO 67.5MM TO SATISFY MOST SCREEN SIZES AND BUILDINGS.

6. SOUND

- ◇ SINGLE SYSTEM
- ◇ SIX-CHANNEL MAGNETIC. ANSI PH22.185
- ◇ CHANNEL CONFIGURATION: CH-1: LEFT SURROUND
CH-2: LEFT FRONT
CH-3: CENTER
CH-4: RIGHT FRONT
CH-5: RIGHT SURROUND
CH-6: OVERHEAD REAR

6. SOUND (CONT.)

- ◇ SIX CHANNEL TECCON HEAD (SENDUST)
- ◇ SIX CHANNEL LOW-NOISE PREAMPLIFIER. OMNI FILMS DESIGNED.
- ◇ NOISE REDUCTION: DOLBY OR DBX (DBX PREFERRED)
- ◇ AUDIO POWER: 200-400 WATTS PER CHANNEL AS REQUIRED.
- ◇ BASS-BOOST: OPTIONAL, THROUGH DBX SUBHARMONIC SYNTHESIZER AND SUBWOOFERS AS REQUIRED.
- ◇ SPEAKERS: 15-INCH, 3-WAY FOR ALL CHANNELS.

B. FILM AVAILABILITY:

1. FILM LIBRARY

- ◇ "THE MAGIC EGG"; "FACES OF JAPAN"
ADDITIONAL FILMS WILL BE ADDED TO THE LIBRARY AS THEY BECOME AVAILABLE.

2. CUSTOM FILMS

- ◇ CUSTOM FILMS ARE PRODUCED BY OMNI FILMS STAFF FOR CUSTOMERS WHO WISH TO CREATE THEIR OWN PRESENTATIONS.
- ◇ THE OMNI FILMS 8-PERFORATION CAMERA AND THE AVAILABILITY OF CAMERA LENSES COMBINE TO PROVIDE THE FLEXIBILITY REQUIRED MOST THE MOST COMPLEX SCRIPTS.

FILM FORMAT COMPARISON

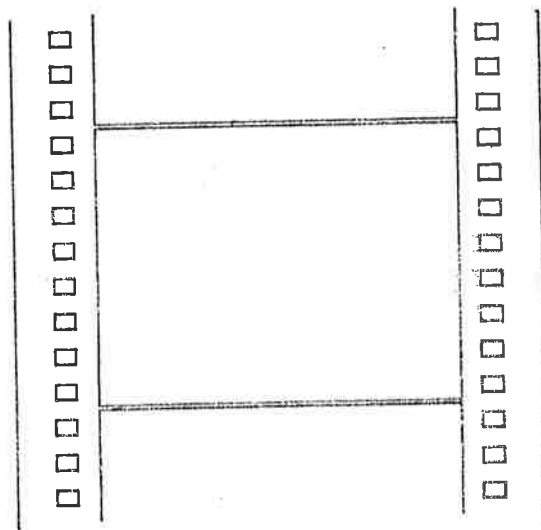


IMAGE AREA= 2.865 sq.in.

70mm/8-Perforation Format

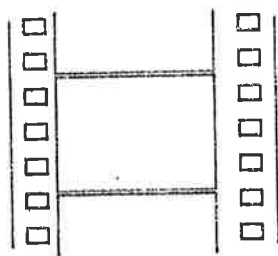
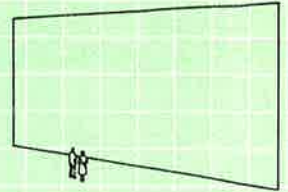


IMAGE AREA= 0.495 sq.in.

35mm Format

(actual size)

MagnaVision



DESCRIPTION

Magnavision is a 70mm, 8 perforation film system that projects onto a very large, wall to wall, floor to ceiling, flat or slightly curved screen up to 80 feet wide by six stories high. Crisp, bright images are full of vibrant, contrasting colors.

The wide field of view, horizontally and vertically, combined with a powerful six channel surround sound system creates a staggering visual and aural experience. Eye and head movement are required to take in the entire picture. A heightened sense of involvement gives audiences the impression of "being there" as objects and horizons fly by.

APPLICATIONS

Magnavision 70mm film presentations will educate and entertain a broad market including adult, family, child, teen, student, resident and tourist. Magnavision has the power to draw year-round at a variety of locations including science parks; museums; planetariums; World's Fairs; expositions; industrial, commercial or institutional trade shows; theme parks; marine parks; sports arenas; stadiums; stage or movie theaters; zoos and other high traffic attractions.



870 MAGNAVISION FILM FORMAT

70mm, 8 perforation pulldown

Aspect ratio: 1.31 to 1

478% larger than 35mm format

FILM FORMAT COMPARISON

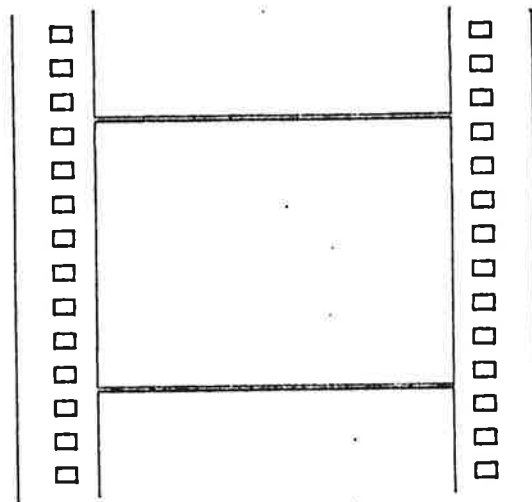


IMAGE AREA= 2.865 sq.in.

70mm/8-Perforation Format

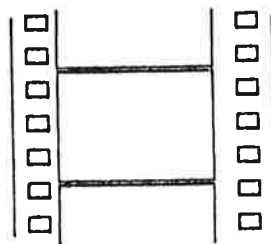


IMAGE AREA= 0.495 sq.in.

35mm Format

(actual size)

PROJECTOR

8 Perforation pull-down
70mm, 24 frames/second
Fixed framing for increased picture stability
Film handling: Film platter, reel-to-reel or continuous loop
as required

LAMPHOUSE

Light source : 7 KW or 12 KW Xenon Projection Lamp
Dichroic folding mirrors
Aluminized metal reflector

PROJECTION LENS

Focal length: 54.2mm

SOUND

Six Channel Surround, Single or Double Analog Systems
available

Channel configuration: CH-1: Left surround
CH-2: Left front
CH-3: Center
CH-4: Right front
CH-5: Right surround
CH-6: Overhead rear

Six channel Teccon Head (Sendust) for Single Analog System
Six channel ultra low-noise preamplifier (Omni Films design)
Noise reduction: Dolby or dBX (dBX preferred)
Audio Power: 400 Watts per channel
Bass-boost: dBX subharmonic synthesizer and sub-woofers
Speakers: 15-inch 3-way for all channels
Crossover Network: One per channel

SCREEN

Sizes: From 40'W x 30' H (12.19m x 9.14m) up to 80' W x 61'H
(24.38m x 18.59m)
Shape: Flat with horizontal curve
Material: Perforated fabric with frame and component hardware
Perforation Opening: 9-11%
Reflectivity: 90-95%

POWER REQUIREMENTS

	<u>7KW Lamphouse</u>	<u>12KW Lamphouse</u>
USA:	9KW; 220Volt; 3-Phase; 60Hz	15KW; 220Volt; 3-Phase; 60Hz
International:	9KW; 380Volt; 3-Phase; 50Hz	15KW; 380Volt; 3-Phase; 50 Hz

FILM PRINT-OVER/ 1570 to 870

The exclusive 70mm 15 perf/8 perf OMNI FILMS print-over process produces high quality, 8 perforation prints, while preserving full frame integrity.

FILM LIBRARY

An extensive film library of educational, scientific and travelog type films originally produced in 70mm 15 perforation are now available in 70mm 8 perforation either directly from Omni Films or from other large format film producers. New film productions will continue to expand the library

From Omni Films International, Inc.:

"The Magic Egg
"Faces of Japan"
"Tomorrow in Space"
"Sacred Site"
"Energy Energy"

In Production:

"Serengeti" Omni Films International, Inc.- Producer

From Other Large Format Film Producers:

"To FLY"
"Flyers"
"Chronos"
"Darwin on the Galapagos"
"The Great Barrier Reef"
"Seasons"
"Genesis"
"Grand Canyon"
"Niagara"
"Alamo"
"El Pueblo Del Sol"
"Rivers of North America"
"Omni-News II"
"Viva Baja"
"Cosmos"
"Garden Isle"
"Standing Up Country"

CUSTOM FILMS

Custom film production by OMNI FILMS is available to customers who wish to create their own presentations.

The OMNI FILMS 8 perforation cameras with a variety of lenses combine to provide the flexibility required for the most complex scripts. Camera equipment and operating technicians are available on a fee basis for production by independent producers.

MAGNAVISON THEATER DESIGN

11/9/88

MODEL

	<u>MV45</u>	<u>MV55</u>	<u>MV60</u>	<u>MV70</u>	<u>MV80</u>
Screen :					
W x H	45'x34'	55'x42'	60'x46'	70'x53'	80'x61'
Shape	-----Flat with Horizontal Radius-----				
Screen Height	0	-3'	-3'	-5'	-6'
Gain	.95	.95	.95	.95	.95
Material	Perforated Fabric w/Screen Frame & Mounting Hardware				
% Perforation	9-11%	9-11%	9-11%	9-11%	9-11%

Theater:					
L x W x H	88'x49'	91'x60'	100'x64'	106'x75'	112'x82'
	x35'	x42'	x46'	x53'	x61'
Floor Rake	9°	10°	10°	10°	10°

Seating:					
No. Seats	418	504	600	720	800
No. Rows - Staggered	19	18	20	20	20
Seats/Rows	22	28	30	36	40
Seat Width	22"	22"	22"	22"	22"
Row Length	40.33'	51.33'	55'	66'	73.33'
Dist. to 1st Row	27'	33'	36'	42'	48'

Aisles:					
No. Aisles	2	2	2	2	2
Width Each	4'	4'	4'	4'	4'
Location	Side	Side	Side	Side	Side

Projection:

Type	70mm, 8 Perforation Vertical Pulldown, 24 Frames/Second				
Aspect ratio	1.31/1	1.31/1	1.31/1	1.31/1	1.31/1
Throw Distance	78'	81'	90'	96'	102'
Lens Type	-----54mm F/2 Flat Field -----				
Lamphouse Wattage	7KW	7KW	7KW	12KW	12KW
Cooling Requirements	-----Forced Air-----			Forced Air & Chilled Water	
	(Approx. 57,000 BTU's)				
Projection Room					
L x W X H	-----10'x10'x9'-----			-----10'x20'x9'-----	

	<u>MV45</u>	<u>MV55</u>	<u>MODEL</u>	<u>MV60</u>	<u>MV70</u>	<u>MV80</u>
Sound:						
Type	-----Single System 6 Channel Analog-----					
Channels	6	6		6	6	6
Dual Amplifiers	4	4		4	4	4
Watts/Amplifier	800	800		800	800	800
Total Watts	3200	3200		3200	3200	3200
3-Way Speakers	8	8		8	8	8
Size	15"	15"		15"	18"	18"
Sub-Woofers	2	2		2	2	2

Optional: -----Double System 6 Channel Analog-----

*Electrical Requirements:

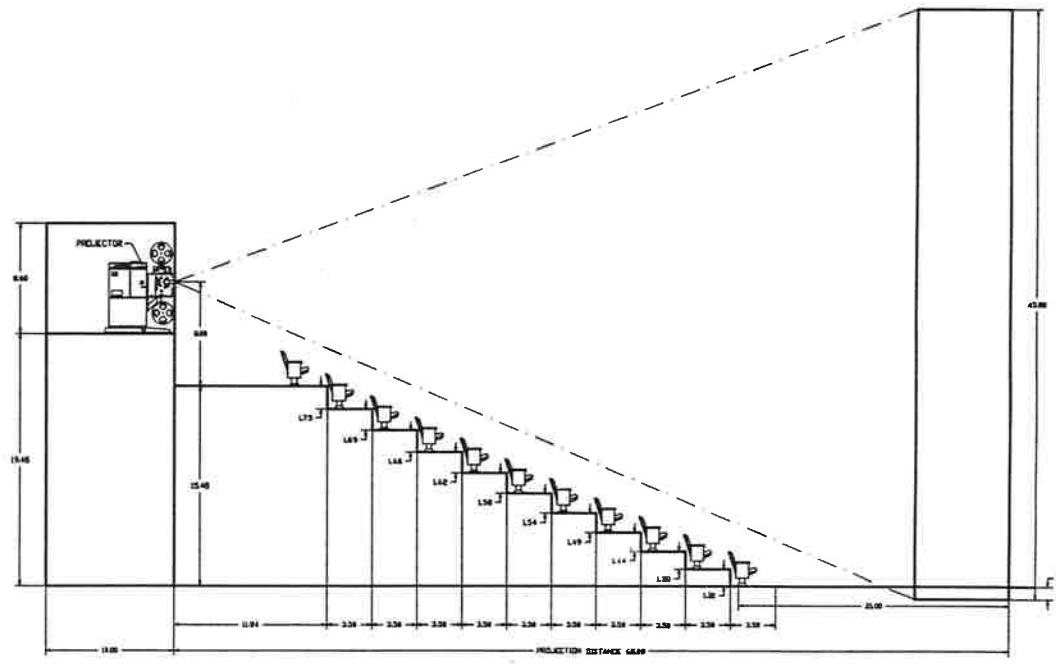
60 Cycle						
Kilowatts	9	9		9	15	15
Volts	220/110	220/110		220/110	220/110	220/110
Phase	3	3		3	3	3
50 Cycle						
Kilowatts	9	9		9	15	15
Volts	380/208	380/208		380/208	380/208	380/208
Phase	3	3		3	3	3

* Any other voltages can be accommodated on request, including but not limited to 440/220.

OMNI FILMS International, Inc.

PRODUCT INFORMATION AND ENGINEERING DATA

"MAGNAVISION"	60-FOOT SCREEN	7KW LAMPHOUSE	8-PERF PROJECTOR	CAPACITY: 309	20" SEATS	SHEET: MV-001
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SIDE ELEVATION

OMNI FILMS International, Inc.

PRODUCT INFORMATION AND ENGINEERING DATA

"MAGNAVISION" 60-FOOT SCREEN 7KW LAMPHOUSE 8-PERF PROJECTOR CAPACITY: 309 20" SEATS

SHEET: MV-002

