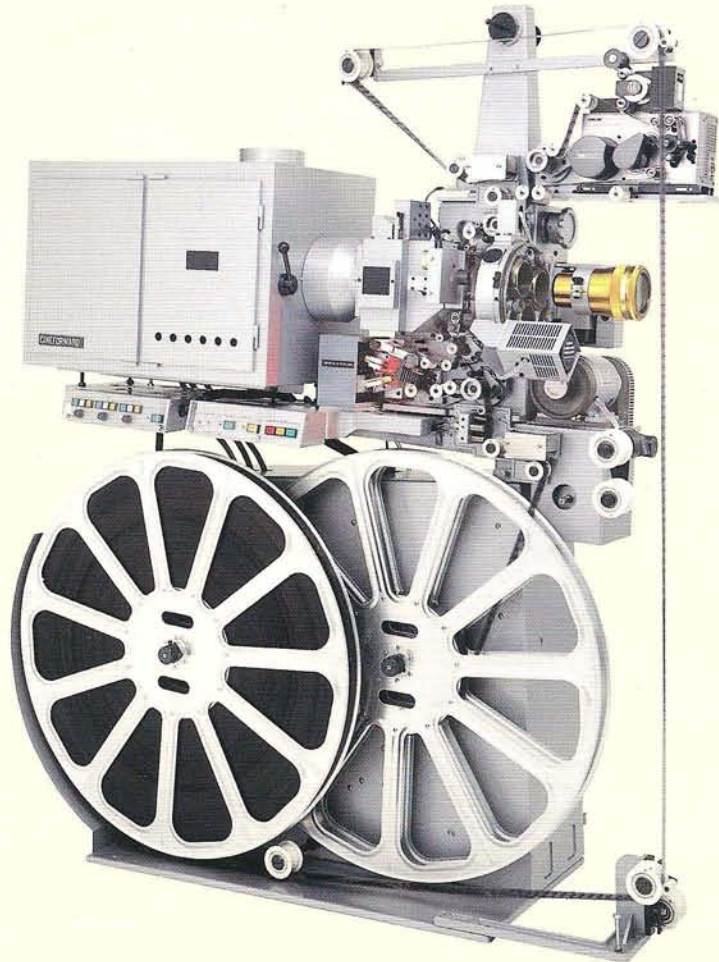


CF CINEFORWARD®

SOUND PROJECTOR & CONTROL SYSTEM



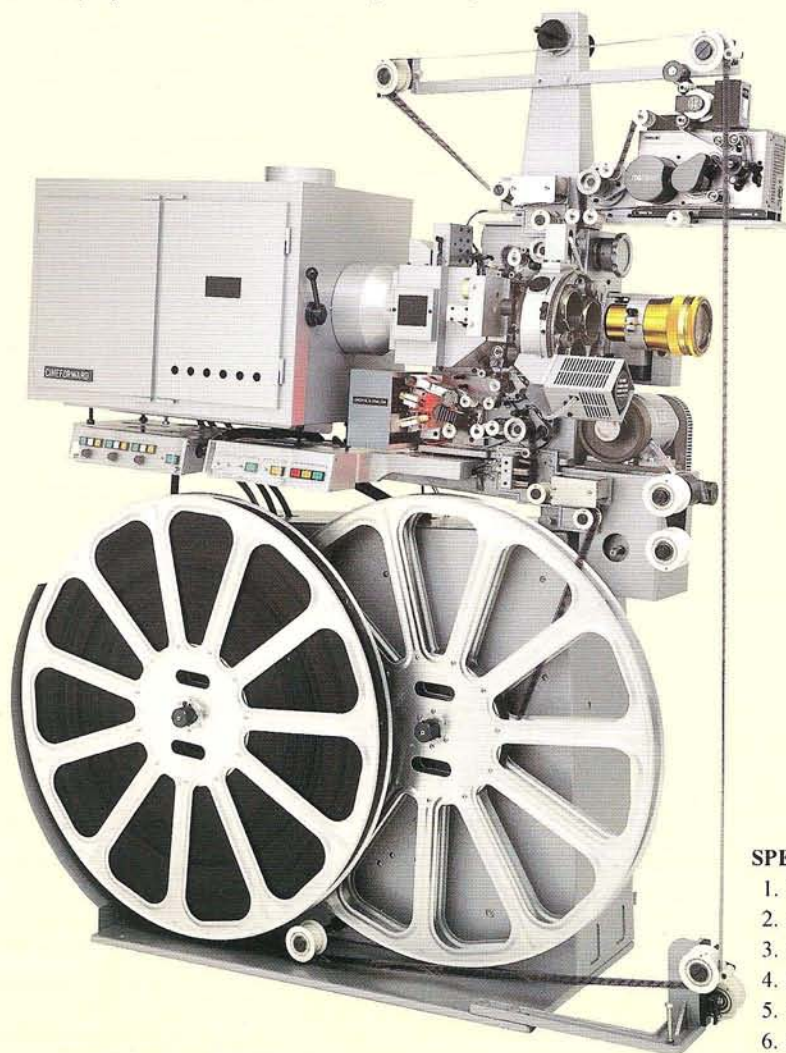
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NIPPON DENSHI KOGAKU CO., LTD.
JAPAN ELECTRONIC OPTICAL CO., LTD.

FX-3000CA IV FULL AUTOMATIC PROJECTOR

CINEFORWARD FULL AUTOMATIC PROJECTION SYSTEM

NIPPON DENSHI KOGAKU CO., LTD. is a leading manufacturer of Cinema Projector in Japan who has had a long history and much experience in the motion picture industry. The main item CINEFORWARD FX-3000CA IV Full Automatic Projectors have been installed in the most of the theatres in Japanese market with a great deal of success. Design concept that has been prudently pursued for ease of operation from the standpoint of the users. Engineering staffs who have had much experience of realize it. Technical ability that has originated from Precision Technology and Electronics. Well organized production system that has been carried out in consistence at the own factory. With the result that each factor has achived in high level, the projectors have become a standard of quality as the best seller model. Flexibility that the projectors perform full automatic projection and also carry out manual operation in a second, if necessary. Moreover, it is easy to operate and to be stable in projection. It is also very good for the cost-performance and tough for troubles. Consequently, CINEFORWARD projectors have succeeded in getting very good results. CINEFORWARD FX-3000CA IV Full Automatic Projectors accommodate the complete power saving to the theatres of the cinema complex style, which is getting the main stream in the various kinds of the theatres nowadays. It is the real automatic projectors that are certainly used by all of the customers.



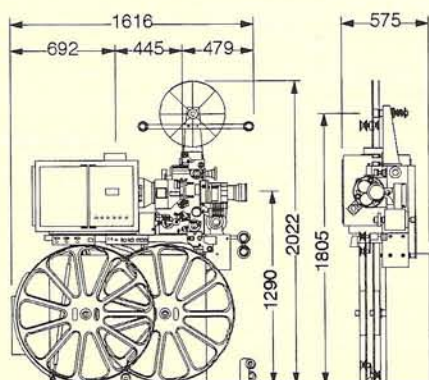
FEATURES

- Commercial & Short film are projected in an individual arm.
- Framing & Lens Turret are used in both automatic and manual operation with no change.
- Reels are usable in both forwarding & re-winding.
- Re-winding is available without removing reel. It provides with intermittent shoe pad friendly to film in forward & reverse operation.
- Ball-bearings are built in all film guide rollers.
- Movable portions i.e. aperture, lens turret, etc. can open widely for ease of operation & simplicity of cleaning.
- Control motor accomodates a torque motor which works stabilized without any troubles.
- Lamphouse is designed for operator's safety to open/close separately from operation & lamp side.

3000ft Reel Re-winding System: Option
(Including Pedestal & Rear Re-winding Arm)

SPECIFICATIONS

1. Type: FX-3000CA IV Full Automatic Lubrication System
2. Film Trap: Parallel movable open/close system
3. Film Skate: Separate anti-flapping for screen
4. Shutter: Conical shutter for wide angle of incidence
5. Lens Holder: 3-Turret automatic selective rotating system
6. Light Source Auto Changer: High speed 1/2 shutter system
7. Safety Appliance: Sensor for vertical tear & cut of film
8. Forward/Reverse Film: Intermittent shoe
9. Film Speed: Forward/Reverse 24-30 frames/sec.
10. Framing: Intermittent rotating system
11. Cooling Method: Aperture Blower/Water Cooling (Op)
12. Laser Exciter: LED Exciter system/Digital reader (Op)
13. Projector Motor: Forward-Projection/Reverse-Induction, 3-Phase 200W
14. Re-winding Motor: Forwarding/Re-winding, 120W Torque Motor
15. Anamorphic Lens Holder: Individual, Automatic selective rotating system
16. Optical Sound Stabilized System: Soft loop system, "Wow" and flutter within 0.2%rms
17. Aperture Mask: Lateral insert, Auto selective change-over for projection size
18. Film Capacity: 12,000ft-6,000ft-3,000ft, Random speed available, Reel spindle 12.7 ϕ
19. Screen Tolerance: Within 2mm Vertical, 1.5mm Horizontal for Screen width 1000mm
20. Film Re-winding Mechanism: Individual Re-winding/Editing, High speed Re-winding (Automatic Control)



CINE FORWARD AUTOMATIC SYSTEM

AUTOMATIC PROGRAMING SYSTEM

REMOTE CONTROL&MONITOR DEVICE

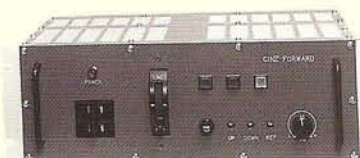
1. Indication of current time on a large liquid crystal panel, Indication in Calendar & Setting-up of Days of a week
2. Indicating at all times the projection rounds for a day. Easy to find out, at a look, the finished round in the change of the key color on the touch panel board.
3. Indicating the time left to start the next projection.
4. Setting the projection times for a week with a ten-key board on the panel and also extra two days for multi purposes to be addeed. Possible to set up the in-put per day & 14 projection rounds at maximum for each day.
5. Setting up the projection hours with the time-switch built in (Automatically change at a touch of the key)
6. Easy to install many patterns of the programs on the touch panel board, i. e. No. 1-Start, No. 2-Off.
7. Programming of BGM-on/off, Chime, Announcement of Projection & Intermission, Hours of Chime & Broadcasting are memorized in self-educated format system upon measuring automatically.
8. Operating BGM, Broadcastings, Screen Curtain -open/close, Brightness/Darkness of adjusted lights, Projector, etc.

1. Monitor TV & Camera
One monitor TV has a capacity of connecting with 4 pcs Cameras at maximum. It is possible to watch the projector No. 1, No. 2, Screen on operation, Lobby, Shop, etc., according to the purposes.
2. Change-over device (Option)
Option includes to increase the monitoring screens by 4 in one monitor TV and also enables it to exclusively watch over.
3. Indication Board in Operation
Sound Mode (Dolby/Mono), Indication of Volume, Switch of Change-over device, Monitor selector, Monitor Volume, Indicator on the conditions of the operating projector, Indicator of the remote framing change-over, Trouble Indicator & Buzzer (Option - Trouble Indicator for Xenon Lamp & Exciter Lamp)
4. Electric Chime
5. Mixer
6. Amplifier for intermission music
7. Tape Deck for BGM
8. CD player for BGM

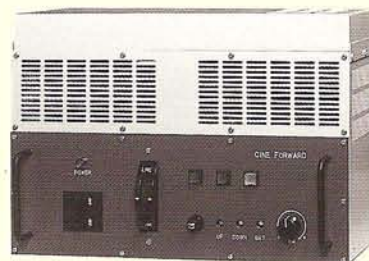
Easy Operation on liquid crystal touch panel



Automatic Dimmer
Device/Rack
Installation Type



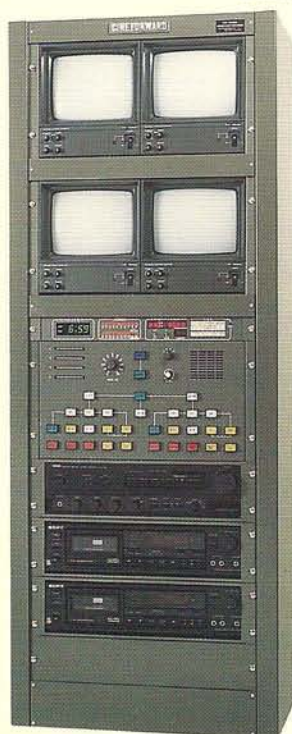
Individual Installation
Type



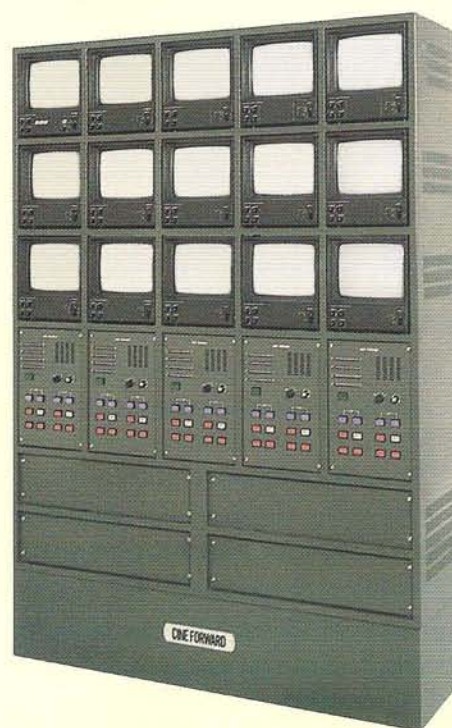
Remote Control/ Watching System



Liquid Crystal Programming Unit



Single (1) Screen Unit



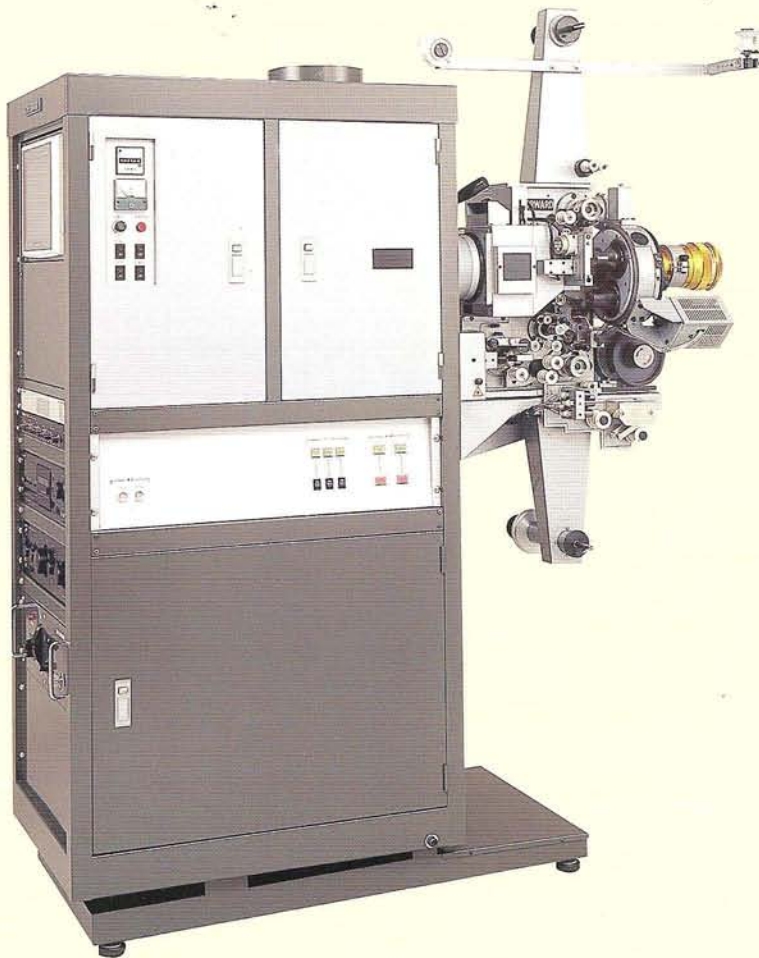
Five (5) Screen Unit

CINE FORWARD CONSOLE PROJECTOR

FX-1000 CONSOLE PROJECTION SYSTEM

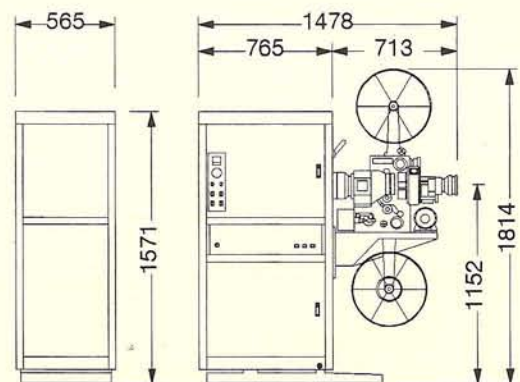
Cinema Complex which is getting exactly the main stream in the style of the new theatres established recently. CINEFORWARD FX-1000 Console Projector is just the type which is well tailored to such a new demand. Combined with the platter, it is possible to form the very rational configuration. FCT-10 projector with high reliability is used in the headmachine and the latest version of liquid crystal touch panel type programmes is also installed in the console structure. It makes itself one package in the conventional systems. FCT-10 is originally designed for the low noise type and is additionally improved to make the noise reduce much less for the conversion to the console type. Totally adding into the saving of space & the low cost, it is sure to greatly contribute to the management of Cinema Complex.

Low Initial Investment, Low Noise, Low Cost & High Safety
A Great Help for Theatre Management
Best for Cinema Complex!



FEATURES

- 3000ft Reel available
- Accomodate Intermittent shoe pad friendly to film
- Movable portion i.e. Aperture, etc., can open widely for easy operation & cleaning
- Liquid Crystal touch panel programming system (option)
A day-show hour is always indicated on the panel. Shows' starting hours are easily set up on the panel. Show hours for a week and more 2 days programmable. All the programming operations can be made on the panel.
- Digital Calendar indication easily programmable
- Both automatic/manual operation of the projectors controllable on the large switch panel.
- Built-in Rectifier-with high efficiency & compact switching regulator - Save space!
- Ventilation Noise is much reduced because of the cooling system for xenon lamp set up at lower part
- Amplifier for intermission music, Cassette Deck for BGM, Mixer & Electric Chime are equipped with.
- Automatic Dimmer System mounted.



SPECIFICATIONS

1. Type: FX-1000 Automatic Lubrication System
2. Film Trap: Parallel movable open/close system.
3. Film Skate: Separate anti-flapping for screen.
4. Film Speed: 24 frames/sec.
5. Shutter: Conical shutter for wide angle of incidence.
6. Auto Changer for Light Source: High speed 1/2 shutter system.
7. Film Holder: Intermittent shoe
8. Anamorphic Lens Holder: Single & Automatic selective rotating system.
9. Lens Holder: 3-Turret automatic selective rotating system.
10. Framing: Intermittent rotating system.
11. Screen Tolerance: Within 2mm Vertical, 1.5mm Horizontal for screen width 1000mm.
12. Projector Motor: Induction (Synchronous) 3 Phase 200W.
13. Film Re-winding Mechanism: Belt-Drive system
14. Optical Sound Stabilized System: Soft loop system, Wow and Flutter within 0.2rms.
15. Laser Exciter: LED exciter system/Digital reader (Option)
16. Aperture Mask: Lateral insert type, Automatic selective change-over for projection size.
17. Safety Appliance: Sensor for vertical tear & cut of film
18. Cooling Method: Aperture Blower/Water Cooling (Option)

CINE FORWARD PLATTER SYSTEM

PD-3000, PD-5000 PLATTTER SYTEM

A combination of 3-Disc Platter and a Projector recommendable in the projection system for Cinema Complex due to low cost for initial installation. It is assured that the single projector system is developed for the purpose of man-power saving and basically designed for the tough protection from any troubles. It may work easily with the power switch on without any extra operation to change the disc. It is realized that the system is sturdy for out-of-order and simple in operation, as the necessary ability for work is equipped with, eliminating excessive functions.



SPECIFICATIONS

1. Type: PD-3000
2. Film Capacity: Approx. 5 hours (approx. 27,000ft)
3. Voltage: AC100V (120V, 200V, 220V)
4. Drive Motor: DC120W
- * PD-5000 type with 5-disc is available.

FEATURES

- Big capacity of 5 hour-film projection available without intermission and adaptable for use with any other projectors.
- No need to rewind. Show can start again provided the film is put on the projector.
- Turn table to be improved to prevent the film from the tangle & friction.
- Accommodate Silent and High Torque Driving Motor under the precise concept in use for selected materials extended to Driving Transmission.
- Availability to make 'Make-Up' & 'Break-Down' on the remaining disc even during the two discs are operated (in projection).
- Smooth and High Response with the power supply of high frequency, DC pulse controlled units.

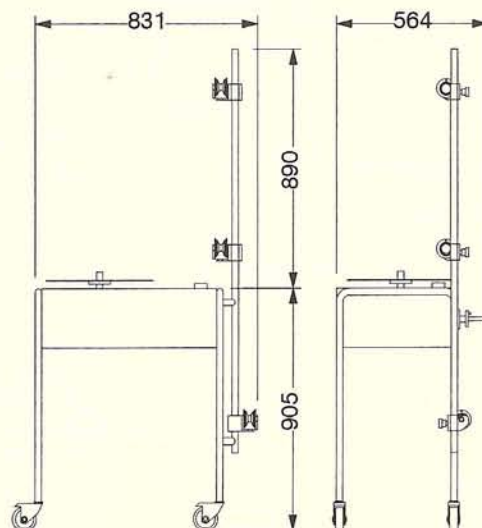
MAKEUP TABLE

CINEFORWARD MAKEUP TABLE

Make-up Table to be in use together with the platter. Sturdy for simple structure and Ease for maintenance achieved as well. Re-winding motor made for high speed rotating type performs the conceptional torque distribution. It results that the efficiency in working is greatly improved and the consideration in safety is also made much more enough. It is more efficient to have an extra arbor for the editing, adding to the high speed rotation..

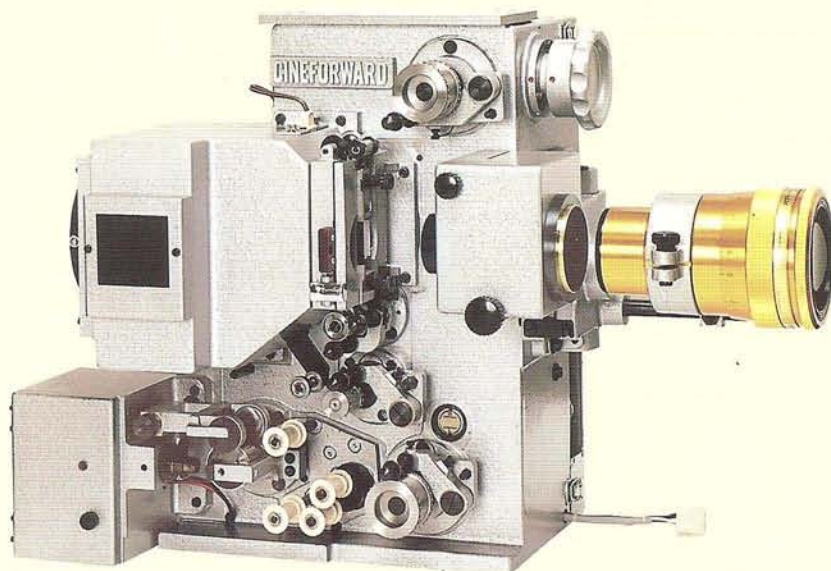
SPECIFICATIONS

Power Supply	AC100V (120V)
Drive Motor	DC120W
Carrier	Movable in castors
Method	Re-winding on horizontal surface board with forwarding unit



CINE FORWARD FPD SERIES PROFESSIONAL

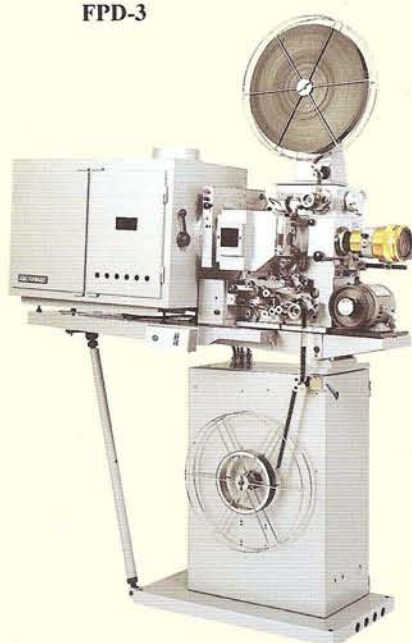
FC-10 SINGLE LENS PROJECTOR SERIES



Index for the combination with FC-10 Projector

1. Upper Arm: A-3-U, A-6-U & A-3-12U
2. Single Lens Holder Projector: FC-10
3. Pedestal: FP-3, FP-6 & FP-12
4. Auto Changer: OTC-1000
5. Separate Reel: R-3W
6. Reel: R-3, R-6 & R-12
7. Film Re-Winder: FW-3, FW-6 & FW-12
8. Xenon Lamphouse: CX-2000, CX-3000, CX-3600 & CX-5000
9. Switching Regulator: FCX-80SR, FCX-100SR, FCS-140SR & FCX-160SR
10. Xenon Lamp: 2KW, 3KW, 3.6KW & 5KW
11. Anamorphic Lens
12. Projection Lens
13. Tape Splicer
14. Automatic Conductor

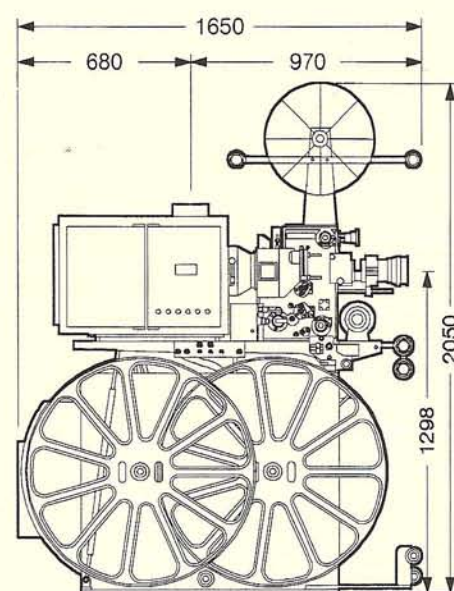
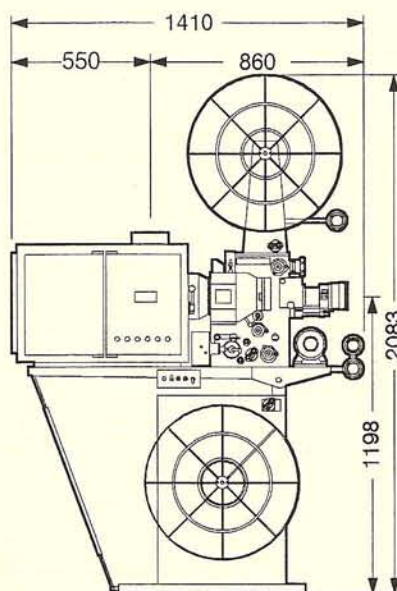
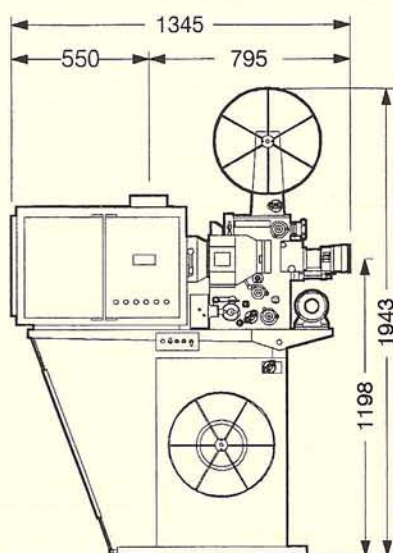
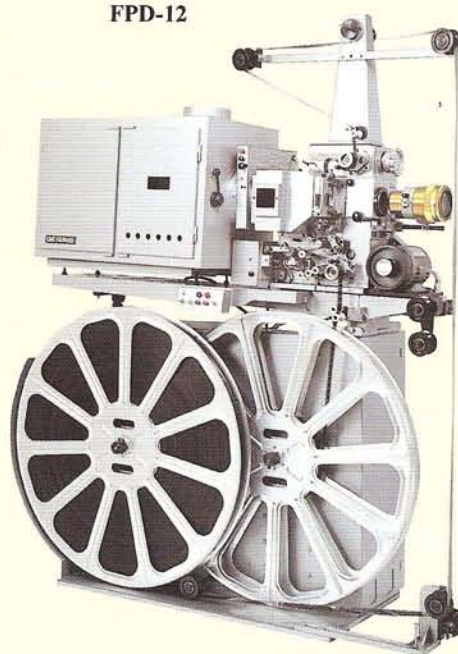
FPD-3



FPD-6A/6B
6B: Re-winding at upper part



FPD-12



CINE FORWARD FSD SERIES PROFESSIONAL

FCT-10 THREE TURRET PROJECTOR SERIES



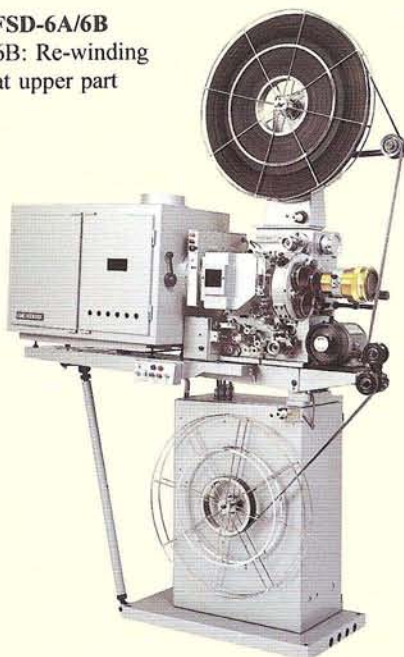
Index for the combination with FCT-10 Projector

1. Upper Arm: A-3-U, A-6-U & A-3-12U
2. 3-Lens Turret Projector: FCT-10
3. Pedestal: FP-3, FP-6 & FP-12
4. Auto Changer: OTC-1000
5. Separate Reel: R-3W
6. Reel: R-3, R-6 & R-12
7. Film Re-Winder: FW-3, FW-6 & FW-12
8. Xenon Lamphouse: CX-2000, CX-3000, CX-3600 & CX-5000
9. Switching Regulator: FCX-80SR, FCX-100SR, FCS-140SR & FCX-160SR
10. Xenon Lamp: 2KW, 3KW, 3.6KW & 5KW
11. Anamorphic Lens
12. Projection Lens
13. Tape Splicer
14. Automatic Conductor

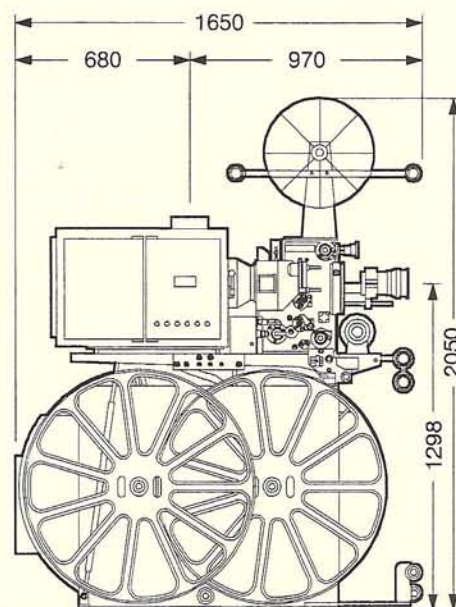
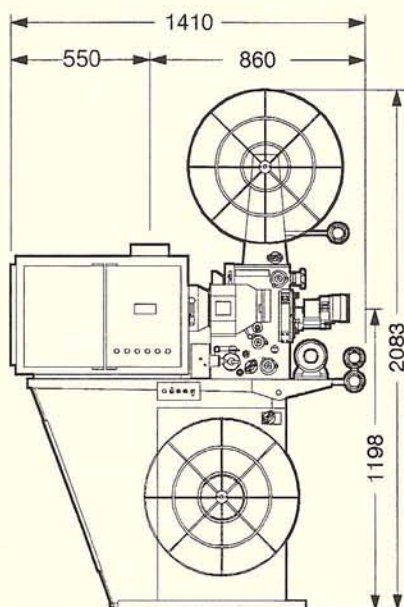
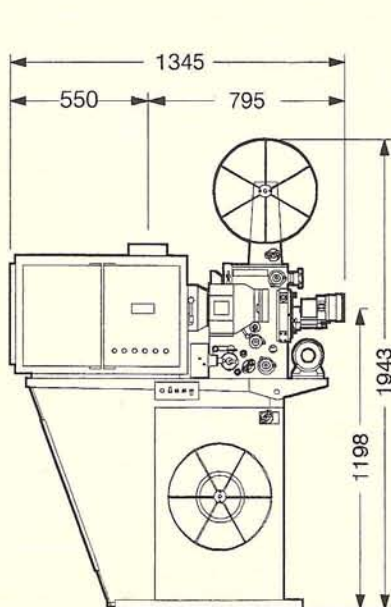
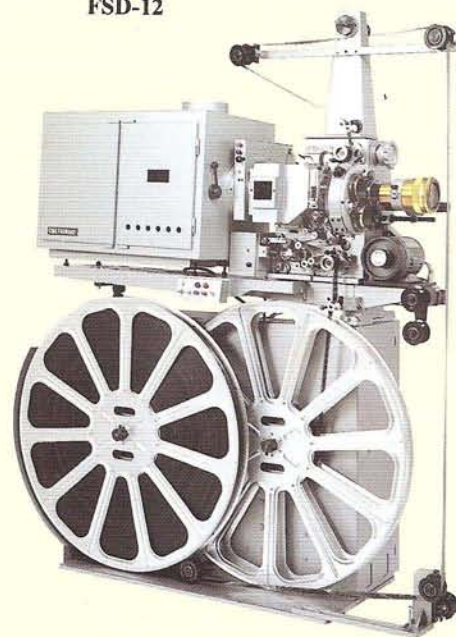
FSD-3



FSD-6A/6B
6B: Re-winding at upper part

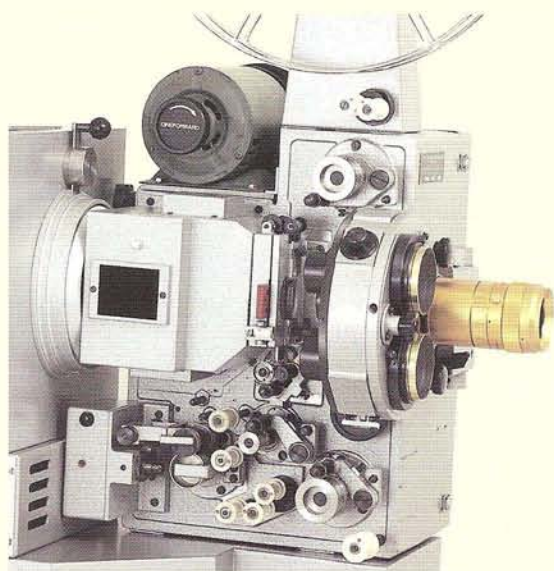


FSD-12



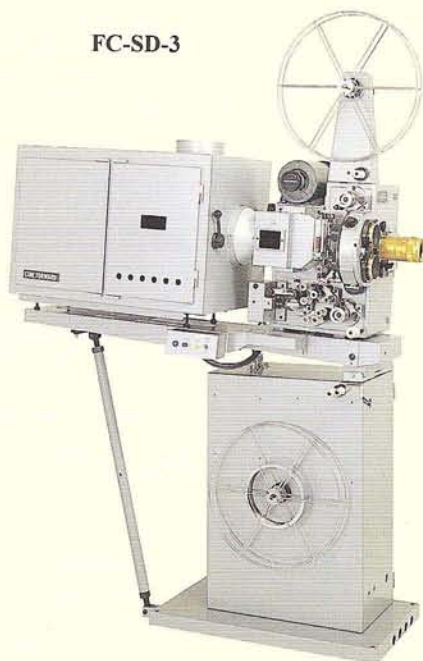
CINE FORWARD FC-5000 SERIES PROFESSIONAL

FC-20 THREE TURRET PROJECTOR SERIES

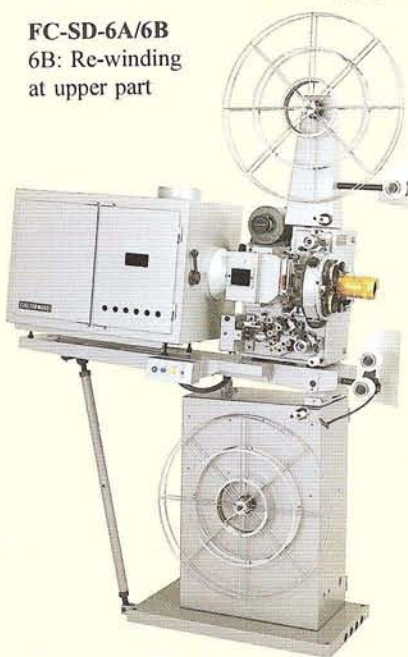


Type:	Oil Bath, Mechanical one-body type
Aperture Mask:	Lateral insertion type
Film Trap:	Door type (Open/Close)
Film Skate:	Single skate type
Shutter:	Conical shutter
Film Re-winding System:	Torque motor & Gear drive system
Lens Holder:	Minimal adjustment system in screwed mechanism
Framing:	Individual rotation system
Screen Tolerance:	2mm-V, 1.5mm-H for screen width 1000mm
Starting Time:	Within 3 sec.
Momentum Rotating Time:	Over 3 sec after projector power is off.
Projector Motor:	Forward Rotation, Induction 200W (100V/200V)
Re-Winding:	Belt friction
Film Capacity:	3,000ft
Reel Axis:	12.7mm
Film Re-winding Mechanism:	Individual Re-winding
Analog:	Laser exciter system
Sound In-put:	Stereo solar cell
Film Speed:	Forwarding 24 frames/sec. Reverse 24-30 frames/sec
Safety Appliance:	Sensor for vertical tear and cut of film (Option)
Cooling Method:	Fan motor
Corresponding Type:	DTS, SRD & SDDS
Power Supply for Projection Light Source:	Switching Regulator

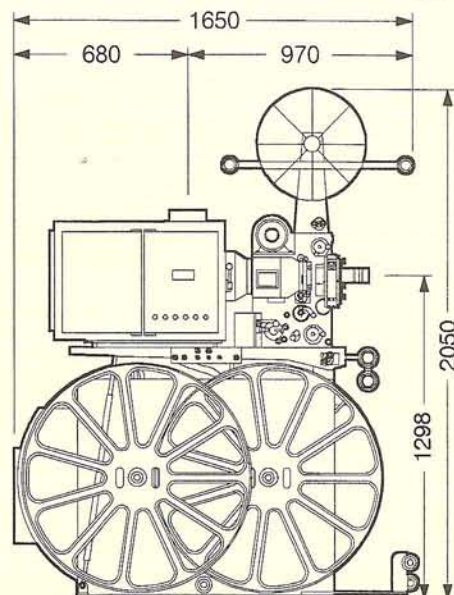
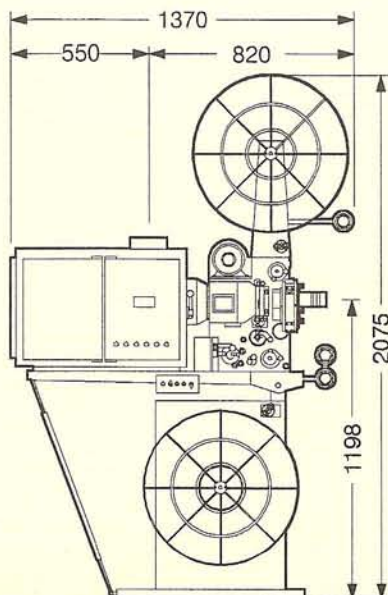
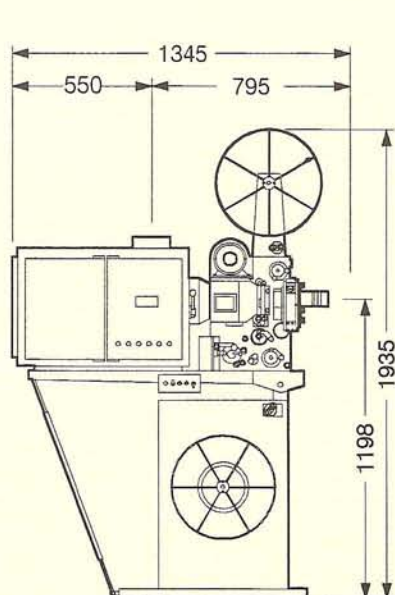
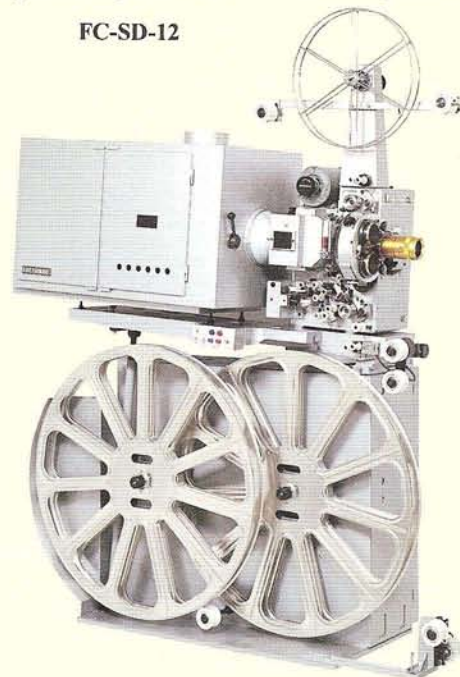
FC-SD-3



FC-SD-6A/6B
6B: Re-winding at upper part



FC-SD-12



CINE FORWARD FD-CINEMA PROCESSOR

DIGITAL SOUND SYSTEM

The best amplifier makes the best sound quality.



Since 1974, BGW as a manufacturer for a professional amplifier have provided traditionally with the maximized reliability and sound quality like the very professionals' amplifiers in the days of Sensurround of Universal and Disco-theque Booms. BGW's products have been recognized by the experts of Sound Technology throughout the world and have been actually used from coast to coast. BGW's amplifiers are played days and nights in the many studios such as Abbey Road, Warner Brothers, etc.

Moreover, there are also important places where BGW are installed with a great success, i. e. Universal Studio, Disney World, The Lincoln Center, Los Angeles International Airport, The Academy of Motion Picture Arts and Science, Mirage and Excalibur Hotels, The White House Rose Garden and so on.

To realize the wonderful sound quality, PROFESSIONALS DP series use the out-put circuit of Class AB in the wide range of 175kHz in rather low bias and feedback. It describes magnificently accurate sound which all the peoples may be satisfied with. PD-1000, PD-2000, PD-3000 & PD-4000 make use of the normal power supply even in such compact sizes.

Index for the combination of various sound equipments

1. Monitor Panel
2. Automatic Volume Control Device
3. Dolby Analog Processor: CP-65
4. Dolby Digital Processor: CP-500D
5. SR-D Digital Processor: DA-20
6. DTS Digital Processor: DTS-6D
7. SONY Digital Processor: SDDS
8. BGW Amplifier: DP-1000, DP-2000, DP-3000 & DP-4000
9. Channel Divider: XEQ-2 & XEQ-3
10. Main Speaker: TS-940D & TS-9040D/LX
11. Super Woofer Speaker: TL550D
12. BGW Super Woofer Speaker: M1100 & M2200
13. Surround Speaker: 8330
14. Surround Speaker: S-80A



NDK Monitor Panel

NDK Automatic Volume Control Panel

Dolby CP-500D Digital Cinema Sound Processor

DTS DTS-6D Digital Audio Processor

SONY DEP-D2000 SDDS Processor

Electro Voice EQ-215 Graphic Equalizer

BGW DP-3000 Power Amplifier



Surround Speaker



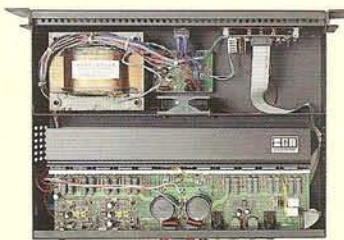
Screen Speaker



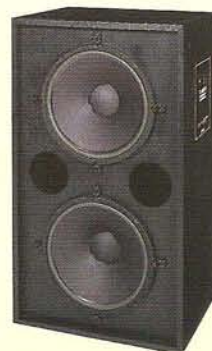
Monaural Amplifier



DP-1000, DP-2000, DP-3000 & DP-4000



BGW Amplifier inside



Super Woofer Speaker

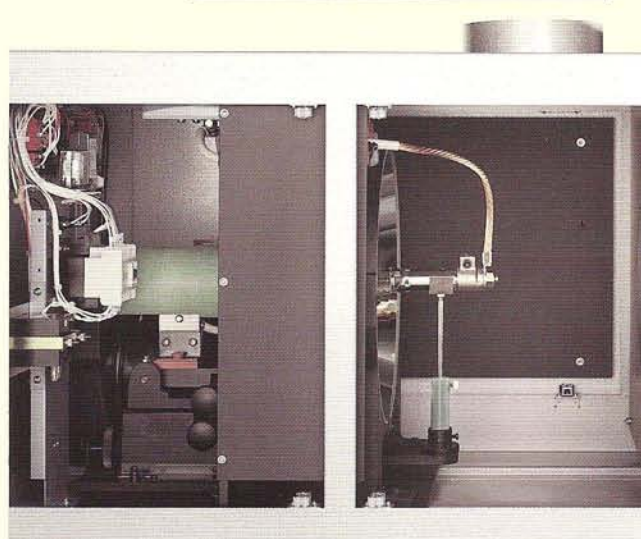
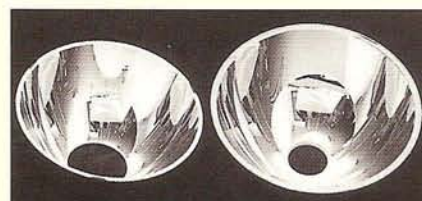
CINE FORWARD XENON LAMP HOUSE

CX SERIES XENON LIGHT SOURCE SYSTEM

CINEFORWARD CX series are designed for the saving of electricity and high performance in the mechanism, structure & reliability. A glass reflector featured by special specifications to raise the efficiency of collecting maximum light and to have no deterioration of its surface, is used in the essential optic system and a forced air-cooling is also equipped with to prevent the temperature from going up even for a long operation. It provides the stability of xenon lamp with the permanent magnet, which is not affected with the fluctuation of electric current. The magnet is adjustable to set up the best position according to the condition of operation and it makes the lamp easily stable. The starter originally developed by ourselves is built in and quickly responses to the actions of projector.

For safety and easy operation, it has two doors on both operation and lamp/reflector side. To change the lamp, it is very easy to replace the used lamp with a new lamp at hand-twist.

Safety much more to handle xenon lamps
Separate two doors on both operation and lamp/reflector side.
Start at a stroke to make a lamp life longer.



House Type	CX-1000	CX-1600	CX-2000	CX-3000	CX-3600	CX-5000	CX-6500	CX-8000
Xenon Type	FXL-1000/H-OL	FXL-1600/H-OL	FXL-2000/H-OL	FXL-3000/H-OL	FXL-3600/H-OL	FXL-5000/H-OL	FXL-6500/H-OL	FXL-7500/H-OL
Reflective Mirror Type	CXM-1 (Glass) 250 X 40 X 600	CXM-1 (Glass) 250 X 40 X 600	CXM-2 (Glass) 300 X 55 X 825	CXM-3 (Pyrex) 320 X 52 X 792	CXM-3C (Cold) 320 X 52 X 792	CXM-4C (Cold) 400 X 75 X 900	CXM-4C (Cold) 400 X 75 X 900	CXM-5C (Cold) 450 X 75 X 1100
Rectifier	FCX-70	FCX-70	FCX-80	FCX-100	FCX-140	FCX-160	FCX-180	FCX-200

XENON LAMP

FX SERIES XENON LAMP

Type	FXL-75	FXL-150	FXL-300	FXL-500D	FXL-1000	FXL-2000	FXL-2001	FXL3000	FXL-3600	FXL-5000	FXL-7500
Rated Input (W)	75	150	300	500	1000	1750	1750	2500	3360	4200	7500
Rated Current (A)	5.4	7.5	15	25	45	70	70	90	120	140	160
Current (A)	4.6~5.4	7.0~8.0	14~16	17~25	32~47	55~80	56~70	70~110	85~120	100~140	100~160
Voltage (V)	15	20 ± 2	20	20	22 ± 2	25 ± 2	25	25 ± 2	28 ± 2	30 ± 2	47
Full Luminous Flux (lm)	1400	4500	9900	16000	34000	61000	64000	83000	130000	165000	300000
Horizontal Luminous Indensity (cd)	150	460	1000	1700	3500	6700	6700	8600	14000	17000	31000
Averaged Life (h)	400	1500	1000	1500	1500	1500	1500	1200	1200	600	—
Permissible Angle (deg)	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°	V,H ± 15°
Cooling Condition	△	○	○	○	○	○	○	○	○	○	○
Wind Speed (m/sec)	—	3~6	4~6	4~6	4~6	4~6	4~6	10~13	10~13	10~13	10~13
Electrode Distance (mm)	0.6	2.1	2.6	4	5	6	6	7	7	7	13
Effective Overall Length (mm)	80 ± 2	125 ± 2	150 ± 2	204 ± 2	275 ± 2	320 ± 2	320 ± 2	350 ± 2	360 ± 2	380 ± 2	460
Fixing Size (φ)	—7.5 + 9.0	13	14	20	25	25	25	28	28	28	32
Annord Size (φ)	—	M4 X 0.7	M6 X 1.0	M8 X 1.25	18	18	M10 X 1.25	18	18	18	—
Cathode Screw Cap	—	M4 X 0.7	M6 X 1.0	M8 X 1.25	M10 X 1.25	M10 X 1.25	M10 X 1.25	M13 X 1.5	M13 X 1.5	M18 X 1.25	—
Weight (g)	20	50	75	150	300	500	500	600	950	1000	—

THYRISTOR RECTIFIER

FCX SERIES RECTIFIER&STARTER

A rectifier had an image to have been big & heavy and needed a wide space of its installation. However, CINEFORWARD new rectifiers eliminated such a poor image and made a great change in sufficient efficiency and easy operation. It also succeeded in down-sizing by 1/4 in comparison with our current models and the weight decreased by 1/4 as well. With the success of down-sizing, the rectifier works as if it were a part of the projector and hardly existed there. Moreover, the new rectifier accommodates SCR switching regulator system and accomplishes extremely high performance. It enables the starter light on at higher voltage.

Switching Regulator



FCX-160SR

FCX-80SR

Starters for Automatic Lighting



Lamp stem is easily screwed with hexagonal wrench in replacement.



SR attached to Projector Pedestal



Movable type Switching Regulator



Thyristor Rectifier

Type	FCX-80SR	FCX-100SR	FCX-120SR	FCX-160SR
Phase	Single/Three Phase	Single/Three Phase	Three Phase	Three Phase
Frequency	50Hz./60Hz.	50Hz./60Hz.	50Hz./60Hz.	50Hz./60Hz.
AC Input Voltage	100V/200V	100V/200V	200V	200V
Voltage Range	90~132V/180~264V	90~132V/180~264V	180~264V	180~264V
Current	Approx. 36A/9A	Approx. 47A/12A	Approx. 17A	Approx. 22A
Rated Voltage	25V	25V	28V	30V
Rated Current	70A	90A	120A	140A
DC Output Current Range	55~75A (Stand-By 20~75A)	55 \pm 5~100A (Stand-By 20~100A)	75 \pm 10~125A (Stand-By 40~125A)	100~150A (Stand-By 50~150A)
Non Load Voltage	Over 130V	Over 135V	Over 140V	Over 140V
Current Pulse Rate	Less Than 5%	Less Than 5%	Less Than 5%	Less than 5%
Dimention WHD	390 X 250 X 250	390 X 250 X 250	550 X 250 X 250	550 X 250 X 250
Xenon Bulb	2kW	3kW	3.6kW	5kW
Net Weight Approx	Approx. 13kg	Approx. 14kg	Approx. 18kg	Approx. 18kg

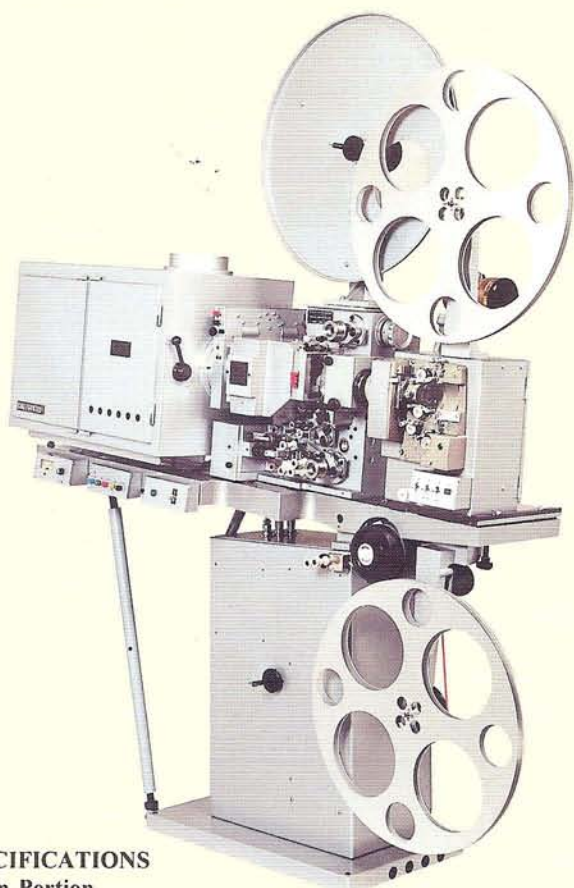
CINE FORWARD 16mm/35mm SOUND PROJECTOR

FD-A 16mm/35mm DUAL FORMAT SOUND PROJECTOR

With much experience and condensed technique, FD-A Sound Projector is newly developed. It has an ease of operation and exceeds the other projectors of the same type in brightness, screen stability and sound quality.

The projector, consisting of various units which make the maintenance & repair quite easy, is ensured in use by a minimized damage of the film.

Light source accommodates from 1KW to 3.6KW for the horizontal xenon lamphouse, resulting in bright & wide screen. It is very easy to change the format to let 16mm projector move forward & backward in one action.



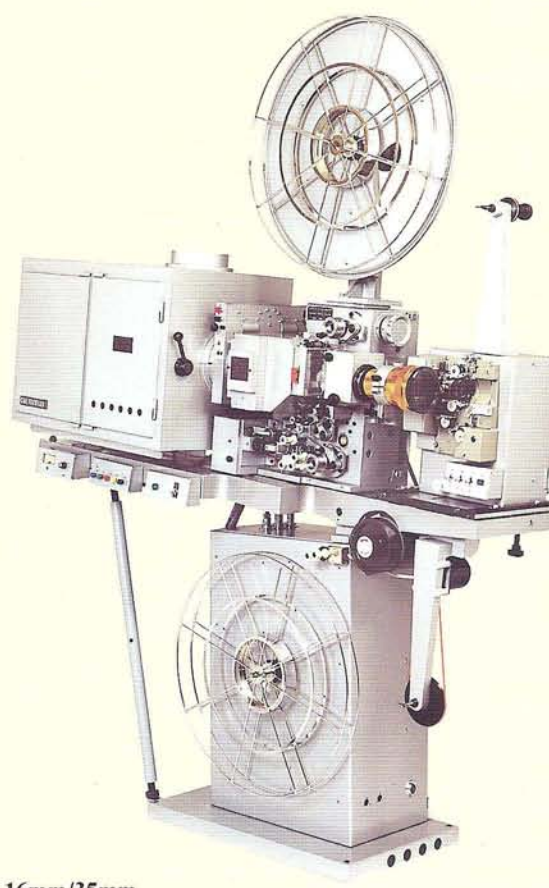
SPECIFICATIONS

35mm Portion

1. Type: All-closed, one-body, full automatic lubrication system
2. Aperture Mask: Lateral insert type
3. Film Trap: Parallel movable open/close system or Open/Close system
4. Film Skate: Separate anti-flapping for screen
5. Shutter: Conical shutter
6. Anamorphic Lens Holder: Single rotating system
7. Lens Holder: Single Pinion & Rack adjustment system
8. Lens Turret: Available upon request (Option)
9. Drive Motor: AC100V Induction Motor
10. Film Speed: 24+/-0.5 frames/sec.
11. Sound Reproduction System: Normal monaural optical system (Dolby Stereo available upon request - Option)
12. Slit Lens: RCA type
13. Exciter Lamp: DC6V1A
14. Reel in use: 3000ft (6000ft available - Option)
15. "Wow" and Flutter: less than 0.2%rms

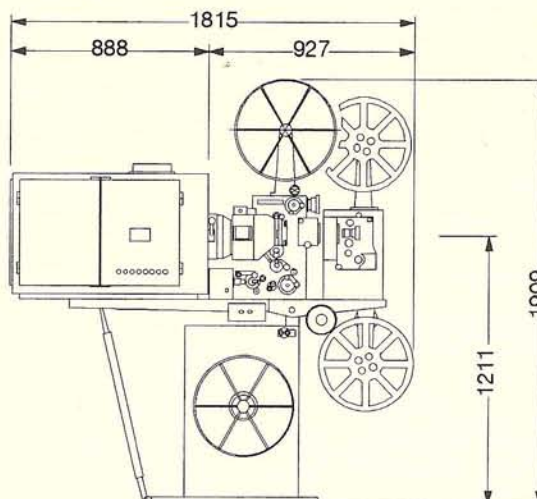
16mm Portion

1. Drive Motor: Single Induction Motor
2. Film Speed: 24+/-0.5 frames/sec.
3. Projection Lens: 50~100mm Zoom Lens (standard ass'y)
4. Anamorphic Lens & Lens Holder: Standard ass'y
5. Sound Reproduction System: Optical/Magnetic system
6. Exciter Lamp: 4V, 0.75A
7. "Wow" and Flutter: Less than 0.2%rms for Optical and less than 0.3% for Magnetic
8. Frequency: 50~8000Hz+/-6dB
9. S/N: under 40dB
10. Reel in use: 3000ft & 6000ft



16mm/35mm

1. Type: Up-right type
2. Lighting Source: Xenon Lamp (1KW, 2KW, 3KW & 3.6KW)
3. Change-over: Auto-changer, Auto-conductor built-in type
4. Change of 35mm/16mm: Slide type horizontally movable
5. Sound System: 16mm/35mm Pre-amplifier with Exciter Power Supply built in
6. Sound Out-put: 0dB 600 Ω Balance
7. Projection Angle: +4, -14
8. Weight: 240 Kgs



FIDELIS MULTI COATING AIR GAP LENS

MULTI COATING AIR GAP PROJECTION LENS



Air-Gapped System for Lens Configuration.

Projection Lenses have consisted of several lens elements and they have been chemically pasted each other. In the meantime, there have happened serious problems on the lens because the up-sized screens have required more powerful light source (Xenon Bulb), resulting the lens damaged by its heat. The heat of the light source has burned the chemicals pasted on between the lens elements. It has fatally affected the efficiency and life of the lens.

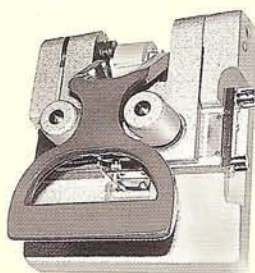
However, CINEFORWARD Air-Gapped Projection Lenses can prove sufficient to minimize such damages to be caused by the heat of the light source. Extremely precise grinding technique & Air-Gapped system can offer the stable projection. It comes to a conclusion, to clear another problem on the lens, that the multi-coated lens would be the best for the projection performance after the analysis of many experiments to solve the difficulty on the reflecting surface of the lens basically involved in the structure as it was.

Correct Placement of Lens Elements in calculation for minimization made by computer

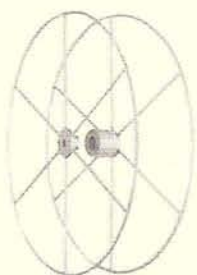
Each lens element is analyzed in details to maintain the high quality in precision. Lens Elements are designed for the re-adjustment of the resolution & contrast aberration and the characteristics of the materials including the process precision on a curved surface and then, all are placed properly. The purpose to do so is concentrated on to magnify and project the projection on film.

FILM REWINDER & CIRCULATOR

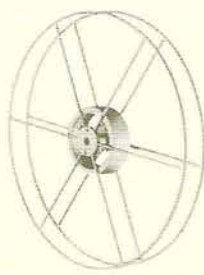
FILM REWINDER&CIRCULATOR etc



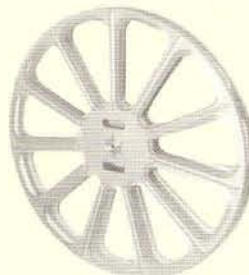
Film Tape Splicer



R-3W 3000ft split reel



R-3 3000ft Fixed Reel



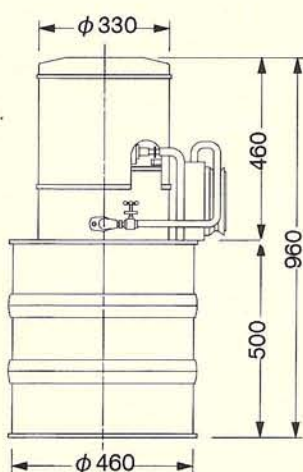
R-12 12000ft Reel



Reel Pole



CS-3 Water Cooled Circulator



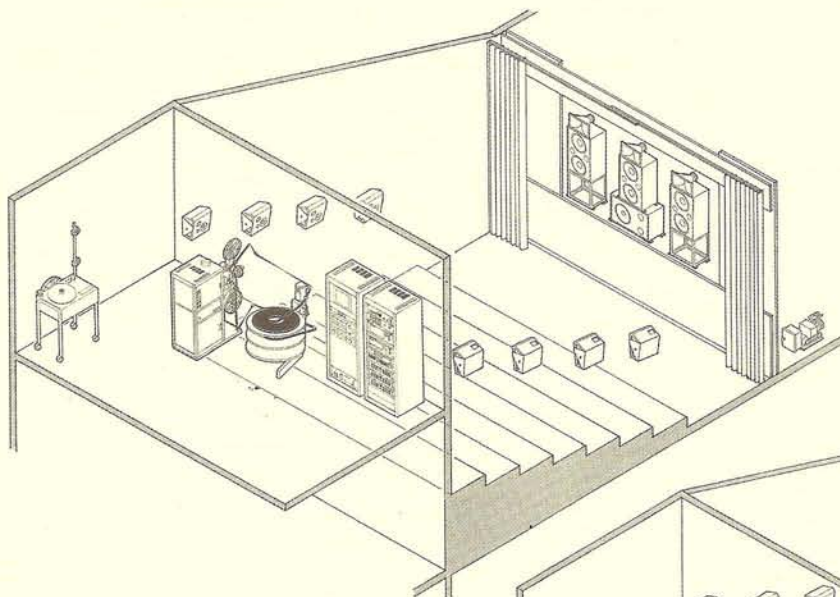
FW-3 Automatic Film Rewinder



FW-13C Automatic Film Rewinder

PROJECTION ENVIRONMENT

PROJECTION&SCREEN ENVIRONMENT



Index for Full Automatic Projection System

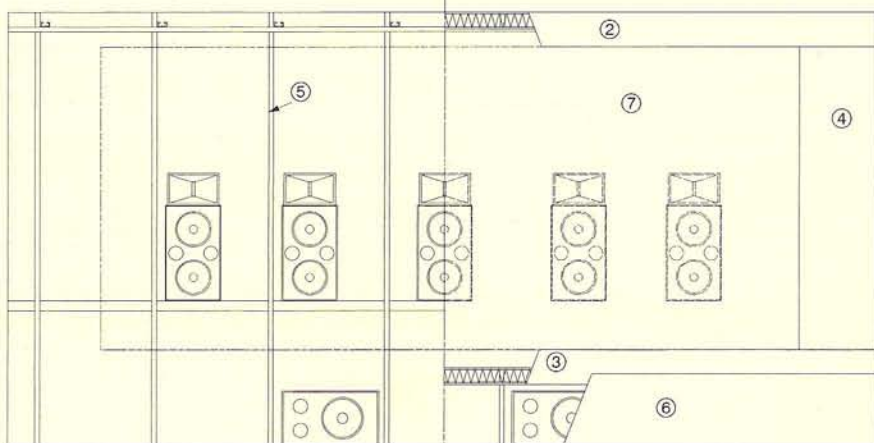
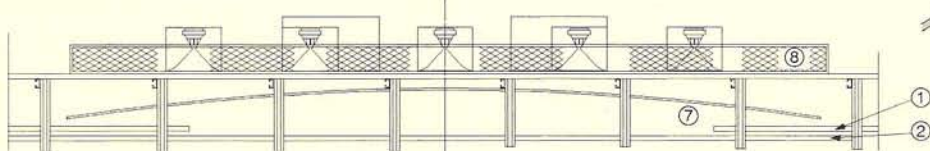
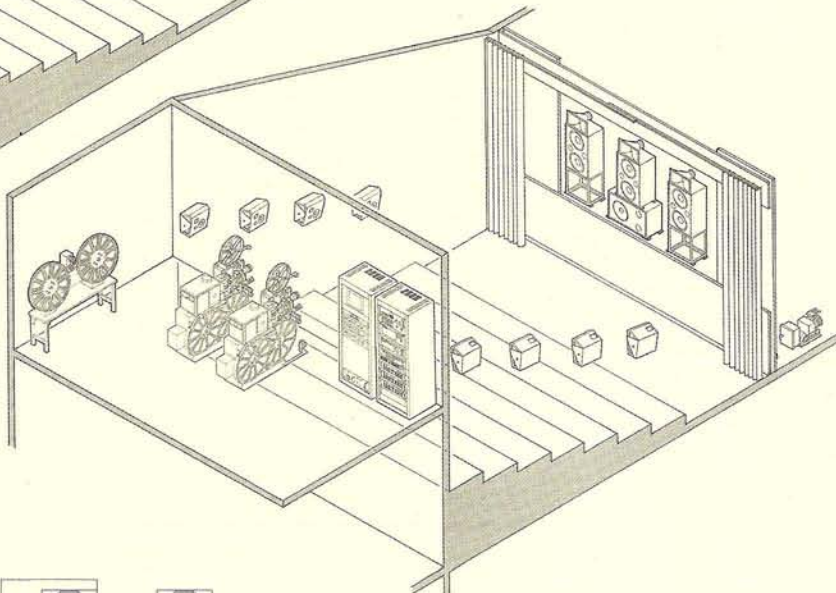
EX. FX-3000, Full Automatic Projection Unit

- | | |
|---|-----|
| 1. Full Automatic Projector, FX-3000CA IV | x 2 |
| 2. Liquid Crystal Programme Rack | x 1 |
| 3. Amplifier Rack | x 1 |
| 4. Main Speaker, TS940D | x 3 |
| 5. Super Woofer Speaker, TL550D | x 1 |
| 6. Surround Speaker, 8330 | x 8 |
| 7. Curtain Control Box | x 1 |
| 8. Film Re-winder, FW-13B | x 1 |
| 9 -Automatic Variable Open/Close Device | x 1 |

Index for Semi Automatic Projection System

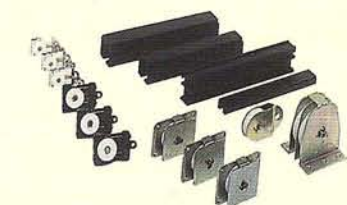
EX. PD-3000 Console System

- | | |
|---|-----|
| 1. Console Projector, FX-1000 | x 1 |
| 2. Platter, PD-3000 | x 1 |
| 3. Amplifier Rack | x 1 |
| 4. Main Speaker, TS940D | x 3 |
| 5. Super Woofer Speaker, TL550D | x 1 |
| 6. Surround Speaker, 8330 | x 8 |
| 7. Curtain Control Box | x 1 |
| 8. Make-up Table | x 1 |
| 9. Automatic Variable Open/Close Device | x 1 |



Index for Screen Front

- | |
|---|
| ① Masking Rail |
| ② Upper Movable Mask/
Upper Fixed Mask |
| ③ Lower Movable Mask |
| ④ Right & Left Movable
Mask |
| ⑤ 'C' Channel |
| ⑥ Lower Fixed Mask |
| ⑦ Screen |
| ⑧ Cat-Walk |



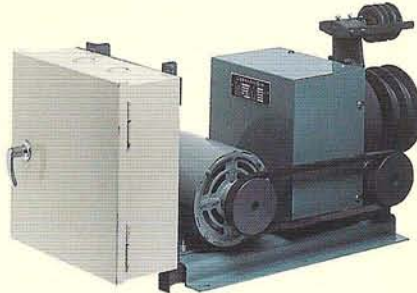
Rail, Runner Sheave,
Guide Sheave & Sheave on floor



Curtain Operation Box
(Variable)



Curtain Automatic Open/
Close Device



Automatic Variable
Open/Close Device

PRPDEX3000 THEATER TICKET SYSTEM

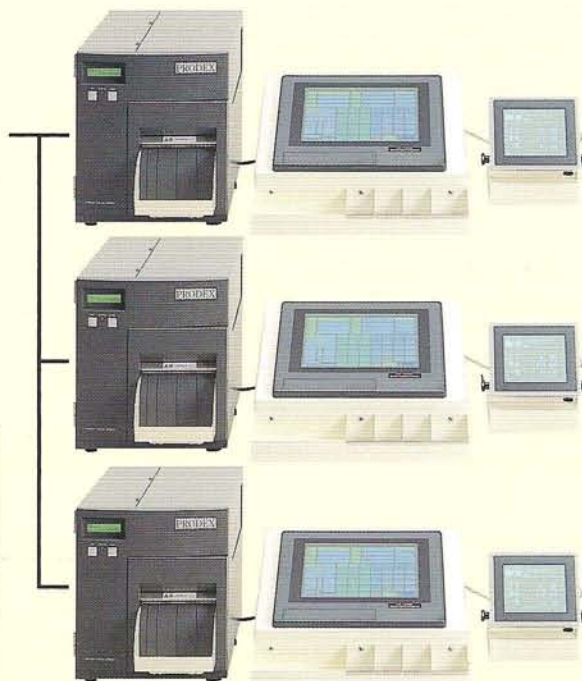
COMPUTER TICKET PUBLISHING MACHINE FOR THEATER

Self-Ticket Vending Machines only for Saving-manpower & Efficiency-the-first are decreasing. Instead, the ticket vending systems that a lady operator makes services at the counter of the theatres are increasing year by year. It is similar to the traditional orthodox vending style. CINEFORWARD PRODEX-3000 itself can help clients with the managements in many theatres. It provides to totally control the status of the ticketing with computer. It also accomodates the speed to serve the ticket and deal with lots of tickets in a short time. It is the best for Cinema Complex that manages several screens at the minimum service counters.

CINEFORWARD PRODEX-3000 consists of a main unit for the office and sub units for a ticketing counter. It is controlable for 3 sub units at maximum. The sub unit can be increased depending on the theatre scale & demand. Each sub unit has a printer of its own for the ticketing and it means a sub unit for a ticket service counter. The main unit can always show the sales data on demand as the ticketing data is transmitted through each sub unit. The collected data for a day can be printed out separately for each screen. It must be sure to save up!



シネマ 東京1	ダイバニック	210	シネマ 東京2	リーサルウェポン4	予約
シネマ 東京3	ディープコンパクト		シネマ 東京4	ゴジラ	01/02 01/03
シネマ 東京5	モケットボンスター		シネマ 東京6	仮名の男	01/04 01/05
シネマ 東京7	それいけカニパンマン		シネマ 東京8	今夜城	01/06 01/07
当日	1回目 09:20	2回目 13:10	大人 ¥1,800	大人割 ¥1,800	7-枠付
3回目 17:00	4回目 20:50	5回目	中高 ¥1,500	中高割 ¥1,400	7 8 9
6回目	7回目	8回目	中学 ¥1,300	中学割 ¥1,200	4 5 6
大人 3	¥5,400		小入 ¥1,000	小入割 ¥900	1 2 3
小入 1	¥1,000		幼児 ¥900	幼児割 ¥800	4 5 6
大塚 恵子	計 ¥6,400				1 2 3
01/01 12:11	予約 ¥10,000				4 5 6
	約 ¥3,600				7 8 9



FEATURES

- A system consists of the main unit for administration & sub unit for ticketing.
- A sub unit is increased by 3 units at maximum.
- Data can be reserved even when the electricity is off.
- A permanent power supply device works in such an emergency.
- Numbers of tickets sold are controlled statistically for 8 screens at maximum.
- 3 different shows for each screen are programmable.
- 8 shows a day for each screen are programmable.
- 72 kinds of tickets for a show are programmable.
- 1-999 seats for each show are programmable.
- Day, Week & Month reports for ea screen be totaled.
- Sales, Nrs. of visitors & time meter can be referred.

SPECIFICATIONS ON MAIN UNIT

(Option - Management of a shop for 35 items available)

1. OS: Windows NT4.0
2. CPU: Pentium Pro/200MHz
3. Chip Set: Intel 440FX PCiset
4. Main Memory: EDO Memory; 32MB (16MB x 2)
5. HD Capacity: 2GB

SPECIFICATIONS ON SUB UNIT

1. OS: MS-DOS Ver6.2
2. CPU: AM5X86/133MHz (Made by AMD)
3. NDP: Built-in CPU
4. Indication Device: TFT system Color LCD
5. Dot: 640 x 480 dots
6. Dot Pitch: 0.3mm
7. System: Analog Resistance Film Touch Panel
8. Resolution: 1024 x 1024

南大塚プラザ 0001
ハリウッド・ムービー

南大塚プラザ 0001
ハリウッド・ムービー

99/02/26 入場券

99/02/26 入場券

南大塚プラザ 1回目 10:30
ハリウッド・ムービー 一般 ¥1,800

南大塚プラザ 1回目 10:30
ハリウッド・ムービー 一般 ¥1,800

指定の上映回にのみ有効

ご入場前の切り離し無効

99/02/26 入場券
1回目 10:30
一般 ¥1,800

99/02/26 入場券
1回目 10:30
一般 ¥1,800

指定の上映回にのみ有効

ご入場前の切り離し無効

These tickets are actual sizes.



JAPAN ELECTRONIC OPTICAL CO., LTD.
NIPPON DENSHI KOGAKU CO., LTD.

32-4, MINAMI-OTSUKA, 2-CHOME,
TOSHIMA-KU, TOKYO, JAPAN
TEL (03) 3945-1831 FAX (03) 3944-1748