

Table of Contents

Preface	5
Who Should Read This Book	5
Organization and Content	6
Acknowledgments	7
Contacting the Author	7
About the Author	8
Table of Contents	9
Part I: Preparation for a Movie Theater Valuation	17
Chapter 1: Overview of Industry	19
Introduction	19
History	19
National – International Trade Organizations	22
Exhibition Industry Overview	22
Trends	23
Screen Expansion	23
Revenue Growth Trends	24
Mergers and Acquisitions	26
Changing Release Patterns	27
Online Ticketing	27
Movie Theater Demand	28
Demographics	28
Movie Distribution Channels	30
Hollywood Revenue Channels	31
Major vs. Independent	32
Supply of Quality First Run Films	33
Current Renovation Trends of Facilities	35
Film Distribution Negotiations & Licensing	36
Competitive Bidding/Track System	36

Table of Contents

Split Agreements	36
Pre-Screening Reviews	36
Seasonality of Releases	37
Relationship Between Exhibitors & Distributors	37
Film Licensing & Pricing Formulas	38
Distribution Zones	39
First and Second Run Dynamics	40
Competition	41
Rivalry Among Competitors	42
The Allocation Process	43
Expanding Amenities for Patrons	44
Threat of Substitutes and Alternatives to Movie Theaters	44
Revenue Streams in Relation to DVDs	46
Theatrical Release Window	46
DVD Sales	46
DVD Rental Market	47
Risks	48
Seasonality	48
Dependence Upon Motion Picture Production and Performance	49
Dependence on Relationships with Film Distributors	49
Landlords	49
Regulatory Environment	49
Americans with Disabilities Act	49
Minimum Wage	50
Construction and Environmental Hazards	50

Chapter 2: Analyzing a Theater's Financial Statements & Operations 51

Overview	51
A Theater Operator's Business Strategy	53
Operating Revenue From Theaters	54
Theater's Revenue And Expense Sources	54
Box Office Revenue	54
Concessions	55
Advertising Revenue	55
Other Revenue Streams	55
Operating Expenses Of Theaters	56
Film Rental and Advertising Expenses	56
Operating Costs	56
Concession Costs	56
Advertising Expenses	57
Personnel Expense	57
General and Administrative Expense	57
Depreciation and Amortization	57
Lease and Facility Expenses (Real Estate)	57
Utilities and Facilities Expenses	57
Miscellaneous Operating Expenses	57
Summary	57
Liquidity and Capital Resources	58
Working Capital	58
Capital Expenditures	58
Review of Theater's Financial Position	59
Activity Ratios	62
Liquidity Ratios	63
Long Term Debt and Solvency Ratios	64
Theater Profitability Ratios	65
DuPont Model	68
Movie Industry Comparable Analysis	71

Typical Movie Theater Activity Ratios	72
Inventory Turnover	72
Receivables Turnover	72
Working Capital Turnover	73
Fixed Net Asset Turnover	73
Typical Movie Theater Liquidity Ratios	74
Current Ratio	74
Quick Ratio	75
Typical Movie Theater Long Term Debt & Solvency Ratios	75
Debt to Total Capital	75
Debt to Equity	76
Interest Coverage Ratios	76
Typical Movie Theater Profitability Ratios	77
Gross Margin & Operating Margin	77
EBIT Margin	78
EBITDA Margin	78
Profit Margin	78
Concession Sale Profitability Margins	78
Return on Assets	79
Return on Equity	80
Return on Investment	80
Secondary Sources of Movie Theater Norms and Business Ratios	81
Adjustments for Extraordinary and Nonrecurring Items	82
Choice of Business Entity	86
Checklist of Important Items for Theater Valuations	87
Company History and Background	87
Industry Analysis	88
Marketing and Sales	88
Exhibition	89
Financial and Accounting Overview	89
Reporting Systems/Controls	90
Taxes	90
Personnel and Management	90
Chapter 3: Summary of Business Valuation Approaches	91
Overview	91
Cost Approach	92
Market Approach	92
Summary	93
Income Approach	93
Reconciliation	94
Part II: Techniques for Valuing a Theater's Business	95
Chapter 4: Business Valuation (Adjusted Book Value or Cost Approach)	97
Overview	97
Assets	97
Cash	98
Accounts Receivable	98
Inventories	98
Other Current Assets	99
Fixed Tangible Assets	99
Nonoperating Assets	99
Intangible Assets	99

Table of Contents

Liabilities and Equity	100
Long Term Debt	100
Deferred Taxes	100
Contingent Liabilities	101
Stockholders' Equity	101
Additional Adjustments	101
Forced Liquidation	101
Summary	101
Chapter 5: Business Valuation (Market Approach)	105
Overview	105
Using Public Companies	105
How the Economy/Industry Impacts a Business	106
Selection of Comparable Companies	106
Comparable Movie Theater Companies	107
How Similar are the Comparables to the Subject Company?	107
Valuation Multiples (Equity Value versus Debt-Free)	108
Valuation Example	111
Adjustments of Cash Flow	111
Publicly Traded Information	112
Valuation of Small Companies	116
Owner's Discretionary Cash Flow	117
Owner's Discretionary Cash Flow (ODCF) Example	118
Subject Movie Theater Value Based Upon ODCF Multiples	120
Subject Company Concluded Value Based on ODCF and Revenue	121
Rules of Thumb	122
Problems with Rules of Thumb	122
Movie Theater Business Valuation Rules of Thumb	123
Chapter 6: Business Valuation (Income Approach)	125
Introduction	125
Free Cash Flow to Equity Model (valuing the equity)	126
Free Cash Flow to the Firm Model (valuing the company)	127
EBITDA Model	127
Problems with Models	127
Relationship between Discount and Capitalization Rates	127
Capitalization	128
Discounted Cash Flow	129
Discount Rates and Value	131
Business Size and Discount Rates	131
Price to Yield Relationship	132
Calculating Discount Rates	134
Calculating Equity Discount Rates	135
Build Up Method	135
Secondary Sources	137
Surveys	138
Industry Peers	138
Small Company Equity Discount Rates	138
Calculating a Weighted Average Cost of Capital (WACC)	139
WACC Example	140
Asset versus Stock Sale Discount Rates	140
Growth Rates	140
Growth Rates of Cash Flow to Firm vs. to Equity	141
Growth With and Without Corresponding Increases in Debt	142
Changes in Working Capital	142
Working Capital Red Flags	142

Working Capital as Percentage of Sales	143
Changes in Capital Expenditures	144
Terminal (Ending) Value in a Discounted Cash Flow	144
Example of a Terminal Value Calculation	145
Subject Company Example-Putting it all together	146
Assumptions	146
Equity Discount Rate Calculation	146
Firm Discount Rate Calculation	148
Putting it all together - Multiple Site Exhibition Movie Company	151
Assumptions	151
Equity Discount Rate Calculation	151
Firm Discount Rate Calculation	152
Debt Free Cash Flow Analysis	153
Addendum A: Calculation of Beta	157
Part III: Valuing the Asset Components of a Theater	159
Chapter 7: Asset Valuation (Real Estate)	161
Introduction	161
Valuing A Movie Theater Real Estate Assets	161
Valuation Example	161
Ownership Interests	162
General Land and Building Analysis	164
Market Analysis	165
Different Types of Movie Theaters	165
Traditional Movie Theater	165
Outdoor Theater	166
IMAX Theater	166
Multiplex	167
Megaplex Theater	167
First - Second Run Theater	168
Theater Development	168
Industry Standard	168
Trends in Theater Development	169
Sample A (Pre-Megaplex)	169
Sample B (Megaplexes)	171
Land Area	173
Location	173
Floor Area Ratio (FAR)	173
Number of Seats per Screen	174
Square Feet of Building per Seat	174
Parking Spaces per Seat	175
Theater Construction Models	175
Market Analysis	176
Leases & Lease Statistics	176
Lease Terms	176
Theater Rent Rules of Thumb	177
Typical Rental Rates in Different Markets	177
Lease Types	177
Why Location is Important	182
Retail	182
Valuation Approaches	183
Cost Approach to Value	185
Land Value	185
Estimate of Improvement Cost	186
Entrepreneurial Profit	187

Table of Contents

Accrued Depreciation Estimates	187
Depreciated Value of the Subject	189
Direct Comparison Approach (Market Approach)	189
Adjustments	190
Sales Comparison Approach Analysis	192
Income Approach	192
Comparable Leases	193
Market Rent Conclusions	194
Vacancy and Collection Loss	194
Explanation of Operating Expenses	195
Selection of Capitalization Rate	195
Summary (Concluded Value)	196

Chapter 8: Theater Asset Valuation (Equipment) 199

Introduction	199
Value Definitions	201
Purposes of Valuation Relative to Definitions of Value	201
Approaches to Valuation	202
Cost	202
Sales	202
Income	202
Identification/Classification of Property	204
Data Sources	205
A Detailed Look at Typical Exhibition Equipment	205
Movie Exhibition	205
Description of Equipment	206
Projection Booth	206
Projector	206
35mm Film	206
Tower vs. Platter Systems	207
Tower System	207
Platter System	207
IMAX	207
Digital	207
Lens	208
Lamps	208
Console	208
Make-up Table	208
Film Splicer	208
Sound System	208
Digital Theater Systems	209
Dolby Digital	209
Surround Sound	210
Sony Dynamic Digital Sound	210
Amplifier	210
Speakers	210
THX	210
Licensing Agreement	211
Design	211
The THX Certification Process	211
Acoustics	211
Projection	212
Speakers	212
Auditoriums	213
Screens	213
Most Common Screen Type	214
Curvature of Screen	214

Seats	214
Concessions Stand & Box Office	215
American Tradition	216
Industry Trends	216
Equipment	216
Box Office - Point of Sale	216
Box Office - Marquee	217
Cost Approach	217
Installation Expenses	217
Indexes (Trending)	218
Trending Example	218
Depreciation	218
Example (1) of Age Life Analysis	220
Example (2) of Age/Life Analysis	221
Example of Economic Obsolescence	223
Market Approach	223
Items of Comparability and Techniques	223
Income Approach	225
Equipment Valuation Example	225
Analog/Digital Processor	226
Cinema Seating Valuation	226
Observation	228
Basic Budgetary Estimates for our Subject Property	229
Data Specification Sheet for Furniture, Fixtures & Equipment	232
Appraisers, Liquidators & The Auction Game	233
Auctions	233
Liquidation	234
Data Resources	236
References, Definitions & Glossary	239
Selected References	239
Movie Exhibition Industry Specific	239
Private Equity Business Valuation & Brokerage	240
Real Estate	243
Machinery & Equipment	244
Business Appraisal Definitions	244
Real Estate Appraisal Definitions	245
Machinery and Equipment Appraisal Definitions	245
Glossary of Business Valuation Definitions	247
Movie Theater Glossary of Terms	251
Business Valuation Resources and Where to Obtain It	258
Index	265