# Contents

4	Indus divistina	4
1	Introduction	- 1

#### 2 What equipment and software do you need? 3

Computer

Hard drives

Hardware

Software

The sounds

Sample rate, bit depth and quality

Articulations

Controllers and using the articulations

MIDI controllers

Using different notes on the keyboard

Other considerations

Conclusions

#### 3 What is MIDI? 11

MIDI and the synthetic orchestra

Working with MIDI data

#### 4 The orchestra and its synthetic equivalent 19

Articulations

Instruments of the orchestra

Strings

Woodwinds

Brass

Keyboard instruments

Instrument note ranges

Instrument range diagrams

Timbre

Position and number of players

#### 5 The basics of orchestration 27

What is orchestration?

Where to begin

Avoiding problems

Improving your orchestrating skills
Fit the score around the song
Listen, listen and listen!
Slurring
Think real
Adding extra colours
Know your instruments
The instruments – some extra useful tips
Other string instrument limitations
Brass instruments

### 6 Scoring in the sequencer 35

Getting started
The arrangement
A bit about the frequency spectrum
Adding some orchestral colours to a pop or rock track
Creating a more conventional 'orchestral-only' track
Using the features of your orchestral library
Finding the right sounds
Use the correct instrument
Articulations
String articulations
Brass and woodwind articulations
Creating the score
Variety – the spice of the orchestra
Adding the real thing

### 7 MIDI and the score 49

Entering MIDI note data – creating the score
Editing note data – editing the score
Editing the MIDI data
Controlling articulations
Controlling dynamics
Controlling the timbre
The importance of legato
Humanising the performance
Enhancing the score
Adding extra instruments
More on quantization
Tempo and time signature

### 8 Mixing 69

Getting started Levels Effects and the mix buss Mastering Mastering tools

## 9 Producing a score for real musicians 87

The score
Transposition
Common transposing instruments
The musicians' skill levels
Working with the players
Bringing a recording

Appendix 1 Glossary 93

Appendix 2 The internet 97

Index 99

### 9 Producing a score for real musicians 87

The score
Transposition
Common transposing instruments
The musicians' skill levels
Working with the players
Bringing a recording

Appendix 1 Glossary 93

Appendix 2 The internet 97

Index 99