

LIGHTWAVE 3D LAYOUT 09

CTRL + A	Select All Objects
CTRL + B	IK Boost Tool
CTRL + C	Clone Current Item
CTRL + D	Sliders
CTRL + E	FX Tool
CTRL + F	Lens Flare Options
CTRL + G	Move TCB Tool
(BS) CTRL + H	Light Intensity Tool
TAB	Hide Floating Windows ON/OFF
CTRL + J	BT_Joint Move
CTRL + K	BT_Bone Twist
CTRL + L	Limited Region On/Off
RETURN	Create Key
CTRL + N	Add Null
CTRL + O	
CTRL + P	Add Partigons
CTRL + Q	Master Plug-ins
CTRL + R	Bone Activation On/Off
CTRL + S	Save Scene As
CTRL + T	BT_Tip Move
CTRL + U	BT_Unparent Bone
CTRL + V	Volumetric Lighting Options
CTRL + W	BT_Mirror Hierarchy
CTRL + X	FX Start
CTRL + Y	Path Tool
CTRL + Z	
ESCAPE	Change Tool
SPACE	
!	
#	
\$	
%	
&	
'	Select Item By Name
(
)	
+	Load Object
-	Zoom Out
.	Clear Selected Items
/	Zoom In
0	Camera Zoom Tool
1	Single View On/Off
2	View Mode: Back
3	View Mode: Top
4	View Mode: Right
5	View Mode: Perspective
6	View Mode: Light
7	View Mode: Camera
8	View Mode: Schematic
9	
:	
<	Zoom Out X2
>	Add Child Bone
@	Zoom In X2
A	Fit Selected Items in View
B	Edit Mode: Bones
C	Edit Mode: Cameras
D	BT_Exit Setup Mode
E	BT_Enter Setup Mode
F	Lens Flare ON/OFF
G	
H	Size Tool
I	BT_Import Hierarchy
J	BT_Export Hierarchy
K	
L	Edit Mode: Lights
M	
N	Edit Mode: Objects
O	Record Pivot Rotation
P	
Q	Bone Rest Length Tool
R	Incremental Scene Saver
S	
T	
U	
V	Multi-Mirror
W	
X	
Y	
Z	
[Decrease Grid Size
\	Increase Grid Size
]	
^	
_	
`	Fit All Items in View
a	
b	
c	
d	Display Items
e	
f	Go To Frame
g	Center View on Mouse Pointer
h	Stretch Tool
i	
j	
k	Adjust Limited Region Tool
l	Motion Options
m	Numeric Input
n	General Options
o	Item Properties Open/Close
p	
q	Record Bone Rest Position
r	
s	
t	Move Tool
u	
v	Scene Statistics
w	
x	Rotate
y	Redo
z	

	Record Minium Joint Angles
	Record Maximum Joint Angles
F1	Help File
F2	Motion Mixer
F3	Previous Viewport Layout
F4	Next Viewport Layout
F5	Surface Editor ON/OFF
F6	Image Editor ON/OFF
F7	Viper ON/OFF
F8	Presets Panel
F9	Render Current Frame
F10	Render Scene
F11	Render Selected Objects
F12	Switch to Modeler
→	Go to Next Frame
←	Go to Previous Frame
↑	Select Previous Item
↓	Select Next Item
DELETE	Delete Key
INSERT	Pause
HOME	First Frame
END	Last Frame
PAGE UP	Play Forward
PAGE DOWN	Play Backward
SHIFT + F1	Auto Key ON/OFF
SHIFT + F2	X Axis/Heading Angle ON/OFF
SHIFT + F3	Y Axis/Pitch Angle ON/OFF
SHIFT + F4	Z Axis/Bank Angle ON/OFF
SHIFT + F5	Coordinate System: World
SHIFT + F6	Coordinate System: Parent
SHIFT + F7	Coordinate System: Local
SHIFT + F8	Enable IK ON/OFF
SHIFT + F9	Motion Blur/DOF Preview
SHIFT + F10	
SHIFT + F11	
SHIFT + F12	
CTRL + F1	
CTRL + F2	Graph Editor Open/Close
CTRL + F3	
CTRL + F4	
CTRL + F5	BackDrop Options
CTRL + F6	Volumetrics and Fog Options
CTRL + F7	Compositing Options
CTRL + F8	Image Processing Options
CTRL + F9	
CTRL + F10	
CTRL + F11	
CTRL + F12	
OPT + F1	
OPT + F2	Hide Toolbar ON/OFF
OPT + F3	Show Subpatch Cages ON/OFF
OPT + F4	Show Motion Paths ON/OFF
OPT + F5	Show Handles ON/OFF
OPT + F6	Show IK Chains ON/OFF
OPT + F7	Show Safe Areas ON/OFF
OPT + F8	Show Field Chart ON/OFF
OPT + F9	Edit Keyboard Shortcuts
OPT + F10	Edit Menu Layout
OPT + F11	Edit Plug-ins
OPT + F12	Set Content Directory
SHIFT + →	Go to Next Key
SHIFT + ←	Go to Previous Key
SHIFT + ↑	Select First Item
SHIFT + ↓	Select Last Item
CTRL + →	
CTRL + ←	
CTRL + ↑	Select Previous Sibling
CTRL + ↓	Select Next Sibling
OPT + →	
OPT + ←	
OPT + ↑	
OPT + ↓	
OPT +	
OPT + A	
OPT + B	
OPT + C	
OPT + D	
OPT + E	
OPT + F	
OPT + G	
OPT + H	
OPT + I	
OPT + J	
OPT + K	
OPT + L	
OPT + M	
OPT + N	
OPT + O	
OPT + P	
OPT + Q	
OPT + R	
OPT + S	
OPT + T	
OPT + U	
OPT + V	
OPT + W	
OPT + X	
OPT + Y	
OPT + Z	
CTRL + OPT	Zoom
OPT	Pan
SHIFT + OPT + LB	Perspective View
SHIFT + OPT + RB	Pan Z & Z
OPT	Pan Y
OPT	Orbit
SHIFT + CTRL + LB	Mouse Menus
SHIFT + CTRL + MB	Menus
SHIFT + CTRL + RB	Windows
	File/Object Operations

LIGHTWAVE 3D MODELER 09

CTRL + A	Fit All Items in One View
CTRL + B	Edge Bevel
CTRL + C	
CTRL + D	Freeze Curves & Patches
CTRL + E	Measure Tool
CTRL + F	Make Spline Patch
CTRL + G	Selection Mode: Point
(BS) CTRL + H	Selection Mode: Polygon
TAB	Toggle Faces/SubPatches
CTRL + J	Selection Mode: Volume
CTRL + K	Spin Quad Pairs
CTRL + L	Split Polygons
RETURN	Deselect Tool (Make)
CTRL + N	End Control Point ON/OFF
CTRL + O	
CTRL + P	Make Open Curve
CTRL + Q	Zoom Tool
CTRL + R	Rail Extrude
CTRL + S	Save Scene As
CTRL + T	Drag Tool
CTRL + U	Unweld Points
CTRL + V	
CTRL + W	Weld Points
CTRL + X	
CTRL + Y	Array
CTRL + Z	
ESCAPE	Change Selection Mode
SPACE	
!	
#	Invert Selection
\$	
%	
&	
'	Swap Front and Back Layers
(
)	
+	Point Tool
-	Zoom Out
.	Hide Selected
/	Zoom In
0	Drop Current Selection
1	
2	
3	
4	
5	
6	
7	
8	
9	
:	Magnet Tool
<	Drag Network Tool
>	Zoom Out X2
@	Zoom In X2
A	Fit Selected Items in View
B	Boolean CSG
C	Solid Drill
D	Subdivide Polygons
E	Extrude Tool
F	Smooth Shift
G	Snap Drag Tool
H	Size Tool
I	Unify Polygons
J	Jitter
K	Knife Tool
L	Lathe Tool
M	Smooth
N	New Object
O	Ball Tool
P	Motion Path Extrude
Q	Quit
R	Template Drill
S	Incremental Object Saver
T	Convert Polygons to Triangles
U	Cut (Multiply > Cut)
V	Mirror
W	Text Tool
X	Box Tool
Y	Symmetry ON/OFF
Z	Merge Polygons
[Shear Tool
\	Unhide All (make Visible)
]	Selected Connected
^	
_	Clear Map from Vertices
`	Sketch Tool
a	Fit All Items in View
b	Bevel
c	Clone
d	Display Options
e	Extender Plus
f	Flip Polygons
g	Center View on Mouse Pointer
h	Stretch Tool
i	Selection Info
j	Jump Points
k	Remove Polygons
l	Bridge Tool
m	Merge Points
n	Numeric Options Open/Close
o	General Options
p	Make Polygons
q	Change Surface
r	Rotate 90° Right
s	
t	Move Tool
u	
v	Set Value
w	Statistics Open/Close
x	
y	Rotate Tool
z	Redo

	Record Minium Joint Angles
	Record Maximum Joint Angles
F1	Help File
F2	Center Data
F3	Rest On Ground
F4	Rotate To Ground
F5	Surface Editor ON/OFF
F6	Image Editor ON/OFF
F7	Layer Browser ON/OFF
F8	Vertex Maps ON/OFF
F9	Presets Panel ON/OFF
F10	Manage Fonts
F11	Add Plug-ins
F12	Switch to Layout
→	Scroll Left
←	Scroll Right
↑	Scroll Up
↓	Scroll Down
DELETE	Delete
INSERT	Insert Layer
HOME	Delete Layer
END	Object Collasper
PAGE UP	Shift Layers Up
PAGE DOWN	Shift Layers Down
SHIFT + F1	Set Viewport: Back/Front
SHIFT + F2	Set Viewport: Top/Bottom
SHIFT + F3	Set Viewport: Right/Left
SHIFT + F4	Set Viewport: Perspective/UV
SHIFT + F5	Action Center: Mouse
SHIFT + F6	Action Center: Origin
SHIFT + F7	Action Center: Pivot
SHIFT + F8	Action Center: Selection
SHIFT + F9	Guess Viewport UV Image
SHIFT + F10	
SHIFT + F11	
SHIFT + F12	
CTRL + F1	Thickener
CTRL + F2	
CTRL + F3	
CTRL + F4	
CTRL + F5	
CTRL + F6	
CTRL + F7	
CTRL + F8	
CTRL + F9	
CTRL + F10	
CTRL + F11	
CTRL + F12	
OPT + F1	Hide Floating Windows ON/OFF
OPT + F2	Hide Toolbar ON/OFF
OPT + F3	
OPT + F4	
OPT + F5	
OPT + F6	
OPT + F7	
OPT + F8	
OPT + F9	
OPT + F10	Edit Keyboard Shortcuts
OPT + F11	Edit Menu Layout
OPT + F12	Edit Plug-ins
SHIFT + X4	Scroll Left X4
SHIFT + X4	Scroll Right X4
SHIFT + X4	Scroll Up X4
SHIFT + X4	Scroll Down X4
CTRL + →	
CTRL + ←	
CTRL + ↑	
CTRL + ↓	
OPT + →	Nudge Left
OPT + ←	Nudge Right
OPT + ↑	Nudge Up
OPT + ↓	Nudge Down
OPT +	
OPT + A	
OPT + B	
OPT + C	
OPT + D	
OPT + E	
OPT + F	
OPT + G	
OPT + H	
OPT + I	
OPT + J	
OPT + K	
OPT + L	
OPT + M	
OPT + N	
OPT + O	
OPT + P	
OPT + Q	
OPT + R	
OPT + S	
OPT + T	
OPT + U	
OPT + V	
OPT + W	
OPT + X	
OPT + Y	
OPT + Z	
CTRL + OPT	Zoom
SHIFT + OPT	Pan
OPT	Orbit
	Selection
"	Invert Selection
?	Select Connected
?	Invert Connected
{	Contract Selection
}	Expand Selection
]	Visibility
-	Hide Selected
=	Hide Unselected
	Invert Hidden
\	Unhide All (Make visible)
	Layers
'	Swap Front and Back Layers
INSERT	Insert Layer
HOME	Delete Layer
PAGE UP/DOWN	Shift Layers UP/DOWN

LIGHTWAVE 3D LAYOUT

09
LIGHTWAVE 3D

CONTINUED

SHIFT + OPT + A	
SHIFT + OPT + B	
SHIFT + OPT + C	
SHIFT + OPT + D	
SHIFT + OPT + E	
SHIFT + OPT + F	
SHIFT + OPT + G	
SHIFT + OPT + H	
SHIFT + OPT + I	
SHIFT + OPT + J	
SHIFT + OPT + K	
SHIFT + OPT + L	
SHIFT + OPT + M	
SHIFT + OPT + N	
SHIFT + OPT + O	
SHIFT + OPT + P	
SHIFT + OPT + Q	
SHIFT + OPT + R	
SHIFT + OPT + S	
SHIFT + OPT + T	
SHIFT + OPT + U	
SHIFT + OPT + V	
SHIFT + OPT + W	
SHIFT + OPT + X	
SHIFT + OPT + Y	
SHIFT + OPT + Z	
SHIFT + CTRL + A	
SHIFT + CTRL + B	
SHIFT + CTRL + C	
SHIFT + CTRL + D	
SHIFT + CTRL + E	
SHIFT + CTRL + F	
SHIFT + CTRL + G	
SHIFT + CTRL + H	
SHIFT + CTRL + I	
SHIFT + CTRL + J	
SHIFT + CTRL + K	
SHIFT + CTRL + L	
SHIFT + CTRL + M	
SHIFT + CTRL + N	
SHIFT + CTRL + O	
SHIFT + CTRL + P	
SHIFT + CTRL + Q	
SHIFT + CTRL + R	
SHIFT + CTRL + S	
SHIFT + CTRL + T	
SHIFT + CTRL + U	
SHIFT + CTRL + V	
SHIFT + CTRL + W	
SHIFT + CTRL + X	
SHIFT + CTRL + Y	
SHIFT + CTRL + Z	

LIGHTWAVE 3D MODELER

09
LIGHTWAVE 3D

CONTINUED

SHIFT + OPT + A	
SHIFT + OPT + B	
SHIFT + OPT + C	
SHIFT + OPT + D	
SHIFT + OPT + E	
SHIFT + OPT + F	
SHIFT + OPT + G	
SHIFT + OPT + H	
SHIFT + OPT + I	
SHIFT + OPT + J	
SHIFT + OPT + K	
SHIFT + OPT + L	
SHIFT + OPT + M	
SHIFT + OPT + N	
SHIFT + OPT + O	
SHIFT + OPT + P	
SHIFT + OPT + Q	
SHIFT + OPT + R	
SHIFT + OPT + S	
SHIFT + OPT + T	
SHIFT + OPT + U	
SHIFT + OPT + V	
SHIFT + OPT + W	
SHIFT + OPT + X	
SHIFT + OPT + Y	
SHIFT + OPT + Z	
SHIFT + CTRL + A	
SHIFT + CTRL + B	
SHIFT + CTRL + C	
SHIFT + CTRL + D	
SHIFT + CTRL + E	
SHIFT + CTRL + F	
SHIFT + CTRL + G	
SHIFT + CTRL + H	
SHIFT + CTRL + I	
SHIFT + CTRL + J	
SHIFT + CTRL + K	
SHIFT + CTRL + L	
SHIFT + CTRL + M	
SHIFT + CTRL + N	
SHIFT + CTRL + O	
SHIFT + CTRL + P	
SHIFT + CTRL + Q	
SHIFT + CTRL + R	
SHIFT + CTRL + S	
SHIFT + CTRL + T	
SHIFT + CTRL + U	
SHIFT + CTRL + V	
SHIFT + CTRL + W	
SHIFT + CTRL + X	
SHIFT + CTRL + Y	
SHIFT + CTRL + Z	

LIGHTWAVE 3D GRAPH EDITOR

09
LIGHTWAVE 3D

CONTINUED

CTRL + A	Autofit by Type
CTRL + B	Match Footprint Time Slice
CTRL + C	Copy Time Slice
CTRL + D	
CTRL + E	
CTRL + F	Fit Values by Type
CTRL + G	
(BS) CTRL + H	
TAB	
CTRL + J	
CTRL + K	
CTRL + L	
RETURN	Create Key
CTRL + N	
CTRL + O	
CTRL + P	
CTRL + Q	
CTRL + R	
CTRL + S	
CTRL + T	
CTRL + U	
CTRL + V	Paste Time Slice
CTRL + W	
CTRL + X	Copy Footprint Time Slice
CTRL + Y	
CTRL + Z	Undo
ESCAPE	
SPACE	Select Next Tool
!	Filter Position Channels
"	
#	Filter Scale Channels
\$	
%	
&	
'	
(
)	Set Key Reduction Threshold
*	
+	Add Keys Tool
-	Zoom Out
.	Reduce Keys
/	Zoom In
:	Reset Graph
0	Fit Values When Selected
1	Filter Static Envelopes
2	Large Autosize Margins
3	Allow Fractional Keyframes
4	Lazy Layout Update
5	Track Layout Time
6	Allow Passthrough Keys
7	Lock Motion Keys in Time
8	Move No Keys Set
9	Track Item Selections
:	
;	
<	Zoom Out X2
=	Set Key Values
>	Zoom In X2
?	
@	Filter Rotation Channels
A	Autofit Selected
B	Backtrack Footprint
C	
D	Remove Channel from Bin
E	
F	Leave Footprint
G	Get Layout Selected
H	Numeric Scale
I	Invert Selected Keys
J	
K	Unlock Selected Keys
L	Lock Selected Keys
M	
N	Numeric Limits
O	
P	Pickup Footprint
Q	
R	
S	
T	Numeric Move
U	Cancel Changes
V	
W	Last Used Filter
X	Clear Channel Bin
Y	
Z	
[Roll Keys Left
\	
]	Roll Keys Right
^	
_	Reduced Keys (Recursive)
`	Insert Overwrites Keys
a	Autofit
b	Bake Selected Curves
c	Copy Selected Curves
d	Display Options
e	
f	Go To Frame
g	Center Graphs
h	Stretch Tool
i	Invert Channel Selection
j	
k	Add to Key Bin
l	Add Layout Selected
m	Zoom Tool
n	Numerics
o	Graph Editor Options
p	
q	Snap Keys to Frames
r	
s	
t	Move Keys Tools
u	
v	Paste Selected Keys
w	Filter Curves
x	Clear Unselected Channels
y	Roll Tool
z	Deselected Keys

{	
}	
~	
F1	Adjust Tension
F2	Adjust Continuity
F3	Adjust Bias
F4	
F5	Collapse/Show All
F6	Collapse/Show Tabs
F7	Collapse/Show Trees
F8	
F9	
F10	
F11	
F12	
→	Move Key Selection Right
←	Move Key Selection Left
↑	Move Selection Up
↓	Move Selection Down
DELETE	Delete Selected Keys
INSERT	
HOME	
END	
PAGE UP	
PAGE DOWN	
SHIFT + F1	
SHIFT + F2	
SHIFT + F3	
SHIFT + F4	
SHIFT + F5	
SHIFT + F6	
SHIFT + F7	
SHIFT + F8	
SHIFT + F9	
SHIFT + F10	
SHIFT + F11	
SHIFT + F12	
CTRL + F1	
CTRL + F2	
CTRL + F3	
CTRL + F4	
CTRL + F5	
CTRL + F6	
CTRL + F7	
CTRL + F8	
CTRL + F9	
CTRL + F10	
CTRL + F11	
CTRL + F12	
OPT + F1	
OPT + F2	
OPT + F3	
OPT + F4	
OPT + F5	
OPT + F6	
OPT + F7	
OPT + F8	
OPT + F9	Edit Keyboard Shortcuts
OPT + F10	Edit Menu Layout
OPT + F11	
OPT + F12	
SHIFT + →	
SHIFT + ←	
SHIFT + ↑	Move Selection Up (add)
SHIFT + ↓	Move Selection Down (add)
CTRL + →	
CTRL + ←	
CTRL + ↑	Select All Curves in Bin
CTRL + ↓	Reset Bin Selection
OPT + →	
OPT + ←	
OPT + ↑	
OPT + ↓	
OPT +	
OPT + A	
OPT + B	
OPT + C	
OPT + D	
OPT + E	
OPT + F	
OPT + G	
OPT + H	
OPT + I	
OPT + J	
OPT + K	
OPT + L	
OPT + M	
OPT + N	
OPT + O	
OPT + P	
OPT + Q	
OPT + R	
OPT + S	
OPT + T	
OPT + U	
OPT + V	
OPT + W	
OPT + X	
OPT + Y	
OPT + Z	