



# Miku Miku Dance (MMD) 9.32 cheat sheet

## Interface

P	Play/Stop
Alt + Enter	Full-screen toggle
Tab	Scroll through models, tabs
Shift + Tab	Scroll backwards through models, tabs
Ctrl + Z	Undo
Ctrl + X	Redo
Ctrl + S	Save

## Bones

A	Select all bones
S	Select unregistered bones
Enter	Register selected bones/camera
H	Register all facials (also discards unregistered bone movements)
Up arrow / Down arrow	Previous/next bone
Z	Move bone (view dependent)
X	Rotate bone (view dependent)
C	Hide/show bones (when manipulating with right-bottom corner widget)
L	Toggle coordinate space
R	Set bone rotation and movement / Multiply of bone frame position-angle
D	Set root bone offset (motherbone/center&IKlegs) (if not working, try to register root bone)
Right click then Right click	(when bone select is disabled) Enable bone select

## Miscellaneous

B	Change background color black/white
V	Make models transparent
Shift + V	Hide all pmx models, but not shadows
Alt + Enter	Full-screen mode
Ctrl + Shift + E	Turn On/Off effects (MME)

Right click then Right click	(in 3D space or FMP) Switch from camera to the model
Right click then Right click	(in grey lower area of interface) Switch from model to the camera
Shift + G	Self shadow shadow map
]	Interpolation curve automatic setting ON/OFF

## Keyframes (Diamonds):

Left arrow / Right arrow	Go to previous/next frame
Ctrl + Left arrow / Right arrow	Go to previous/next registered keyframe
G	Go to the first frame
I	Insert bone/camera frame
K	Delete bone/camera frame
U	Insert facial/light frame
J	Delete facial/light frame

## Select keyframe(s)

Shift + Left click + Move the mouse	Expand selection
Shift + Ctrl + Left click + Move the mouse	Shrink selection
Ctrl + C	Copy selected frames
Ctrl + V	Paste frames
Del	Erase highlighted diamond, or group of diamonds.
F	Paste keyframe values to a different bone (movement, rotation values)
R	Set bone rotation and movement / Multiply of bone frame position-angle (first select keyframes, to be multiplied)

## Camera

Right click + Move the mouse	Rotate
Shift + Right click + Move the mouse or Middle click +	Move

Move the mouse  
or Shift + Middle  
click + Move the  
mouse or Ctrl +  
Middle click +  
Move the mouse

Ctrl + Right click + Move the mouse	Zoom smooth
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Wheel up and wheel down	Zoom stepped
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## Default camera views

Num 0	Camera view (from model), or bottom view (from camera)
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Num 2	Front view
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Num 8	Back view
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Num 4	Right view
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Num 6	Left view
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Num 5	Top view
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Num 1	Bottom view
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Sources: kiwigem @ Deviantart, Larnmmd, Reddit

*Last modification: 20.06.2024 23:59:00*

*More information:* [defkey.com/ro/miku-miku-dance-mmd-9-32-shortcuts](https://defkey.com/ro/miku-miku-dance-mmd-9-32-shortcuts)

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