

Comparison of AutoCAD and CADian

| Sl.No. | Command | AutoCAD | CADian | REMARKS |
|--------|---------------|---|---|--|
| 1 | | | | |
| | F1 | Online help | Help menu | |
| | F2 | Command window on/off | CADian Prompt History | |
| | F3 | osnap on/off | Command Prompt on off | Once the osnap is set the next time it doesn't show the dialogue box |
| | F4 | tablet on/off | Tablet | Tablet initialization failed |
| | F5 | Isoplane Left/Right/Top | Isoplane Left/Right/Top | |
| | F6 | Co-ordinate on/off | Co-ordinate | |
| | F7 | Grid on/off | Grid on/off | |
| | F8 | Orthomode on/off | orthomode on/off | |
| | F9 | Snap on/off | Snap on/off | |
| | F10 | Polar tracking on/off | WNDLSTAT on/off | |
| | F11 | Objects Snap Tracking on/off | -----Nothing is set for this key----- | osnap shortcut can be given for this key |
| 2 | LINE | draws line | draws line | |
| 3 | UNDO | undo's the previous command/operation | undo's the previous command/operation | |
| 4 | CLOSE | to close the current drawing | to close the current drawing | |
| 5 | CIRCLE | 2P/3P/TTR/CENTER | 2P/3P/TTR/ ARC/MULTIPLE /CENTER | |
| 6 | ERASE | erases selected objects, without any trail | erases selected objects, with white trails left out | |
| 7 | OOPS | restores erased objects | restores erased objects | |
| 8 | NEW | creates a new dwg. In ENGLISH/METRIC | creates new dwg. Without any Prompting | |
| 9 | SAVE | R12 onwards. | b/w R2.5 and R2000 both dwg and dxf | |
| 10 | OPEN | files of type: dwg, dws ,dxf, dwt | files of type: dwg, dxf | |
| 11 | CLOSE | prompts to save the dwg.before closing | prompts to save the dwg. Before closing | |

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| 12 | QUIT/EXIT | exits the program, without any prompt to save the file | prompts to save the file, before shutting the prog. | |
| 13 | ARC | start/next/end point | start/next/end point | in cadian after selecting an arc it shows you four grips with the origin of an arc. |
| 14 | POLYGON | no of sides | Multiple/width of line/ no of sides | many options in cadian |
| 15 | ELLIPSE | Axis end point and dist of other axis | ARC option with ellipse | Very good option in Cadian and it shows the grips of all vertices. |
| 16 | MOVE | moves an object from its position | moves an object from its position | |
| 17 | COPY | copies the object | copies the object | |
| 18 | ARRAY | dialog box with different options | manual entry for the various options | |
| 19 | BREAK | first and secon point of break object | first and secon point of break object | surprisingly it shows all grips in ACAD and not in CADian while selecting an object. |
| 20 | MIRROR | creates a mirrored object | creates a mirrored object | same as AUTO CAD |
| 21 | OFFSET | generates an offset of the selected object | generates an offset of the selected object | same as AUTO CAD |
| 22 | SCALE | scale factor/ reference | scale factor/ base scale | doesn't show centre as a base point in Cadian |
| 23 | ROTATE | rotates the obj about base point/reference | rotates the obj about base point/reference | doesn't show centre as a base point in Cadian |
| 24 | SOLID | the solid is seen only after the 4th point. | the solid is seen, from the second point onwards | very limited options |
| 25 | DONUT | specify inside/outside dia. | specify inside/outside dia. | same as AUTO CAD |
| 26 | LIMITS | lower left/upper right | lower left/upper right | same as AUTO CAD |
| 27 | OSNAP | dialog box with different options | manual entry for the various options | same as AUTO CAD |
| 28 | REDO | redo can be done only once, after a previous undo | unlimited redo's | very good in cadian |
| 29 | TEXTSCR | AutoCAD Text Window | CADian Prompt History | same as AUTO CAD |
| 30 | GRAPHSCR | Enters in work space | Enters in work space | same as AUTO CAD |
| 31 | APERTURE | Object Snap Target Height | selection area for Entity Snap (1 - 50) pixels | same as AUTO CAD |
| 32 | ORTHO | on/off | Toggle is an added feature | Toggles in between commmand prompt and workarea |

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| 33 | FILL | On/Off | Toggle is an added feature | |
| 34 | DRAGMODE | on/off/auto | on/off/auto | |
| 35 | SNAP | snap type option is present | snap type option is not to be found | |
| 36 | ISOPLANE | Left/Top/Right | Left/Top/Right | same as AUTO CAD |
| 37 | GRID | On/Off/Aspect/snap | On/Off/Aspect/Snap | same as AUTO CAD |
| 38 | VIEWRES | 1-20000 | 1-20000 | same as AUTO CAD |
| 39 | TEXT | Mtext option | mtext option | |
| 40 | STYLE | dialogue box comes to set options | dialogue box comes to set options | same as AUTO CAD |
| 41 | SPELL | checks any object | checks only text | very good in CADian |
| 42 | TRIM | Eextends by shif select | doesn't extend by shift select option | need to improve in cadian |
| 43 | EXTEND | trims by shift select | doesn't trim by shift select option | need to improve in cadian |
| 44 | STRETCH | by crossing wndow option | by crossing wndow option | same as AUTO CAD |
| 45 | VIEW | dialogue box comes to set options | no dialogue box | |
| 46 | COLOR | bylayer/byblock with color pallete | only by layer | good in AUTO CAD |
| 47 | LINETYPE | loads in one dialogue box | loads in Cadian explorer | Good in cadian |
| 48 | LWEIGHT | loads in one dialogue box | No option. does it in CADian explorer | |
| 49 | MTEXT | sepate command | same in text | less efforts in cadian |
| 50 | ZOOM | very easy and handy options | complicated at first use | unnecessary options for fixed zooms in cadian |
| 51 | PAN | very easy and handy options | complicated at first use | unnecessary options for fixed pans in cadian |
| 52 | REGEN | not necessary after every erase | required after every erase | need to improve in cadian |
| 53 | REGENAUTO | On/Off | On/Off/toggle | needs to regen even after the auto mode is on |
| 54 | BLIPMODE | Temporary marks + sign in selection/drawing the entity | Temporary marks + sign in selection/drawing the entity | same as AUTO CAD |
| 55 | REDRAW | redraws | redraws | same as AUTO CAD |

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| 56 | FIND | gives dialogue box to find | no option on command prompt | |
| 57 | DSVIEWER | gives ariel view | No option in cadian | needs to improve in cadian |
| 58 | BHATCH | dialogue box comes to set options | dialogue box comes to set options | Cadian gives an option to surf in Cadian explorer |
| 59 | HATCHEDIT | dialogue box comes to set options | No command | sets on right click and can be editd in properties |
| 60 | EXPLODE | explodes selected entities | explodes selected entities | doesn't select ellipse in cadian good thing!!! |
| 61 | UNITS | sets in a dialogue box | sets on command prompt | needs to improve in cadian |
| 62 | PLINE | with normal optins | follow is a new option in cadian | good in cadian |
| 63 | PEDIT | with normal optins | normal options | same as AUTO CAD |
| 64 | FILLET | stting is on command prompt | gives dialogue box to set options | good in cadian!!! |
| 65 | CHAMFER | stting is on command prompt | gives dialogue box to set options | good in cadian!!! |
| 66 | RECTANGLE | with normal options | with normal options | same as AUTO CAD |
| 67 | TRACE | shows trace | don't show the trace | |
| 68 | SKETCH | sketch mode | sketch mode | same as AUTO CAD |
| 69 | POINT | marks a point | marka a point | same as AUTO CAD |
| 70 | DDPTYPE | gives dialogue box to find | gives dialogue box to set options | good in cadian |
| 71 | SELECT | selects entities by many options | selects entities by many options | |
| 72 | ABOUT | | | |
| 73 | LAYER | sepate command | included in cadian explorer and on command prompt | in cadian it should call the explorer |
| 74 | PROPERTIES | on right click and on command prompt | on right click and on command prompt | cadian don't give the option of category |
| 75 | RENAME | gives dialogue box to find | on command prompt | needs to improve in cadian |
| 76 | QSELECT | gives option to select entities by different options | no option | needs to improve in cadian |
| 77 | MATCHPROP | selects on command prompt | selects on command prompt | |

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| 78 | HATCH | options on command prompt | options on command prompt | same as AUTO CAD |
| 79 | CHANGE | changes the propert and the entity option | changes the propert and the entity option | same as AUTO CAD |
| 80 | ID | gives coordinate | gives coordinate | same as AUTO CAD |
| 81 | LIST | gives proerties | gives proerties | same as AUTO CAD |
| 82 | DIST | gives distance | gives diatance | same as AUTO CAD |
| 83 | AREA | gives area | gives area | same as AUTO CAD |
| 84 | MLINE | | not supported by cadian | needs to improve in cadian |
| 85 | MLSTYLE | | not supported by cadian | |
| 86 | MLEDIT | | not supported by cadian | |
| 87 | SPLINE | gives spline | gives spline | same as AUTO CAD |
| 88 | SPLINEDIT | | not supported by cadian | needs to improve in cadian |
| 89 | LENGTHEN | command line options | command line options | same as AUTO CAD |
| 90 | DIMLINEAR | linear dimensions | linear dimensions | same as AUTO CAD |
| 91 | DIMALIGNED | command prompt options | command prompt options | same as AUTO CAD |
| 92 | DIMRADIUS | command prompt options | command prompt options | same as AUTO CAD |
| 93 | DIMDIAMETER | command prompt options | command prompt options | same as AUTO CAD |
| 94 | DIMCENTER | command prompt options | command prompt options | same as AUTO CAD |
| 95 | DIMANGULAR | command prompt options | command prompt options | same as AUTO CAD |
| 96 | DIMBASELINE | command prompt options | command prompt options | same as AUTO CAD |
| 97 | DIMCONTINUE | command prompt options | command prompt options | same as AUTO CAD |
| 98 | DIMORDINATE | command prompt options | command prompt options | same as AUTO CAD |
| 99 | LEADER | command prompt options | command prompt options | same as AUTO CAD |
| 100 | TOLERANCE | gives a dialogue box | gives a dialogue box | good in cadian |

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| 101 | QDIM | supports well | doesn't support | good in ACAD needs to be improved |
| 102 | QLEADER | give leaders | doesn't support | |
| 103 | XLINE | gives xline | gives xline | same as AUTO CAD |
| 104 | RAY | gives ray | gives ray | same as AUTO CAD |
| 105 | DIMSTYLE | gives dimention style | no option of dialogue box | but gives style dialogue box in style command |
| 106 | FILTER | gives by dialogue box | doesn't get filter dialogue box | needs to improve in cadian |
| 107 | GROUP | groups the entity through dialogue box | groups by dialogue box | good in cadian |
| 108 | CAL | on command prompt | gives windows application | good in cadian |
| 109 | BLOCK | gives options by dialogue box | gives option by command prompt | throws to cadian explorer for block |
| 110 | INSERT | automatic insert dialogue box. | dialogue box is on demand | |
| 111 | WBLOCK | write block | saves block | serves the same purpose |
| 112 | BASE | x,y,z coordinates | x,y,z coordinates | same as AUTO CAD |
| 113 | ATTDEF | defines the attribute defination | defines the attribute defination | easy in AUTOCAD need to reduce the complications in cadian |
| 114 | ATTDISP | displayes attributes | displayes attributes | same as AUTO CAD |
| 115 | ATTEDIT | edits attributes | edit attributes | serves the same purpose |
| 116 | MINsert | muliple block insert | muliple block insert | good in cadian |
| 117 | DIVIDE | inserts block | inserts block | serves the same purpose |
| 118 | MEASURE | measures in the limit | measures in the limit but don't give reply properly | but serves the same purpose |
| 119 | MSLIDE | gives prompt to select the sld file | gives prompt to select the sld file | serves the same purpose |
| 120 | VSLIDE | views slide | views slide | serves the same purpose |
| 121 | SCRIPT | runs the script | runs the script | serves the same purpose |
| 122 | DELAY | delays by milliseconds | delayes by milliseconds | serves the same purpose |

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| 123 | RSCRIPT | it is to be used in script | it is to be used in script | serves the same purpose |
| 124 | RESUME | it is to be used in script | it is to be used in script | serves the same purpose |
| 125 | ATTEXT | gives dialogue box to find | gives command prompt | serves the same purpose but needs to be improved in cadian |
| 126 | COPYCLIP | copies object | copies object | serves the same purpose |
| 127 | COPYHIST | gives the history of commands | gives the history of command | serves the same purpose |
| 128 | COPYLINK | copies the link | don't supported | |
| 129 | CUTCLIP | cuts objects | cuts objects | serves the same purpose |
| 130 | COPYBASE | copies basepoint | no supported | |
| 131 | PASTECLIP | pastes the object | pastes the object | serves the same purpose |
| 132 | PASTEORIG | ----- | ----- | ----- |
| 133 | PASTEBLOCK | copies the whole dwg | not supported by cadian | ----- |
| 134 | PASTESPEC | pastes the object with metafile options | pastes the object with metafile options | serves the same purpose |
| 135 | INSERTOBJ | inserts object of other application also | inserts object of other application also | serves the same purpose |
| 136 | OLELINKS | Object linking and embedding | Object linking and embedding | serves the same purpose |
| 137 | OLESCALE | works with ole object | doesn't support | with out the command cadian serves the purpose |
| 138 | XREF | works with dialogue box | works on command prompt | needs to improve in cadian |
| 139 | XCLIP | works with xref object and gives prompt for invalid object | works up to the crossing window | |
| 140 | XPLODE | Explodes the object | explodes the object | serves the same purpose |
| | | | | |
| | 3-D COMMANDS.... | | | |
| | | | | |
| 141 | 3DFACE | works to fix a face of a 3d Object | works to fix a face of a 3d Object | serves the same purpose |

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| 142 | HIDE | hides background frame | hides background frame | serves the same purpose |
| 143 | RULESURF | creates surface | creates surface | serves the same purpose |
| 144 | TABSURF | creates surface | asks for extrude and doesn't work further | needs to improve in cadian |
| 145 | REVSURF | creates surface model | creates surface model | serves same purpose |
| 146 | EDGESURF | creates surface for 4 lines | creates surface for 4 lines | serves the same purpose |
| 147 | DDVPOINT | fixes viewpoint by dialogue box | fixes viewpoint by dialogue box | serves the same purpose |
| 148 | VPOINT | Doesn't support in ACAD | supports in Cadian | very good in cadian |
| 149 | VPORTS | gives View ports | gives rotation option | very good in cadian |
| 150 | BOX | creates the object | creates the object | same as AUTO CAD |
| 151 | WEDGE | creates the object | creates the object | same as AUTO CAD |
| 152 | CYLINDER | creates the object | creates the object | same as AUTO CAD |
| 153 | CONE | creates the object | creates the object | same as AUTO CAD |
| 154 | SPHERE | creates the object | creates the object | same as AUTO CAD |
| 155 | TORUS | creates the object | creates the object | same as AUTO CAD |
| 156 | EXTRUDE | Extrudes flat surface to a solid model | doesn't support properly | same as AUTO CAD |
| 157 | REVOLVE | creates 3d model for the selected entities | doesn't support properly | same as AUTO CAD |
| 158 | UNION | unions two solid objects | doesn't support properly | same as AUTO CAD |
| 159 | SUBTRACT | subtracts the models | | |
| 160 | INTERSECT | intersects two models | | |
| 161 | INTERFERE | interferes the two models | | |
| 162 | UCS | many options to set ucs | many options to set ucs | serves the same purpose |
| 163 | UCSICON | ucs options and on/Off option is present | ucs options and on/Off option is present | serves the same purpose |
| 164 | UCSMAN | Differs between world and user coordinate systems | No option found | |

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| 165 | PLAN | makes the view in plan | makes the view in plan | serves the same purpose |
| 166 | 3DARRAY | makes 3d array | makes 3d array but only with the restricted models | serves the same purpose |
| 167 | MIRROR3D | mirros the object I 3d mode | mirros the object I 3d mode | serves the same purpose |
| 168 | ROTATE3D | rotates 3d | rotates 3d | serves the same purpose |
| 169 | ALIGN | Align the entities | Align the entities | serves the same purpose |
| 170 | SLICE | slices the entity | doesn't select the object | command exists in the application only need to be rectified |
| 171 | FILLET | fillets with 3d entities | entitis are not get selected | command exists in the application only need to be rectified |
| 172 | CHAMFER | fillets with 3d entities | entitis are not get selected | command exists in the application only need to be rectified |
| 173 | DVIEW | camera option for entities to revolve | camera option for entities to revolve | in autoCAD the dialogue box doesn't come to revolve |
| 174 | SOLVIEW | takes to the layout | not yet supported | No layout mode in cadian |
| 175 | SOLDRAW | UCS/ortho/auxialary options | not yet supported | No layout mode in cadian |
| 176 | SOLPROF | only supported in layout | not yet supported | No layout mode in cadian |
| 177 | SOLIDEDIT | edits solids | edits solids | serves the same purpose but with selected entities |
| 178 | 3DORBIT | rotates in 3d | not yet supported | RTROT is the command in cadian |
| 179 | CAMERA | gives view for camera | not yet supported | |
| 180 | SHADEMODE | gives shade mode | not yet supported | shade is the command for the 256 color and with many options |
| 181 | RENDER | slow in ACAD | fast in cadian | rendering is very fast due to acurender |
| 182 | LIGHT | gives lighting option | gives lighting option | serves same purpose |
| 183 | MATLIB | gives material library | not yet supported | materials can be applied in |
| 184 | RMAT | gives material option | gives material option | serves the same purpose |
| 185 | RPREF | gives render settings | gives render settings | serves the same purpose |

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| 186 | SAVEIMG | saves image | not yet supported | |
| 187 | REPLAY | gives window to select the options | not yet supported | |
| 188 | SETUV | maps the object with many options in a dialogue box | not yet supported | not much useful command |
| 189 | ISLIB | | not yet supported | |
| 190 | FOG | | not yet supported | |
| 191 | BACKGROUND | sets the background | gives options to place background | |
| 192 | IMAGE | gives image manager | not supported by the same name but that can be alias to the parent command | iemanager' is the command in cadian for the same purpose |
| 193 | IMAGEATTACH | attaches image | can be attached by iemage | but can be done very well in cadian image enabler |
| 194 | IMAGEADJUST | adjusts the attached image | can be done by ieadjust | but can be done very well in cadian image enabler |
| 195 | IMAGECLIP | clips the image | not yet supported | but can be done very well in cadian image enabler |
| 196 | IMAGEFRAME | creates frame for image | not yet supported | but can be done very well in cadian image enabler |
| 197 | IMAGEQUALITY | quality can be adjusted | not yet supported | but can be done very well in cadian image enabler |
| 198 | TRANSPARENC | sets the transparency | not yet supported | but can be done very well in cadian image enabler |
| 199 | DRAWORDER | draws the entity in a given order | draws the entity in a given order | serves the purpose |
| 200 | EXPORT | Exports to sat,dxf,wmf,sti,eps,dxx | exports to 2.5 version to 2000 and wmf,bitmap,dxf | serves purpose at some extent |
| 201 | 3DSOUT | | not yet supported | |
| 202 | ACISOUT | saves in different formats | saves ACIS entities | |
| 203 | BMPOUT | saves bmp file | saves bmp file | |
| 204 | PSOUT | creates post script file | not yet supported | |
| 205 | STLOUT | creates binary stl file | not yet supported | |
| 206 | WMFOUT | creates wmf file | saves in wmf format | |

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| 207 | IMPORT | imports the other drawings as sat,3ds,sat | no import but opens supported files | |
| 208 | 3DSIN | 3dstudio file import | not yet supported | needs to be improve in cadian |
| 209 | WMFIN | imports wmf, clp | not yet supported | but imports only dxf needs to be improve in cadian |
| 210 | PSFILL | creates pat file | not yet supported | |
| 211 | DXBIN | selects dxb file | not yet supported | |
| 212 | DCB | supports very well for Database connectivity | not yet supported | Database connectivity is not yets supported in CADian needs to be improved for GIS segment. |