

Printing the case

Print area

The required print area is 240mm x 210mm.

Used Material

PLA

Support enforcers

I recommend using support enforcers only for the parts “Nixie Calculator IN-12 Display Left V2.stl” and “Nixie Calculator IN-12 Display Right V2.stl” and **only in the area marked in red.**



Remaining material due to overhangs

Parts with holes for square nuts may have material residues that should be removed before inserting the nut.



Sanding

I'm not a 3D printing expert at all, this is just how it works for me. To get a nice surface finish, I use 80, 120, and 180 grit sandpaper for regular sanding and 240 grit for wet sanding as the final step.

Side panel options for IN-16, IN-17 and B-5870 versions

There are two options for the side panels: if you prefer to see the entire nixie tubes behind the acrylic, print the regular side panels. If you prefer to limit the view essentially to the digits, print the "for Frame" side panels and the corresponding frame. I recommend the frame option especially for the IN-17 display.

Parts Table

Case IN-12 Version	
Part	Comment
Nixie Calculator IN-12 Back Shield.stl	
Nixie Calculator IN-12 Bottom.stl	
Nixie Calculator IN-12 Display Left V2.stl	Partial use of support enforcers recommended
Nixie Calculator IN-12 Display Right V2.stl	Partial use of support enforcers recommended
Nixie Calculator IN-12 Front Panel.stl	
Nixie Calculator IN-12 LED Board Spacers.stl	
Nixie Calculator IN-12 Left.stl	
Nixie Calculator IN-12 Right.stl	
Nixie Calculator IN-12 Top.stl	
Nixie Calculator IN-12 Tube Holder Part 1.stl	
Nixie Calculator IN-12 Tube Holder Part 2.stl	
Nixie Calculator IN-12 Union Tube V2.stl	
Nixie Calculator IN-12A Display Front 3mm Left V2.stl	If using 3mm neon bulbs as decimal point
Nixie Calculator IN-12A Display Front 3mm Right V2.stl	If using 3mm neon bulbs as decimal point
Nixie Calculator IN-12A Display Gap Cover 3mm.stl	If using 3mm neon bulbs as decimal point
Nixie Calculator IN-12A Display Front 4mm Left V2.stl	If using 4mm neon bulbs as decimal point
Nixie Calculator IN-12A Display Front 4mm Right V2.stl	If using 4mm neon bulbs as decimal point
Nixie Calculator IN-12A Display Gap Cover 4mm.stl	If using 4mm neon bulbs as decimal point
Nixie Calculator IN-12B Display Front Left V2.stl	if using IN-12B decimal point
Nixie Calculator IN-12B Display Front Right V2.stl	If using IN-12B decimal point
Nixie Calculator IN-12B Display Gap Cover.stl	If using IN-12B decimal point
Nixie Calculator Front.stl	
Nixie Calculator Keyboard Cover.stl	

Case IN-16 Version	
Part	Comment
Nixie Calculator Back Shield.stl	
Nixie Calculator Bottom.stl	
Nixie Calculator Front.stl	
Nixie Calculator Keyboard Cover.stl	
Nixie Calculator IN-16 Left.stl	Regular side panel
Nixie Calculator IN-16 Right.stl	Regular side panel
Nixie Calculator IN-16 Left for Frame.stl	Side panel for the frame option
Nixie Calculator IN-16 Right for Frame.stl	Side panel for the frame option
Nixie Calculator IN-16 Display Frame	Frame for the frame option (black recommended)
Nixie Calculator Top.stl	
Nixie Calculator LED Board Spacers.stl	for underlighting only

Case IN-17 Version	
Part	Comment
Nixie Calculator Back Shield.stl	
Nixie Calculator Bottom.stl	
Nixie Calculator Front.stl	
Nixie Calculator Keyboard Cover.stl	
Nixie Calculator IN-17 Left.stl	Regular side panel
Nixie Calculator IN-17 Right.stl	Regular side panel
Nixie Calculator IN-17 Left for Frame	Side panel for the frame option
Nixie Calculator IN-17 Right for Frame	Side panel for the frame option
Nixie Calculator IN-17 Display Frame	Frame for the frame option (black recommended)
Nixie Calculator Top.stl	

Case B-5870 Version	
Part	Comment
Nixie Calculator Back Shield.stl	
Nixie Calculator Bottom.stl	
Nixie Calculator Front.stl	
Nixie Calculator Keyboard Cover.stl	
Nixie Calculator IN-16 Left.stl	Regular side panel
Nixie Calculator IN-16 Right.stl	Regular side panel
Nixie Calculator IN-16 Left for Frame	Side panel for the frame option
Nixie Calculator IN-16 Right for Frame	Side panel for the frame option
Nixie Calculator B-5870 Display Frame	Frame for the frame option (black recommended)
Nixie Calculator Top.stl	
Nixie Calculator B-5870 Socket Cover.stl	Only if using regular side panels (black recommended)

Case 7-Seg LED Version	
Part	Comment
Nixie Calculator Back Shield.stl	
Nixie Calculator Bottom.stl	
Nixie Calculator Front.stl	
Nixie Calculator Keyboard Cover.stl	
Nixie Calculator 7segLED Left.stl	
Nixie Calculator 7segLED Right.stl	
Nixie Calculator Top.stl	

Case Peripherals	
Part	Comment
Nixie Peripherals RJ45 Part 1.stl	
Nixie Peripherals RJ45 Part 2.stl	
Nixie Peripherals RJ45 Part 3.stl	