

# Chimera7 Pro V2 O4 — Screw Size Gauge

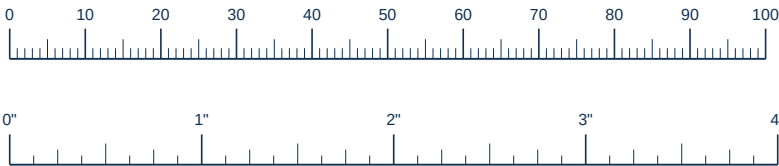
## How to use this sheet

**IMPORTANT: Print this page at 100% / Actual Size. Do NOT use "Fit to page" or "Shrink oversized pages" — either setting will rescale the drawings and every measurement below will be wrong.**

Before trusting any screw against this sheet, check the ruler below against a real ruler or tape measure. If the printed 100mm mark doesn't line up with an actual 100mm, reprint at Actual Size.

Diameter circles: lay a screw's shaft flat across a circle — it should just touch both sides. Length gauges: line up the underside of the screw head with the left dimension tick, and the tip with the right tick — that gap is the screw's rated length ("L"), which is how iFlight's hardware list specifies size (not overall length including the head).

## Calibration ruler — verify before use



## Thread / shaft diameter reference

Lay the screw's shank flat across a circle to confirm its thread size.



## What's on the next pages

Page 2: every screw length used in the Chimera7 Pro V2 O4 frame kit, grouped by thread size (M2, M3, M5), drawn at actual size with the length gauge under each one. Page 3: the aluminum standoffs and nuts. Item numbers in parentheses match the earlier assembly guide.

# Screw Length Gauges — M2 & M3

## M2 screws

### M2 x 5 (#23)

Hex socket head  
  
L = 5mm

### M2 x 6 (#31)

Hex socket head - O4 camera side panels  
  
L = 6mm

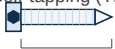
### M2 x 8 (#24)

Wash (flanged) head  
  
L = 8mm

### M2 x 8 (#25)

Self-tapping (TPU mounts)  
  
L = 8mm

### M2 x 12 (#27)

Self-tapping (TPU mounts)  
  
L = 12mm

## M3 screws

### M3 x 6 (#28)

Hex socket head  
  
L = 6mm

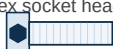
### M3 x 8 (#21)

Hex socket head  
  
L = 8mm

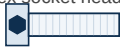
### M3 x 8 (#29)

Wash (flanged) head  
  
L = 8mm

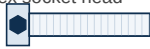
### M3 x 11 (#32)

Hex socket head - motor screws  
  
L = 11mm

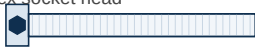
### M3 x 12 (#22)

Hex socket head  
  
L = 12mm

### M3 x 16 (#26)

Hex socket head  
  
L = 16mm

### M3 x 30 (#30)

Hex socket head  
  
L = 30mm

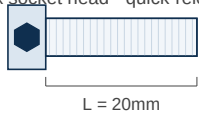
# Screw Length Gauges — M5 & Standoffs

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## M5 hardware (arm pivot)

### M5 x 20

Hex socket head - quick-release arm pivot bolt



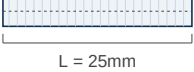
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## Aluminum standoffs (frame stack spacers)

Outer diameters shown are typical estimates for this style of standoff; length and thread size are accurate from the parts list.

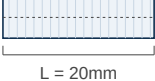
### M2 x 25 standoff (#20)

M2 thread, ~4mm OD



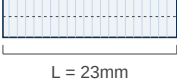
### M3 x 20 standoff (#19)

M3 thread, ~5.5mm OD



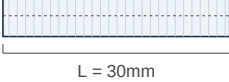
### M3 x 23 standoff (#17)

M3 thread, ~5.5mm OD



### M3 x 30 standoff (#18)

M3 thread, ~5.5mm OD



# Screw Size Gauge — Nuts

## Nuts

Left shape = face view (across-flats width). Right block = side view (thickness).

### M1.6 nut

Spare - matches O3-version side panel screws



AF 3.2mmH 1.2mm

### M5 lock nut

Arm pivot - nylon insert shown in tan



AF 8mm

H 5mm

### M5 flange nut

Arm pivot



AF 8mm

H 5mm