



Storage for 4 Nikon EN-EL15c



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Summary

Storage box for 4 Nikon Batteries of type EN-EL15

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Motivation

I have 4 batteries of type EN-EL15c for my Nikon camera. Up to now they tended to move around in my backpack, so that I had to look around for them. Additionally, at the end of the day, it was not clear which batteries were empty and which remained full.

So I designed a box for the batteries that safely stored them and which has an indicator for full or empty/used. I liked the mechanism how the battery is stored in the camera, with a spring pushing it out when pushing the slider away. So I used this idea in my box as well.

I first thought about some complicated mechanisms for the slider fixing the battery in the compartment. In the end I opted for a simple disk that can be turned in an "open" and two "closed" positions. That way, the battery can be taken out by turning to the "open" position. The "closed" positions can be used to indicate if the battery is full or discharged.

The wheel is designed to stay locked by the spring pressure from the battery. So, when taking out the battery, it helps to push down on the battery before turning the locking disk.

To fix the case within the backpack, I added some options to use cable ties and dovetails to fix any future holding construction.

Filament used

I printed the box in PLA, but I guess, I could have used PETG as well.

Additional parts

- 4 x Spring 20mm length and 8mm inner diameter
- 4 x Screw M3 x 20mm
- 4 x Nut M3
- Cable ties max 5mm wide or other items to fix the box

Supports

The box does not need supports and can be printed in the orientation provided.

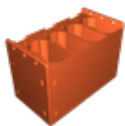
The locking wheel needs support on build plate.

Model files

nikonakkuhalterlock10.stl



nikonakkuhalter10.stl



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