Table S1: Estimated costs for a low-budget version and an optimal equipment for false colour photography in bee view.

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| **Low cost equipment for false colour photography** | **Price** **EUR** | **Optimal equipment for false colour photography** | **Price** **EUR** |
| Used camera body with sensitivity in the ultraviolet range of wavelength | <100 | New camera body with sensitivity in the ultraviolet range of wavelength | >1000 |
| Removal of the UV-and IR-protection | 250 | Removal of the UV-and IR-protection | 250 |
| Tripod | 30 | Light-weight tripod | 150 |
| UV-transmitting lens made of plastic | 50 | Quartz glass lens | >1000 |
| UV-transmitting filter for UV-photos | 100 | UV-transmitting filter for UV-photos | 100 |
| UV- and IR-cut filter for normal photos to be split into the Blue- Green- and Red-channel | 100 | UV- and IR-cut filter for normal photos for comparison | 100 |
| White standard Styrofoam  | <1 | White standard Teflon | 200 |
| Using split into channels from colour photo | 0 | Blue transmitting filter for Blue-photos | 100 |
| Using split into channels from colour photo | 0 | Green transmitting filter for Green-photos | 100 |
| Waving of taking photos in the lab | 0 | UV-torch  | 150 |
| Waving of transport in a box | 0 | Transport box | 100 |
| Camera-lens combination without lens mount adapter | 0 | Lens mount adapter depending on camera-lens combination. Cannot have glass elements for UV transmission! | >20 |
| imageJ | 0 | Photoshop subscription | ~12/Month |