

NYBG Herbarium Imaging Equipment Specifications

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Photography Equipment:

1. Camera: full frame sensor, ≥ 20 Mp, RAW file format, software to operate camera from computer.
 - Nikon D800E Digital SLR Camera (Body Only) = Full Frame, 36 Mp
 - Nikon EH-5B AC Adapter
 - Nikon EP-5B Power Supply Connector
 - Nikon Camera Control Pro 2.0 Software
2. Lens: Macro, 50 mm
 - Sigma Normal 50 mm f/2.8 EX DG Macro Autofocus Lens for Nikon AF
3. Lighting
 - MK Digital Direct ORTech Photo-eBox Bio = "NYBG Modified" version
Official NYBG 14 x 19 Box = Part Number 777000
Continuous 8 x 28 watts 6500K fluorescent light
Continuous 1.5 foot $\frac{1}{2}$ watt 5500 LED light
B&H product page: http://www.bhphotovideo.com/c/product/885294-REG/mk_digital_direct_777000_photo_ebox_bio_plus.html

Marketing Department, MK Digital Direct (619) 661-0628
www.mkdigitaldirect.com
4. Copystand : minimum 40" column, can support weight of DSLR camera, positions the camera sensor over the top hole in the Photo-eBox
 - Kaiser Copy Stand RS 1 with RA-1 Arm, 40" Counterbalanced Column, 18x20" baseboard
 - Manfrotto 3/8" + 1/4" Adapter Spigot
 - Manfrotto 066 Double Female Stud for Super Clamp
5. Laptop or Desktop computer
 - Recommended minimum: i5 processor, 4GB RAM, 500GB hard drive
 - If laptop, recommend 17.3" display, USB mouse
6. Barcode scanner: to rename images with specimen barcode number; one with a stand may be preferred
 - Wasp Bar code reader - WCS3905 CCD Scanner with 8ft USB Cable. (Note that this barcode reader may not work with all barcodes. The Wasp 3900 has just LED lights, instead of a fine laser that some barcode labels require, e.g., CODABAR Mod 10.)
7. Digital Transitions ColorGauge Nano Target: small, to be captured in every image to ensure consistent color balance and exposure
8. Ruler or scale bar
9. Black background: non-reflective, durable
 - Savage Velvetine Paper Background, Midnight Black
10. Black Gaffer Tape: to secure background paper, color checker, and ruler.
11. Adobe Photoshop Lightroom Software: for image post-processing, RAW conversion, image management
12. External Drive: (optional) for image storage/transport

NYBG Herbarium Equipment

Nikon D800E Digital SLR Camera (Body Only)	\$3,296.95
Sigma Normal 50mm f/2.8 EX DG Macro Autofocus Lens for Nikon AF	\$329.00
Nikon EH-5b AC Adapter	\$79.95
Nikon EP-5B Power Supply Connector	\$49.95
Nikon Camera Control Pro 2.0 Software	\$139.00
MK Digital Direct ORTech Photo-eBox Bio – Part# 777000 (shipping not included)	\$1,536.50
Kaiser Copy Stand RS 1 with RA-1 Arm, 40" Column and 18 x 20" Baseboard	\$575.74
Manfrotto 3/8" + 1/4" Adapter Spigot	\$5.59
Manfrotto 066 Double Female Stud for Super Clamp	\$4.50
Laptop computer	\$900.00
Wasp WCS3905 CCD Scanner with 8ft USB cable	\$88.19
ColorGauge Nano Target	\$195.00
Savage Velvetine Paper Background - 52"x20' - Midnight Black	\$39.95
Rosco GaffTac Gaffer Tape – Black (2" x 165')	\$19.95
Adobe Photoshop Lightroom 5 Software for Mac and Windows	\$139.00
External hard drive (optional)	\$150.00
Total	\$7549.27

