

- Devices
 - BFS-U3-32S4C-C
<https://www.ptgrey.com/blackfly-s-32-mp-color-usb3-vision-sony-imx252>
 - LM5JC1M
http://www.kowa-optical.co.jp/fa/e/products/wide_megapixel.html

- Setup of devices
 - F-number of each lens was manually set to F16.
 - Automatic control of white balance and gain was turned off.
 - Exposure time was manually set.
 - Demosaicing method is “Directional.”
<https://www.ptgrey.com/KB/10141>
 - Distance between cameras was manually set to capture all leaves in all cameras

- Images
 - original images: RGB images from each camera
 - plant images: images containing one plant
 - label images: images containing manually assigned labels for leaves in plant images
 - images for calibration: images containing a chessboard and a color checker

- Naming rules of images
 - Parameters
 - ◇ AA: camera ID from 00 to 02
 - ◇ BB: plant ID from 00 to 04
 - ◇ CCC: day ID from 000 to 009
 - ◇ DD: time ID from 00 to 05
 - ◇ EEE: capture number

Note that one day starts at 3 p.m. and ends at 3 p.m. next day, and images are captured every 4 hours in one day.
 - File names
 - ◇ original images: rgb_AA_CCC_DD.png
 - ◇ plant images: rgb_AA_BB_CCC_DD.png
 - ◇ label images: label_AA_BB_CCC_DD.png
 - ◇ images for calibration : AA_EEE.png for geometric camera calibration and AA.png for color calibration if necessary

- Leaf colors in label images

Leaf colors in plant images are common and determined from the oldest as follows.

From oldest	R	G	B
1	0	0	255
2	0	255	0
3	0	255	255
4	255	0	0
5	255	0	255
6	255	255	0
7	128	128	128
8	0	0	128

- Camera arrangement

Camera ID is determined as follows.

position	camera ID
right	00
center	01
left	02

- ID, position and size of plants in original images

camera ID	plant ID	upper left coord.	(width, height)
00	00	(30,210)	(480,480)
00	01	(990,240)	(480,480)
00	02	(510,460)	(480,480)
00	03	(960,710)	(480,480)
00	04	(0,670)	(544,480)
01	00	(280,210)	(480,480)
01	01	(1240,240)	(480,480)
01	02	(760,460)	(480,480)
01	03	(1210,710)	(480,480)
01	04	(230,680)	(544,480)
02	00	(640,220)	(480,480)
02	01	(1568,220)	(480,480)
02	02	(1110,460)	(480,480)
02	03	(1540,710)	(480,480)
02	04	(600,690)	(544,480)

