

Spectral Measurement Data for Calibration Patches

Data files

\CALIB directory contains seventeen files. Spectral reflectances of eight calibration colour patches measured by a spectral measurement device are stored in each file. Calibration patch measurements were carried out for sixteen devices ('01' ~ '16') used for data collection for this database, and a standard device ('00'). Optical geometry conditions were the same as those under which data collection was carried out. File names and corresponding devices with their properties are shown in table 1.

Table 1 Data files stored in \CALIB.

File name	ID number of measurement device	Type of measurement device	Measured wavelength region (nm)	Wavelength interval (nm)	Optical condition
cp00.org	00	Chamber	380~780	5	0/45
cp01.org	01	Contact	380~730	10	45/0
cp02.org	02	Contact	400~700	10	0/45
cp03.org	03	Contact	400~700	10	0/45
cp04.org	04	Contact	400~700	10	d/0(specularity excluded)
cp05.org	05	Contact	400~700	5	d/0(specularity excluded)
cp06.org	06	Remote	380~780	5	45/0
cp07.org	07	Remote	380~780	5	45/0
cp08.org	08	Remote	380~780	4	45/0
cp09.org	09	Remote	380~780	4	45/0
cp10.org	10	Chamber	380~780	5	45/0
cp11.org	11	Chamber	380~780	5	d/0(specularity excluded)
cp12.org	12	Contact	400~700	10	45/0
cp13.org	13	Contact	400~700	10	d/8(specularity included)
cp14.org	14	Chamber	380~780	5	0/d(specularity excluded)
cp15.org	15	Contact	400~700	10	d/8(specularity excluded)
cp16.org	16	Contact	400~700	10	d/8(specularity excluded)

2. Measured objects

Measured objects were eight colour patches with a glossy surface, which were produced by Japan Color Research Institute for sensor calibration purposes. Their colours were N1.5, N9.5, 5PB4/10, 7.5RP4/12, 5Y8/12, 5R1/14, 2.5G5/10 and 7.5PB3/10 in the Munsell renotation system, which are roughly black, white, cyan, magenta, yellow, red, green and blue, respectively. Figure 1 shows an example of the measurement result, where reflectances of the eight patches were measured