

< What's New >
Color Space Coordinate Correction Software
(sales on request)

DNP

17th May. '22
Fine Optorionics Operations
Dai Nippon Printing Co., Ltd

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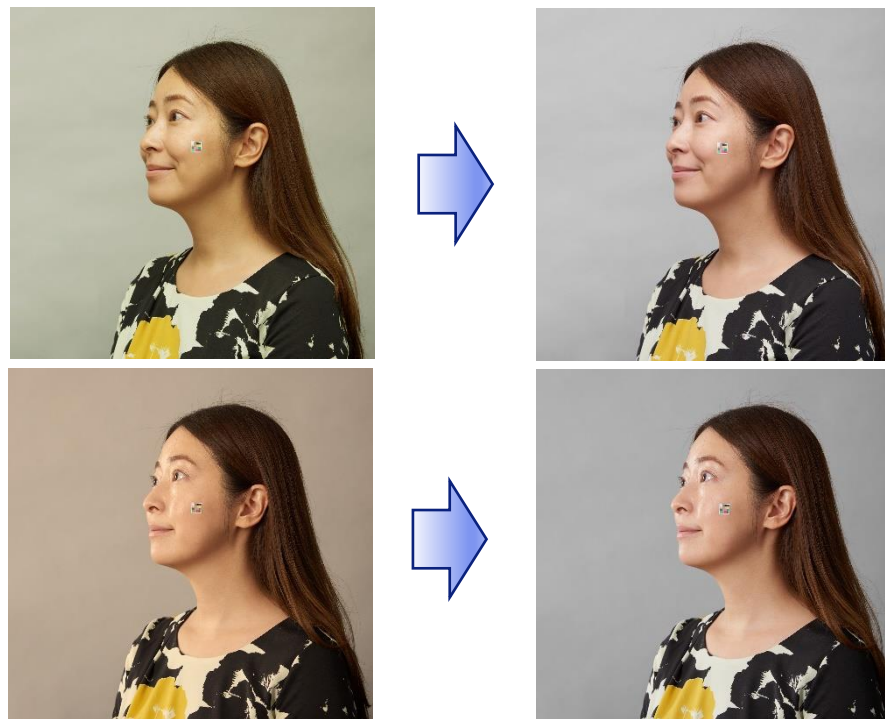
Outline

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This software takes a photograph of a small color chart provided by DNP, etc. at the same time (or under the same conditions) as the subject and processes this image data on a PC equipped with this software to generate a profile (analysis result) for color correction by automatic calculation based on the colors on the color chart.

By applying this profile when viewing a captured image, you can correct the colors to be more accurate on your computer.

https://www.dnp.co.jp/news/detail/10161781_1587.html



Original

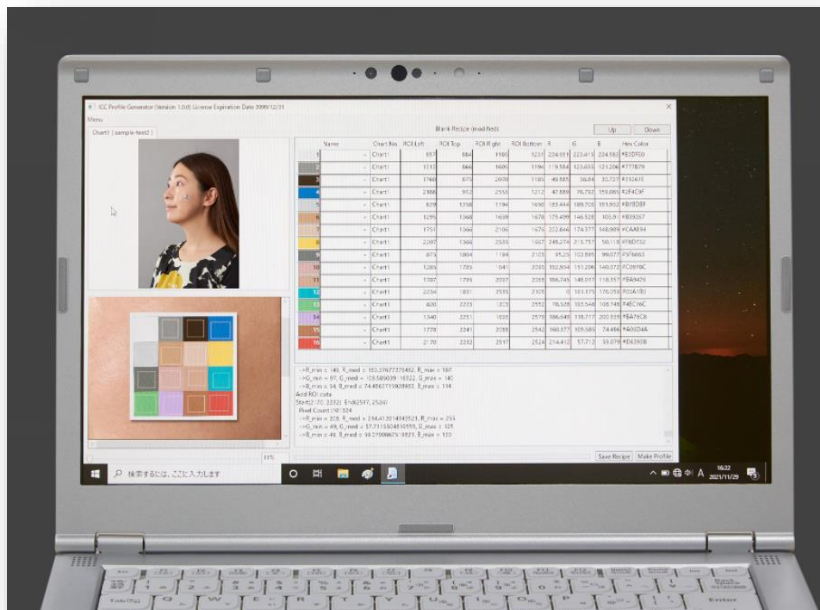
(Same person, different lighting)

Corrected

Example of this software operation

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Photographing the subject
Simultaneous shooting of
Color Charts



Operation screen

Profile Confirmation

Delta E00(Ave.) 11.643 Delta E00(Ave.) 1.099

Name	Delta E00	Before	Reference	Delta E00	After	Reference
C_red	5.416			1.026		
Skin_1-100	9.709			1.987		
C_magenta	11.443			1.405		
C_green	13.187			1.212		
C_cyan	15.596			0.895		
Skin_1-50	12.161			0.638		
Skin_2-100	12.498			1.179		
Gray4.5	16.768			0.924		
C_yellow	6.890			0.914		
Skin_1-0	13.673			1.205		
Skin_2-0	12.805			1.388		
Gray7.5	9.959			0.470		
C_Blue	13.392			0.574		
C_Black	7.989			0.765		
C_Gray	14.896			1.902		
C_white	9.914			1.096		

OK Cancel

Correction Result Screen

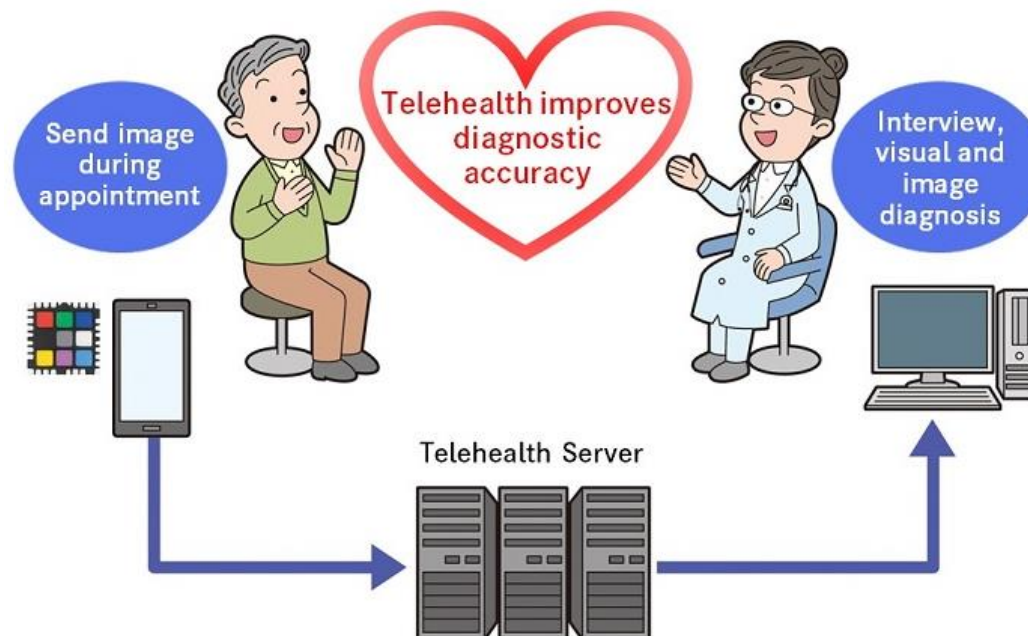
Image correction service for Telehealth-Driven Medical Solutions

DNP

In this service, a patient can take a picture of a small color chart "CASMATCH" (about 1cm square) on his/her cheek or other parts of the body without leaving home. The color and other factors can be properly viewed and used for diagnosis.

DNP will provide this service to companies and other organizations that support the operation of online medical services at medical institutions.

[DNP Launches Image Correction Service for Telehealth-Driven Medical Solutions | What's New | DNP Group](#)



Features of DNP Image Correction Services

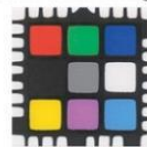
DNP

DNP's image correction service allows patients to take pictures of their own cheeks and hands by attaching "CASMATCH" to them, and then use dedicated software to correct the camera performance of the information equipment used and uneven colors caused by room lighting, and easily display multiple patient images at a certain level of color tone on a remote PC.

CASMATCH has a 1mm scale printed on it, so the doctor can correct the size on the computer!

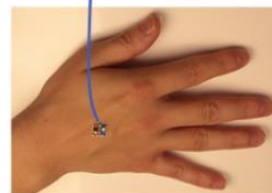
CASMATCH will be marketed by Bear Medic Corporation, a medical device sales company.
<http://www.bearmedic.co.jp/implant/>

10mm² (1mm scaling)

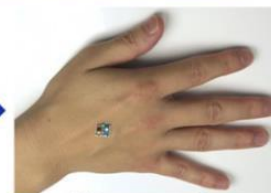


Helps instantly resolve such challenges as images that are too dark, or the use of different photo scales

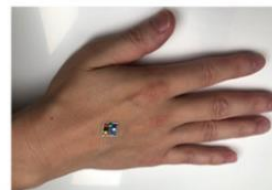
By simultaneously photographing both the CASMATCH and the subject it becomes possible to perform color correction based on the CASMATCH standard.



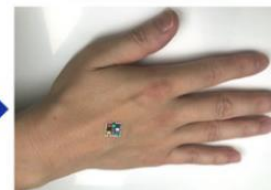
Before correction



After correction



Before correction



After correction

1	Install this software on the PC to be used. Also, store the reference data of DNP color chart as a color standard in the same PC.
2	Place the DNP color chart on or around the subject and photograph it. This image data is then loaded into a PC on which this software is installed.
3	Generate a color correction profile (analysis result) for each image that matches the reference data of the color chart and the color chart that was taken.
4	This profile is used to color-correct the photos taken and display them on the PC display*1, allowing users to see images with a certain level of color tone, close to the original color of the subject, regardless of the camera performance at the time of shooting or differences in conditions such as outdoor or indoor light*2.

*1 Image data corrected using profiles can be displayed on a PC on which this software is not installed.

*2 Please note that this software corrects input images on a PC and does not correct images on a camera or other photographic equipment, or on a display device such as a display.

Recommended system requirements (software)

PC (recommended operating environment)

- OS : Windows 10 Pro 64 bit
- Memory : 4GB RAM or more
- HDD : 1GB or more free space
- Monitor : Full HD (1920 x 1080 pixels) or higher