CLAIMS:

1. A system for remote monitoring, comprising:

a mobile device including a camera that acquires image data of a region of interest;

a color sensor attached to the mobile device by a connector inserted into an input channel of the mobile device, wherein the color sensor acquires true color data of the region of interest;

a computer system that integrates the image data and the true color data by interpolating pixels of the true color data within the region of interest to generate normalized true color data; and

the computer system that receives the image data and the true color data of the region of interest and maps the image data and the true color data to device-independent color image data for assessment by a user.

2. The system of claim 1 wherein the region of interest comprises a wound.

3. The system of claim 1 wherein the mobile device comprises a personal data assistant.

4. The system of claim 1 wherein the true color data comprises red green blue (RGB) values.

5. The system of claim 1 wherein the color sensor comprises a true color sensor and a light source.

6. The system of claim 1 wherein the computer system comprises a cloud service provider.

7. The system of claim 1 wherein the device-independent color image data comprises CIELAB values.

8. A method for remote monitoring, comprising:

receiving, by a computer system from a mobile device, image data and corresponding true color data of a region of interest, wherein number of pixels in the true color data is less than number of pixels in the image data;

integrating, by the computer system, the image data and the true color data by interpolating pixels of the true color data within the region of interest to generate normalized true color data;

mapping, by the computer system, the normalized true color data to device-independent color image data; and

sending, by the computer system to the mobile device, a recommendation based on the device-independent color image data.

9. The method of claim 8 further comprising acquiring, by a color sensor unit communicatively coupled to the mobile device, the true color data of the region of interest.

10. The method of claim 8 wherein receiving the true color data comprises receiving red, green and blue (RGB) color values.

11. The method of claim 8 wherein mapping the normalized true color data to the device-independent color image data comprises mapping red, green and blue (RGB) color values to CIELAB color values.

12. The method of claim 11 wherein mapping the RGB color values to the CIELAB color values comprises mapping the RGB color values to sRGB color values and mapping the sRGB color values to the CIELAB color values.

13. The method of claim 8 wherein sending the recommendation based on the device-independent color image data comprises sending a recommendation for wound management provided by a caregiver reviewing the device-independent color image data.

14. A non-transitory computer-readable medium having stored thereon program code, the program code executable by a computer to:

receive image data and corresponding true color data of a region of interest, wherein number of pixels in the true color data is less than number of pixels in the image data;

integrate the image data and the true color data by interpolating pixels of the true color data within the region of interest to generate normalized true color data;

map the normalized true color data to device-independent color image data; and

send a recommendation based on the device-independent color image data.

15. The computer-readable medium of claim 14 wherein the program code is executable by the computer to receive the true color data by receiving red, green and blue (RGB) color values.

16. The computer-readable medium of claim 14 wherein the program code is executable by the computer to map the normalized true color data to the device-independent color image data by mapping red, green and blue (RGB) color values to CIELAB color values.

17. The computer-readable medium of claim 16 wherein the program code is executable by the computer to map the RGB color values to the CIELAB color values by mapping the RGB color values to sRGB color values and mapping the sRGB color values to the CIELAB color values.

18. The computer-readable medium of claim 14 wherein the program code is executable by the computer to send the recommendation based on the device-independent color image data by sending a recommendation for wound management provided by a caregiver reviewing the device-independent color image data.