



Republic of the Philippines
 NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
OFFICE OF THE CHIEF, PNP
 Camp BGen Rafael T Crame, Quezon City

DEC 08 2020

MEMORANDUM CIRCULAR
 NO.: 2020-088

**PRESCRIBING THE MINIMUM TECHNICAL SPECIFICATIONS
 FOR VEIN VIEWER**

1. REFERENCES:

- a. NAPOLCOM Resolution No. 2020-0046 entitled, "Prescribing the Minimum Standard for Vein Viewer" dated January 20, 2020;
- b. NAPOLCOM Memorandum (MC) No. 2019-002 entitled: "Defining the Duty and Authority of the NAPOLCOM to Prescribe Minimum Standards for Uniforms, Arms, and Equipment to be Procured by the PNP" dated January 29, 2019;
- c. PNP MC No. 2019-016 entitled "Implementing Guidelines of NAPOLCOM Resolution No. 2019-002 Defining the Commission's Function to Prescribe Minimum Standards for Uniforms, Arms and Equipment for the Philippine National Police and Delineation of Authority to the Chief, Philippine National Police and to Set Technical Specifications of PNP Uniforms, Arms and Equipment" dated April 4, 2019; and
- d. PNP UESB Resolution No. 2020-026 entitled, "Approving the Proposed Minimum Technical Specifications for Vein Viewer.

2. RATIONALE:

This MC sets forth the minimum technical specifications for Vein Viewer that will serve as reference in the procurement of the said equipment.

3. SITUATION:

Presently, the PNP Health Service clinicians need a device for visualization and detection of vein beneath the skin to generate very precise images of the venous map on a patient's actual blood pattern and to see through the skin viewing veins, bifurcations, valves, real-time refill/flushing of vessels, and complications such as hematomas from an accidental puncture thereby improving the outcome of the total vascular access procedure.

4. PURPOSE:

To provide and establish the minimum technical specifications for Vein Viewer that will serve as reference in the procurement of the said equipment.

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 POLICE LIEUTENANT COLONEL
 Asst. Chief, PPPD

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5. DEFINITION OF TERMS:

For purposes of this MC, the following terms shall mean:

- a. **Image Resolution** – refers to the detail an image holds. The term applies to raster digital images, film images, and other types of images. Higher resolution means more image detail. Image resolution can be measured in various ways. Resolution quantifies how close lines can be to each other and still be visibly resolved.
- b. **Lumen** – refers to the System International (SI) derived unit of luminous flux, a measure of the total quantity of visible light emitted by a source per unit of time. Luminous flux differs from power in that radiant flux includes all electromagnetic waves emitted, while luminous flux is weighted according to a model of the human eye's sensitivity to various wavelengths.
- c. **Near-infrared** – refers to a spectroscopic method that uses the near-infrared region of the electromagnetic spectrum. Typical applications include medical and physiological diagnostics and research including blood sugar.
- d. **Pediatrics** – refers to the branch of medicine that involves the medical care of infants, children, and adolescents. The American Academy of Pediatrics recommends people be under pediatric care up to the age of 21.
- e. **Sclerotherapy** – refers to a procedure used to treat blood vessels or blood vessel malformations and also those of the lymphatic system. A medicine is injected into the vessels, which makes them shrink. It is used for children and young adults with vascular or lymphatic malformations. In adults, sclerotherapy is often used to treat spider veins, smaller varicose veins, hemorrhoids, and hydroceles.
- f. **Vein** – refers to a vessel through which blood passes from various organs or parts back to the heart, in the systemic circulation carrying blood that has given up most of its oxygen.
- g. **Visualization** – refers to the representation of an object, situation, or set of information as a chart or other image.

6. GUIDELINES:

- a. General Guidelines:

- 1) Description

Vein Viewer is a portable device for visualization and detection of vein beneath the skin to generate very precise images of the venous map on a patient's actual blood pattern.

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- 2) Technical Specifications:
 - a) Dimensions: Handheld;
 - b) Power Source: Battery Operated or AC;
 - c) Weight: 1.6 lbs max;
 - d) The device can project veins image on the surface of the skin;
 - e) The device can outline vein to find optimal puncture site;
 - f) Depth of visualization: 8 mm;
 - g) Light Type: LED light - Near Infrared light;
 - h) Lumens: Adjustable;
 - i) Model: Adjustable;
 - j) Resolution: Manufacturer Standard; and
 - k) Accessories: Tripod Mounted.

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7. EFFECTIVITY:

This MC shall take effect immediately after 15 days from filing a copy thereof at the UP Law Center in consonance with Section 3, Chapter 2, Book VII of Executive Order 292 otherwise known as the "Revised Administrative Code of 1987," as amended.



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Police General
Chief, PNP

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