VEIN VIEWER

- Portable fast set up device should be movable and allow total set up time form time placed by patient and powered on to ready to image area of interest within 1 minute.
- Penetration Depth should provide ability to visualise vessels on average of 6-8 mm deep with 10 mm deep possible; requires clinical evidence to substantiate.
- Multiple imaging mode should provide different imaging modes suitable for adult patients , NICU/paediatric patients and ability to resize the projected window image.
- Should have minimum brightness of 5 lumens and substantiate with technical specifications evidence.
- Image quality and focus should provide a vivid green image appropriate across all skin tones and method of detecting when image is at the proper focal distance, Real time digital image of vascular structure should provide evidence of real time capability via specification of frame rate at 10 frames per second or greater, should demonstrate ability to visualise flushing of fluids through vein and infiltration detection capabilities as clinical evidence.
- Direct projection on surface of skin should not require secondary monitor to interfere with technique.
- Utilisation of device in any orientation without degradation of performance should be able to be positioned in any appropriate orientation to the patient without degradation of image or creation of vascular artefacts to a significant degree.
- Should not be damaged even if dropped from a height of 1.5 metre/ 4 feet.
- Easy to use device and shall not require specialised training.
- Non contact device: Should not come in contact with patient.
- No additional consumables shall be required.
- Non heating or ionisation of skin: should not transmit heat or ionised radiation to skin.
- Allow for hands-free usage during veni-puncture procedure while adhering to 1 minute set up time from time of power on to ready position for region of use.
- Non LASER based system in order to avoid eye safety concerns.
- Should operate on rechargeable battery which has a single charge of 2.5 hours and should be rechargeable while device is in use.
- Clinical evidence: Minimum requirement should be from 3 supporting bodies of clinical evidence, one of which must be pre- reviewed journal in quality.

1. Machine should use harmless near infra red (NIR) Light.
2. It should be very similar to pulse oximetry, which is flooded down to the patients skin surface,
3. The machine must see approx. 10 mm deep for most patients.
4. Machine should be mobile and easily maneuverable, allowing the device to be aadjusted according to patient position, leaving clinician's hand free to perform procedure.
5. Machine should have LED bases projection system.
6. On site live demonstration of machine is must
7. Tender would be rejected if compliance statement is not attached.
8. Warranty of five years and CMC shall be quoted for another 5 years after warranty expiry.
9. CE/FDA approved.