FORENSIC MEDICAL EXAMINATIONS - A CHALLENGING SITUATION.....SOLVED!

EASY TO USE, RELIABLE & TOTALLY SECURE

THE NEXT GENERATION COLPOSCOPE

Cortexflo is designed to meet the unique photographic, data-storage and security require-ments necessary for medical forensic examinations of children and adults who have suffered sexual and physical abuse.

EASY TO USE

RELIABLE

TOTALLY SECURE

By incorporating innovative technologies, minimal photographic expertise are required to secure high quality, in-focus images and videos. In-addition the system has been designed to allow for hands free operation in situations where the user needs to use both hands during an examination.

Cortexflo can be installed in to a variety of environments including CAC's, Hospitals, Emer-gency Rooms, Military locations ???etc. The system can be a completely standalone con-figuration with independent long term secure storage or can be fully integrated with on site networks and servers.

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PHOTOGRAPHS

Incorporates a Canon digital SLR camera with an LED ring light. The camera is mounted on a counter balanced, height adjustable arm requiring minimal physical effort to position. No photos are stored on memory cards and the camera is A/C powered so does not require batteries.

VIDEO

Record video clips in high definition, with or without audio. During playback videos can be paused and still frames saved as photographs.

WORKFLOW

As soon as a photograph is taken, it is displayed on the touchscreen monitor so the examiner can assess if the image is in focus. They can then continue with the examination based on the immediate confirmation that they have secured a high quality image.

ANNOTATION

A group of annotation tools, selected and added via the touch screen interface, allow the examiner to add shapes, lines, orientation diagrams and written notes to images. Helping to identify a possible injury and add comments.

HARDWARE BUILT TO LAST

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PEER REVIEW

Photos can be electronically shared with third parties easily through the peer review system. Reviewers are sent an e-mail informing them they have a new case to view. Cases are protected with a password created by the user. When the password is correctly entered, the reviewer can view the photos on any internet connected device.

FOOT PEDAL

The foot pedal gives an examiner the flexibility to decide how to take photographs/video dependent on the physical position of the patient. Allowing the examiner free use of both hands.

STORAGE

Flexible options available for long term case storage. Cortexflo can integrate with most existing network-based storage systems, or our Storage Module can be supplied for a standalone implementation.

VOICE CONTROL

User customizable commands to focus the camera and capture photos and videos. Allows for true hands-free operation once the camera is correctly positioned.

SOFTWARE MADE SIMPLE

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CONTRAST FILTER

Two contrast filters can be applied to photos. Our contrast filter uses the Histogram Equalization approach as used in other image tools, like Thumbs Plus. Contrast filters can help to identify bruising and provide an alternative view of injuries.

ALS

Our ring light includes a set of 455nm UV LED as well as our standard 5600k LED. The easily detachable orange filter can be applied to the camera lens to enable ALS mode on the camera. Photos can then be captured under UV light and regular light without changing the position or angle of the camera.

Cortexflo Capture Mobile retains all the functionality of the fixed location model, but allows for the system to be transported and set up in multiple locations. This is ideal for ?????.

Carried in two secure, wheeled cases, the mobile system can be configured quickly by a single user. The touch screen and camera are placed on versatile tripods, that can be adjusted in height and direction.
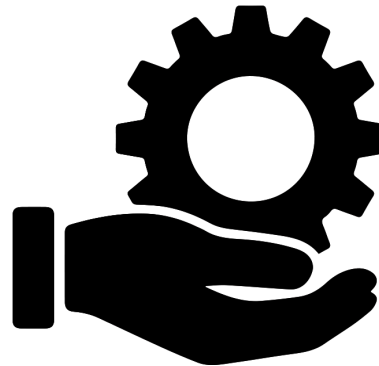
For pediatric locations there are a number of child friendly designs that can help create a less intimidating environment for examinations.
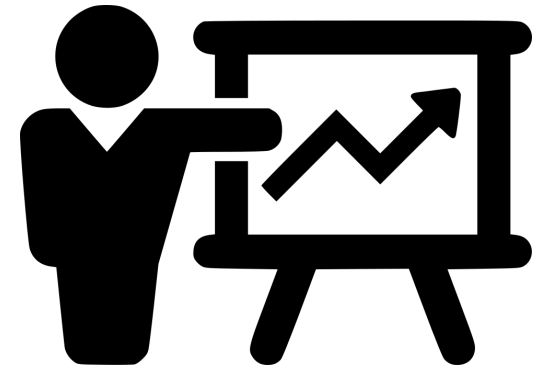
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SUPPORT

24/7/365 technical support available to all customers. In this sensitive environment, it is crucial that issues are resolved quickly.

SERVICE

Annual service contracts provide protection for hardware malfunctions and breakages. Annual service and maintenance visits ensure systems are maintained, efficient and up to date.

TRAINING

Individual and group training included on install. Covering key functions and implementation. Advanced training options available.

Hardware Specification

Touch Screen

 19" 4:3 aspect ratio

 Glove friendly

 Medical grade glass front for easy cleaning

 Height adjustable

 Rotate for the best viewing angle

 Microphone for Voice Control

Camera

 Canon 20MP Digital SLR

 18-55mm IS STM Zoom Lens

 LED ring light with adjustable brightness

 Camera & Ring Light AC powered

 Removeable ring light filter for easy cleaning

 Pan / Tilt head for camera adjustment

 SD Card is not used to store photos. No photos written to the SD card.

Hardware

 5 star wheel base with brakes for stability

 Locked enclosure box for computer, cables and power

 15ft power cord

 Wraps available for the enclosure

Software Features

Photo Encryption – All photos are encrypted using AES-256

Photo Storage – Photos can be stored on secure share drives or other network storage locations.

MD5 & SHA1 Hashing – Hash values for all photos and video files are generated and stored. Hash values can be used to verify the integrity of digital evidence.

Role Based Access – Access to software features can be controlled by granting / revoking roles to individual users

EHR Integration – Can integrate with electronic health record systems to directly store photos into a patient chart

Active Directory Integration – Users can be authenticated using active directory instead of passwords

Custom Patient Information – Choose what information is used to identify patients, for example, Case Number, MRN, Name, Initials, DOB etc

Delete Photos – Photos which are not required can safely be deleted from cases

Recycle Bin – Deleted photos can be recovered

Photo Export – Photos can be exported to USB, DVD or network storage. Either encrypted with a password or unencrypted

Case Transfer – Securely transfer cases between Cortexflo systems

Synchronization – Cortexflo systems in multiple locations can be synchronised to a central database for easy access to cases and for updating users

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