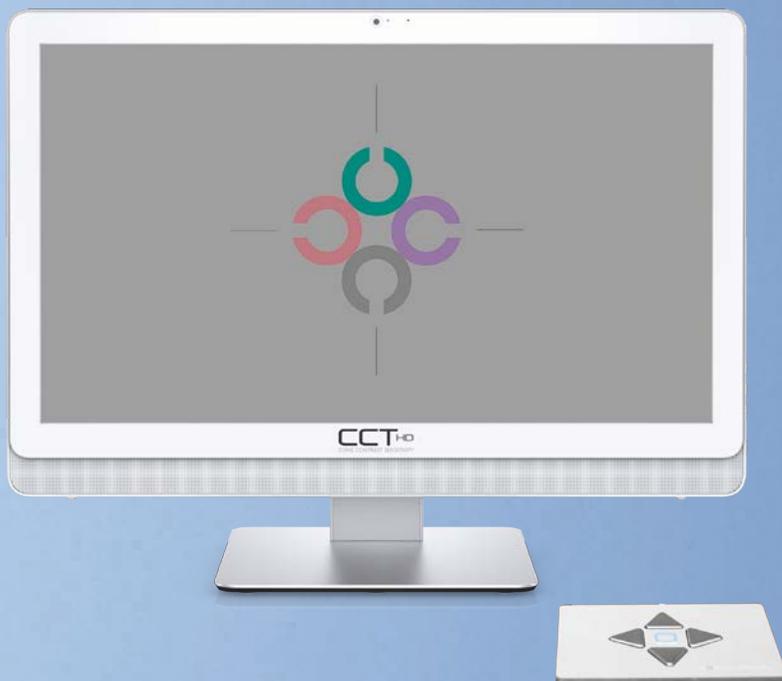


KONAN[®] MEDICAL

See what you've been missing[™]

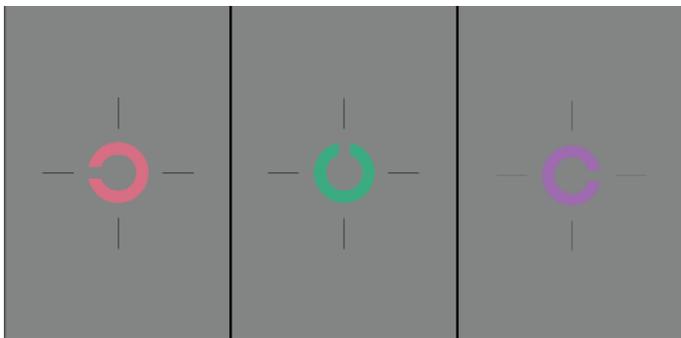


ColorD[®]
COLOR VISION DIAGNOSTICS

ColorDx CCT HD is a new, high-precision, computer administered color vision diagnostic device developed under a Cooperative Research and Development Agreement (CRADA) between the US Air Force OBVA Laboratory and Konan Medical USA.

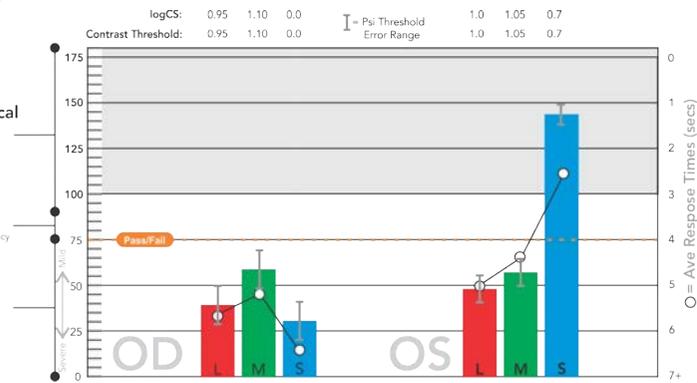
ColorDx CCT HD is based on the cone contrast isolation strategy, with many significant advantages over the original CCT test.

- A robust, adaptive thresholding method developed by Nicolaas Prins¹ improves precision and reliability over previous non-standardized thresholding methods
- Simplified test strategy using the Landolt C eliminates contextual bias from varied complexity of the Sloan character series
- Randomized Monocular and Binocular testing
- Fast screening option
- "HD" High Definition testing extends low contrast threshold range with high granularity of determined contrast threshold
- Proprietary color calibration method enhances the precision of measured thresholds
- Konan 4 button control pad reduces variability in response times by eliminating the need to 'hunt and peck' on a QWERTY keyboard
- Response methodology is neutral to language, culture, literacy and physical ability

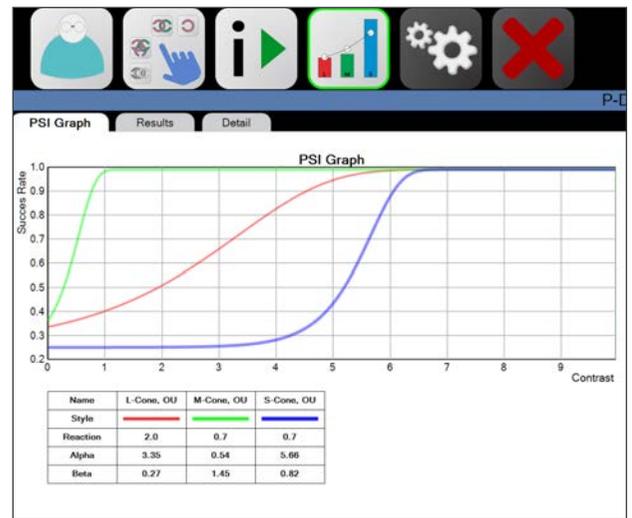


A rotated Landolt C is used to assess L (Red), M (Green) and S (Blue) cone cell function. The 4 response options are simply UP, DOWN, LEFT OR RIGHT.

¹The psi-marginal adaptive method: How to give nuisance parameters the attention they deserve (no more, no less), Nicolaas Prins, Journal of Vision (2013) 13(7):3, 1-17



Detailed monocular results including USAF pass/fail criteria and response timings



PSI thresholding algorithm



Konan 4 button response pad

Monocular and binocular test strategies & scoring

OD OS OU

Robust Psi Marginal Adaptive threshold + error estimation

Adaptive, fast testing or full threshold

Very low contrast range to 0.2%
 ~~ceiling effect~~

High granularity contrast steps



Photopic cone isolation
 ~85 cd/m²



Language & literacy neutral, no character bias, Landolt

C

Easy testing with purpose-built response device



CCT HD

CONE CONTRAST SENSITIVITY

World's Most Advanced Color Vision Diagnostic

Smart, deep, dual calibration



Response time 2^o performance measure



Secure 256 Bit encrypted patient data



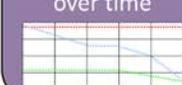
Clear auditory feedback



USAF OBVA CRADA
 ISO 13485

Cut-off criteria may be user / agency set
 Pass/Fail

Patient trends analysis over time

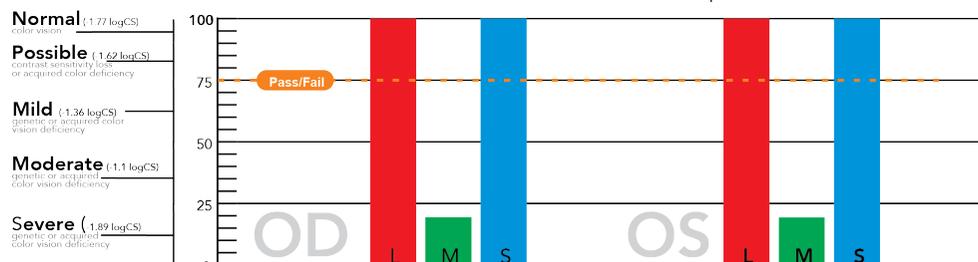


Robust, beautiful reporting



Original USAF CCT

tested with 5 contrast steps



CCT HD

expanded contrast range and high granularity

