Our new, fully-researched picture optotypes provide a reliable visual acuity measurement from as young as 18 months of age.

- Improved and modernised design
- Based on recent research evidence on spacing and crowding
- Most recognisable to children under 30 months
- Minimum variability in legibility across the optotypes

Kay Pictures is proud to announce our new, improved picture vision testing system.

In a comprehensive research study, the test was shown to be valid and repeatable within the limits of current gold standards with high testability.[1,2]

The research was carried out by Liverpool University Directorate of Orthoptics and Vision Science and a number of clinical orthoptic departments across the UK and The Retina Foundation of the Southwest, USA.

Picture recognition

The chosen pictures were shown to be most easily recognised by a group of 420 children, including 33 non-English speakers and 53 with developmental delay.

Legibility

25 pictures were compared with Landolt C and ETDRS in two phases. The six pictures chosen have similar legibility.

Comparison with current tests

One hundred and thirteen subjects were assessed and the mean bias between Kay Pictures and ETDRS was 0.083, approximately one LogMAR line difference.

The new single crowded pictures showed no statistically significant difference when compared with the original linear crowded test on 118 subjects p=0.1.[3]

Test retest variability

There was low test retest variability on 100 subjects, comparable to published values for other tests. Paired t-test analysis demonstrated no significant difference between test one and test two in either ETDRS (p=0.1) or Kay Pictures (p=0.1). Mean bias for both tests was 0.01 logMAR with similar limits of agreement.[2]

FURTHER INFORMATION AT:
www.kaypictures.com

1. O'Connor AR Kay H, Thomson D, Newsham D. Redesigning the Kay Picture Test for Children. Invest Ophthalmol Vis Sci April 2010 Volume 51, Issue 13.
2. O'Connor AR, Kay H, Milling A, Newsham D, Tidbury LP. Redevelopment of the Kay Picture Test. Br Irish Orthop J 2016. In press
3. O'Connor AR, Kay H, Milling A, Newsham D, Tidbury LP. Understanding the New Kay Picture Visual Acuity test. (Conference abstract submitted).