



# The New Breed of Cost-Effective, Hand Held, Portable, Time-Saving Ophthalmic Instruments

## **Presenter**

Tom Cockley, President  
Gulden Ophthalmics

## **Introduction**

Vision care professionals constantly strive to serve their patients with diagnoses, procedures, and solutions that maintain and improve vision. Evolving technologies have assisted professionals by providing the tools and instruments that make vision care more efficient for the provider and comfortable and effective for the patient.

Gulden Ophthalmics has provided cost-effective timesaving diagnostic instruments, devices, and patient care products for over 70 years. Many Gulden products have been developed in conjunction with eye care specialists who have communicated challenges and solutions to eye care treatment.

We are confident that the instruments and devices detailed here will help vision care professionals in their practices to serve their patients better. We have selected a series of new and groundbreaking products that have been proven in the field and have generated interest and use to serve professionals and their patients beneficially and effectively.

## **For more information**

Further details and specifications on each device can be found on the Gulden website. Simply click on the link below each product or on the photo.

## Automated Confrontation Visual Field Tester (ACV)

Determination of visual field loss is an important part of a comprehensive eye examination. Routine threshold or screening visual fields, which are time consuming, have not been shown to be cost effective because of their relatively low detection rate.

Gulden's Automated Confrontation Visual Field Tester (ACV) is an automated LED gross confrontational visual field tester. The device presents automated, randomized patterns of lit LEDs and the patient is asked to identify the number of lights seen.

Advantages include:

It is cost effective

It is simple to use

It is fast – both eyes can be tested in less than a minute

Requires very little training or experience.

It is more accurate and sensitive than using finger confrontation methods because it is automated and consistent.

The light weight and portability of the ACV make it ideal for use in the field, in nursing homes, and underdeveloped countries where the cost of automated testing devices precludes visual field testing.

[Click here for more information on the Gulden website.](#)



## MG Expressor Kit

Gulden's MG Expressor Kit helps bring relief to patients with Meibomian Gland Dysfunction. Conceptualized and developed by Dr. Mario Gutierrez of San Antonio, Texas, the MG Lid Plate is placed behind the lid, and the MG Expressor tool is gently rolled over the eyelids and eyelid margins to help non-invasively express and decongest the Meibomian Glands.

Advantages include:

A staff technician overseen by the doctor or the doctor can accomplish the treatment in just a matter of minutes

Provides rapid relief to the patient.

No need for topical anesthetics or cotton tip applicators

The procedure can be easily performed with or without a slit lamp.

The kit contains an EyeGiene® mask, 20 EyeGiene® refills, an MG Lid Plate tool, and a package of [10] replaceable expressor tool covers. Additional EyeGiene® refills and covers can be ordered separately.

[Click here for more information on the Gulden website.](#)



## Illuminated Near Card

The Illuminated Near Card and the Illuminated Amsler Grid overcome the disadvantages of previous near cards that are prone to wear and tear, aging and yellowing, scratched and/or damaged lettering that wears off, and require that a lamp or illumination source be provided for their use.

This high tech self Illuminated Near Number Card is the last number near card you need to buy. It can also be used to emulate a computer screen at near. It is well protected in a rubberized sure grip frame, it will never yellow and the print will never wear off. It has an LED backlit display that standardizes illumination and illuminates reflections. There is no need to bring over a lamp for the patient to read the card. The card will always stay crisp, clean and clear.



The Illuminated Near Card is useful in quickly ruling in or out maculopathy when a patient presents with vision loss, preventing time-consuming and costly testing. The Near Card is also valuable in predicting post-operative visual acuity in eyes with cataracts – helping the eye care professional determine what portion of vision loss is a result of a cataract versus due to maculopathy. The Illuminated Amsler Grid is useful in testing near vision and evaluating the macula in patients since one of the first signs of macular degeneration can be wavy, broken or distorted lines or a missing vision area, thus facilitating early detection of abnormal scotomas. The Illuminated Amsler Grid helps in preoperative evaluation of patients about to undergo Keratoplasty or cataract extraction since corneal opacities or cataracts often preclude visualization of macular details whereas the Amsler Grid is useful in assessing macular function.

Testing with both the Illuminated Near Card and the Illuminated Amsler Grid can be performed in less than a minute, is easy for both staff and patient, and is simple and quick enough to be used as a routine diagnostic screening tool for all eye exams.

[Click here for more information on the Gulden website](#)

## Pocket Ophthalmoscope

The Optyse™ Lens-Free Pocket-Sized Ophthalmoscope is a new, very compact ophthalmoscope that is ideal for rapid and accurate central fundus evaluation. It is very simple to use with no lenses or filter wheels. Due to its portability and affordability, it offers eye care professionals, physicians (especially primary care, pediatric, and geriatric physicians), nurses, midwives (for infant eye examination) and even medical and healthcare students a rapid, easy to use, method to screen for many medical conditions that an eye exam can reveal.

The Optyse Ophthalmoscope is excellent for diagnosing and monitoring many potentially serious eyesight and medical conditions using funduscopy an exam of the back of the eye. These conditions can include cataracts, glaucoma, age-related macular degeneration, hypertension, diabetes, brain tumors, infections, cerebral malaria, and Alzheimer's. Compared to older, larger ophthalmoscopes, Optyse is easier to carry, easier to use, and less complex.



[Click here for more information on the Gulden website.](#)

## Raff Level Trial Flipper

The Raff Trial Flipper helps present and compare a new eye correction prescription to the patient's current prescription. In using the Trial Flipper, Dr. Raff has not had a single remake since using it.

Advantages include:

Quick and very easy to use

Built-in level balances prescriptions to eliminate off-axis rotation

Eliminates costly remakes with its more accurate trial lens presentation

Inspires patient confidence by providing a positive visual experience

Use to balance cylinder and prismatic corrections

Great for pediatric and nursing home use.



[Click here for more information on the Gulden website.](#)

## Trial Lens Holder Kits

Gulden Trial Lens Holder Kits are the most versatile tools of their type available.

Advantages include:

Helps speed the trial lens process

Comfortable for the patient

Modular in design

Available in four (4) parts

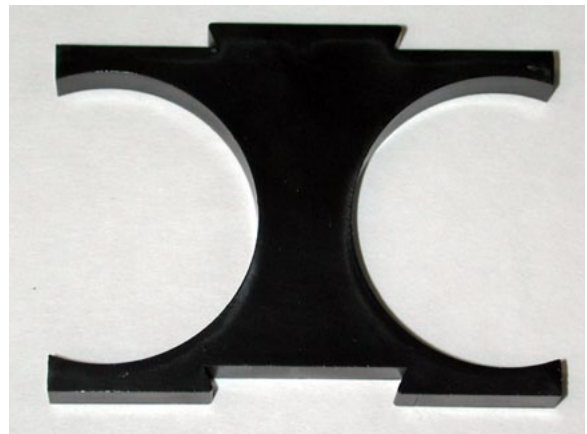
Can be assembled in unlimited configurations

Available in the following kits:

The 4 Well Kit - 2 Lens Holders, a Nose Bridge and a Handle

The 8 Well Kit - 2 Lens Holders, 2 Lens Holders with axis scale, a Nose Bridge and a Handle

The 10 Well Kit - 5 Lens Holders and a Handle.



[Click here for more information on the Gulden website.](#)

## Siepsner Vitreous Floater Demonstrator

Floaters can be bothersome – or harbingers of impending retinal detachment or other serious conditions. The Siepsner Vitreous Floater Demonstrator helps eye care professionals encourage patients to report unusual, new or troublesome visual symptoms. With the Demonstrator, professionals who encourage their patients to report these phenomena now have a simple, effective tool to explain them.

Advantages include:

Helps to classify and demonstrate how floaters, including the Weiss Ring, are caused

Quickly and easily helps the practitioner demonstrate and explain the “shadowing” effect on the patient’s vision.

Helps verify less ominous, age-related changes compared to serious conditions associated with vitreous detachment or condensation

Helps the eye care practitioner explain benign versus serious conditions

Provides the opportunity to help ease patient concerns

Helps save chair time.

[Click here for more information on the Gulden website.](#)



## Gulden's Combo Occluder™

The Combo Occluder™ is six tools in one easy-to-use, easy-to-find tool. One end contains fixation targets (one letter and one symbol .6m, .8m, 1.0m, 1.6m plus 2.0m & 2.5m letters) on a rotary thumbwheel that also serves as an occluder.

The other end contains the red lens, Maddox rod; together with Gulden's new and improved multiple pinhole tests.

Advantages include:

Eliminates searching for the correct instrument since everything is contained in one single unit

Improved target clarity provides easy patient alignment.

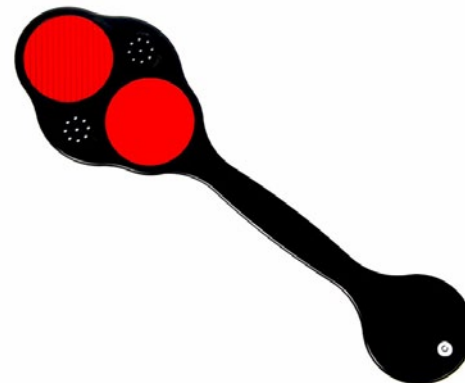
The 1.3 mm multiple pinholes allow 69% more light to compensate for cataracts

Saves time by eliminating searching for and having to pick up the right instrument

Very high quality ensures durability and long life

Single purchase is much less than the cost of all the instruments purchased separately.

[Click here for more information on the Gulden website.](#)



## Neutral Density BAR

This innovative Neutral Density Bar uses the six standard ND levels most useful for quantifying afferent pupillary defects.

Advantages include:

Compact – easily fits in a shirt or clinic jacket pocket

Saves time by not having to select, pick up and put down individual filters

“Prism Bar” format makes quantifying afferent pupillary defects a simple task

Can be used in conjunction with the “Swinging Flashlight” test to detect and quantify the depth of any afferent conduction defect

The 0.3 ND filter is most useful for uncovering a borderline pupil defect

The six filters are rated as 0.3, 0.6, 0.9, 1.2, 1.5, and 1.8 log unit optical density values  
Each filter measures 2.5 x 3cm, made of high grade, optically clear plastic.



[Click here for more information on the Gulden website.](#)

## Horizontal-Vertical (H/V) Combination Prism Bar

Gulden's Combination Horizontal-Vertical Prism Bar

addresses the problem that can occur when using two prisms simultaneously to measure ocular deviation since the deviation neutralized by a prism bar can vary depending on how the prism is held with respect to the patient's line of sight. Errors can occur if a prism or prisms are not held in the position for which they are calibrated.

Advantages include:

Accurately measures horizontal and vertical ocular deviation

Saves time since one instrument makes two evaluations

Eliminates erroneous measurements that can occur when

separate horizontal and vertical prism bars are used simultaneously since they are customarily held back-to-back, which reverses the rear prism bar from its usual position.

Assures accurate determination by having the horizontal prism bar slide up and down in a channel affixed to the vertical prism bar.



Design ensures that the flat surfaces of both prism bars are held perpendicular to the direction of the fixation object.

The vertical prism bar is calibrated in the Prentice position, and the horizontal bar is calibrated in the frontal plane position.

Primary and secondary deviations can be measured.

[Click here for more information on the Gulden website.](#)



## Vergence Facility Prism

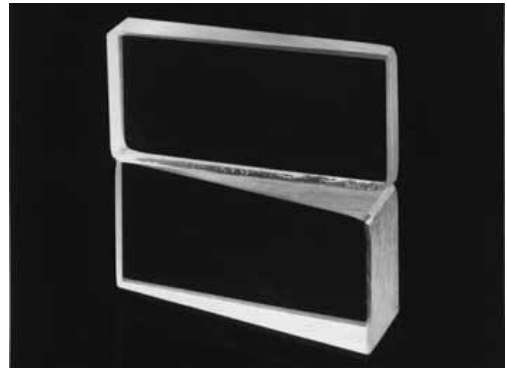
Gulden's VF Prism combines a 3Δ base in and 12Δ base out prism into a single prism.

Advantages include:

Vergence facility testing allows the clinician to quickly identify patients with binocular vision problems in a primary care examination

High quality construction assures long, reliable life and durability.

[Click here for more information on the Gulden website.](#)



## Chronister Pocket Acuity Chart (CPAC)

Gulden's Chronister Pocket Acuity Chart is excellent for quick screenings of visual acuity. It contains 23 pages of targets, from 20/220 to 20/10 and provides a conversion chart to change Snellen targets to any distance.

Advantages include:

Unique design is excellent for use during "out-of-office" examinations in hospitals, nursing homes, and during home visit screenings

Letters on the chart are carefully spaced to help the elderly and patients with decreased acuity easily read the letters

Instructions on the inside cover facilitate visual screenings, promoting a more accurate acuity measurement in patients who might easily be confused

Letters are provided for distance- and near-acuity testing

Small, compact size can be carried in lab coat or pocket

Laminated for durability and long life.

[Click here for more information on the Gulden website.](#)



## C Daylight™ Glasses

C Daylight™ Glasses are Type C illumination correction filter glasses that turn regular incandescent examination room light into Type C daylight, optimizing accurate color vision testing.

Advantages include:

Saves time by not requiring movement of the patient to a specially illuminated test area

Is less expensive and more convenient than the Macbeth Easel Lamp when used as part of the Daylight Glasses and Lamp Kit

Utilizes a specially designed blue gel material that transforms regular incandescent light into accurate Illuminant C

Color temperature of 6400-7000 degrees K (depending on lamp bulb wattage) provides more accurate color blindness testing.



[Click here for more information on the Gulden website.](#)

[Click here for a Specifications Article.](#)

## Eyeview

Gulden's EyeView helps patients explore and better understand the interior of their eyes. The device creates a minute pinpoint of light holding it up to the eye creates silhouettes on the retina of floaters, including bits of cells, protein strands, specks, granulated filaments, and other materials primarily in the vitreous humor, but some users can also see corneal and aqueous humor matter and even tears evaporating. The EyeView can also be used to monitor cleanliness of contact lenses since debris missed in cleaning can't often be seen. The device is not a means of self-diagnosis and is not a substitute for an exam by an eye professional. It is an educational tool that helps increase patients' knowledge about their eyes.



[Click here for more information on the Gulden website.](#)

## Magnetic Foreign Body Removers

The magnetic foreign body spud is useful in removing both metallic and nonmetallic corneal foreign bodies. The magnetic foreign body spud removes metallic foreign bodies with ease.

Advantages include:

Reduced trauma to the cornea

Reducing trauma decreases the chance of infection

Promotes quicker healing.

[Click here for more information on the Gulden website.](#)



16109 Dix style



16108 Ellis style





## Tonometer Tip Cleaner Caddie

The tip cleaner caddie facilitates cleaning of tonometer tips. Convenience and economical cost makes it advantageous to outfit each exam room with one.

Advantages include:

- Quickly disinfects tonometer tips
- Keeps drops well organized
- No need to search for missing bottles
- Removable, refillable cleaning cup
- Easily maintained by a staff or technician
- Small footprint for counter top use or easily wall mounted
- One smaller hole for holding Goniosol upside down
- Peroxide cup with fill line
- Two smallest holes for tonometer tip drying.

[Click here for more information on the Gulden website.](#)



## Contact Lens Checker

This new dual-purpose device produces fast, accurate, reproducible results. The 42.50-diopter stainless steel ball allows you to easily calibrate your Keratometer. And the lens holder prevents expensive mistakes by allowing you to quickly confirm base curves when ordering replacement contact lenses. To measure the base curve of hard lenses, simply place the RGP lens in the depression well using contact lens wetting solution.

Advantages include:

- Facilitates examination for warpage or any changes to the base curve
- Performs as accurately as a radiuscope yet more economical and faster
- Easily mounts and dismounts for moving from lane to lane
- By simplifying Keratometer calibration, helps prevent expensive mistakes when ordering contact lenses
- Can be used on any model Keratometer
- Easily mounts on Keratometer or slit lamp
- Portable, carry it with you, take it from lane to lane
- Can pay for itself many times over by preventing costly errors.

[Click here for more information on the Gulden website.](#)

