

## DTL Plus Product Specification

The DTL Plus is an ultra low impedance, medical grade silver / nylon electrode developed for use in ERG testing. The DTL Plus incorporates several changes to previous fiber electrodes in physical construction and low impedance technology. The result of these improvements is a ready to use, disposable, corneal eye electrode that significantly enhances patient comfort. Additional benefits include a reduction in intra and inter laboratory coefficient of variation in ERG results. Created from the best medical grade materials, the DTL represents the most convenient and comfortable methodology for ERG testing.



**NOTE:** This is a non sterile product. DTLs can be sterilized using a gas process, however sterilization is not required for use.

### Ordering Information (Samples Available)

Part No	Description
D141	Single use DTL plus electrode
D144	1m extender cable (normally sold as pairs)
D401	Male to Female plug converter
D402	Female to Male plug converter
D177	Single headbox jumper

### Specification

#### Medical Grade Silver / Nylon Specifically Designed for the ERG Professional

- New fiber construction and design
- Dimensions: thread length 2.5" (6.5cm), connector wire 5" (13cm)
- Low impedance technology, high signal to noise ratio
- Highest silver content/conductivity available
- Disposable design eliminates risk of transferring infection
- CE approved

## Proven Patient Comfort

- Recognized worldwide as the most comfortable electrode for the patient - no anesthetic required
- Reduces patient anxiety and discomfort
- Three-step operation allows testing to begin immediately
- The electrode of choice for children and elderly patients
- Facilitates rapid testing, through rapid three step installation

## Consistent, Reliable, Performance

- Provides accurate and precise ERG test results
- Standardized design and ultra low impedance fiber minimizes variation
- The ISCEV standard for the growing pattern ERG market
- There are many papers and references about the DTL's performance and excellence including comparisons between electrode types to be found on the web



DTL Electrode in use

## Common Questions about the DTL

Questions	Answers
Are the DTLs sterile?	No, and do not require sterilization before use. You may however sterilize them if desired. Gas is best
Is the electrode a single fiber?	No. The electrode is composed of some seven interwoven fibers
Do you recommend any form of conductive lubricant on the eye?	No lubricant is necessary, though some users prefer to wet the electrode with isotonic saline to keep the fibers together when inserting
Should anesthetic be applied before the DTL is inserted into the eye?	Anesthetic is unnecessary. The DTL causes a slight foreign-body sensation when first applied, however, the sensation fades in minutes, and the DTL is unnoticeable afterwards
How long can the DTL be left in the eye?	When properly installed, the DTL causes no noticeable irritation and therefore can be left in the eye indefinitely, with no side effects.
How many uses is one DTL good for?	We recommend that the DTLs be disposed of after each use.

How do I buy it?

[Contact](#) any Diagnosis Office. Quantity discounts are available. Or, fill out the registration form [here](#).

### **Installing the Electrode:**

The electrode can be easily inserted into the patient's eye if you follow these instructions:

- Open the package
- On occasion, fibers become slightly separated, if this occurs, place a few drops of saline solution onto the fibers to stick them together.
- Remove the two sticky patches and affix the smaller end patch onto the nose with the fiber pointing towards the eye. (You might have to rotate the sticky patch to achieve this)
- Ask the patient to look up and slightly pull down their lower eyelid.
- Drape the fiber over the eye just above the lid, making sure as much of the fiber as possible is in contact with the eye.
- Release the eyelid. The fiber should now be either slightly behind the lid or just at the top of the lower lid in contact with the eye. You may need to perform this step again until the fiber sits correctly
- Stick the larger sticky pad to the side of the face near the eye and drape the connection wire over the patient's ear
- Check that the fiber is not too taught. You might ask the patient if it the electrode is comfortable (after a few minutes they will hardly notice it's presence). If in doubt move the larger sticky pad slightly nearer to the eye to reduce tension
- Finally connect the extension lead onto the electrode and plug the other end into the montage.

**If all has gone well, your electrode should be in place similarly to that shown below:**



Properly installed DTL Plus Electrode