

# Clinical Applications

## Nerve Conduction, Neuromuscular and Autonomic Studies:

### Nerve Conduction Test Software

Motor Nerve Conduction, Sensory Nerve Conduction, Combined Motor and Sensory Nerve Conduction, Sympathetic Skin Response, Inching, F Wave, H Reflex, Blink Reflex, Collision

### Neuromuscular Studies Test Software

Decrement and High Frequency Repetitive Stimulation

## EMG Studies:

### All packages include:

- LivePlay™ - instant replay of EMG waveforms with audio; review and analysis of 20 seconds of continuous EMG
- LongTrace™ - display for sampling, review and analysis of extended interference pattern recordings.

### Needle EMG Test Software

Free running, triggered, superimposed, rastered, Single MUAP

### Quantitative EMG Test Software

Multi MUP (Decomposition) and Interference Pattern (FFT, Experts Quantitative Interference Pattern Analysis, TA)

### Single Fiber EMG Test Software

Triggered and Stimulated SFJ, Fiber Density, Macro EMG tests.

## Evoked Potentials:

### All packages include:

- Unique 5 channel option for ISCEV - standard VEPs
- Software controlled montaging facility at amplifier (not 2 channel instruments)
- Electrode impedance check at amplifier and system.
- Support of a wide range of visual and auditory stimulators.

### SEP Test Software

Upper and lower limb SEP, DSEP

### AEP Test Software

BAER, CERA, MLR, ECoHG, 40Hz. Includes audio stimulator hardware

### VEP Test Software

Flash VEP, Pattern VEP, Flash ERG, Pattern ERG, Combined VEP/ERG, EOG. Includes visual stimulator hardware; monitor is an option

### Cognitive EP Test Software

Includes P300 and CNV tests with CNV Response Unit

## Optional TECA Guardian Intra-Operative Monitoring Packages:

A wide range of recording and stimulus modalities can be run simultaneously, including EMG and EPs giving the complete neurological picture in real time. This versatility helps

safeguard your patient in the operating room and intensive care unit. Additional tests: Stimulated EMG and MEP

## Not only a diagnostic system:

The Synergy systems come with Microsoft Office™ as standard. This includes Word for letters, PowerPoint for presentations, Excel for billing purposes and Access for research purposes.

The systems are also network ready with Microsoft Windows™.

*excellence in healthcare*

The TECA Synergy range of multimedia EMG systems has been designed and manufactured by Oxford Instruments Medical, an international company that has always had an enviable reputation for innovation and quality of its products. Oxford Instruments Medical has been certified by Lloyd's Register Quality Assurance (LRQA) as an approved medical devices manufacturer as meeting the requirements of BS EN ISO 9001, BS EN 46001 and the Medical Devices Directive (93/42/EEC). The TECA Synergy range of multimedia EMG systems has been independently tested and successfully approved to the following medical safety standards: EN 60601-1, EN 60601-1-2, EN 60601-2-40, IEC 601-1, IEC 601-2-40, UL 2601-1 and CAN/CSA-C22.2 No. 601.1-M90. The TECA Synergy range of multimedia EMG systems is CE Marked in accordance with the European Council Directive 93/42/EEC concerning medical devices. The TECA Synergy range of multimedia EMG systems bears the ETL Listing Mark, which is a Nationally Recognized Testing Laboratory (NRTL) Mark in the United States and Canada.

CAUTION: Federal law restricts this device to sale by or on the order of a physician

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# TECASynergy

The latest generation EMG/EP systems



# Your choice because time is of the essence

Now Oxford Instruments Medical bring you the latest generation of TECA Synergy EMG/EP systems – proven instrumentation enhanced with you in mind

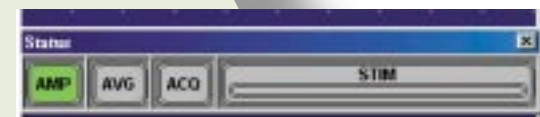
- The new Synergy T series – PC tower-based systems designed for added data storage and networking capability, ideal for the private office and hospital sites
- The new Synergy N series – laptop based systems designed for portability between clinic and office
- The Synergy Suite – T and N combined for ultimate flexibility

TECA Synergy is the only range of EMG/EP instruments that provide consistent software functionality and test protocols from 2 channel nerve conduction studies to 10 channel Evoked Potentials to make your work easier and faster...

## Faster Set Up

- Ergonomically designed cart with height\* and monitor angle adjustment so you can be comfortable while you work
- Color coded connectors\* for speedy and intuitive system set-up
- Impedance check on the amplifier\*\* for rapid electrode integrity assurance
- Quick to change test set-ups on the fly
- Change your test set-ups rapidly, on the fly

\* with EP systems \*\* with 5 and 10 channel amplifiers



## Faster Testing

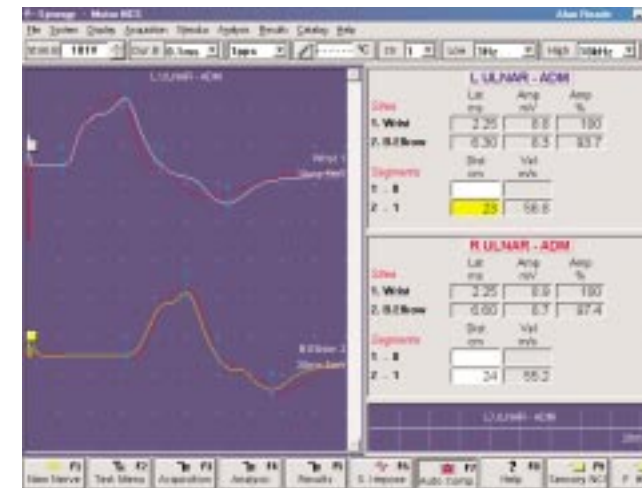
- Fully montagable amplifier because its faster to change montages than electrodes
- Common protocols are stored for speed with Protocol Wizard feature allowing modifications quickly and easily where necessary
- Patient Side Controls mean no more stretching from instrument to patient making your work more comfortable
- Continuous monitor trace alongside acquisition screen allows simple visual checks on signal quality
- Accurate automated marking algorithms saves time placing markers giving quicker results



## Faster data review

- Dual SEP stimulators\* and unique Autocompare function for instant left and right comparisons without unhooking and rehooking up patient
- Unique LivePlay™ feature stores up to 20 seconds of live EMG data so you can replay and analyze again and again
- Full screen view for easier review at the double click of a button

\* on EP systems



## Faster Reporting

- Fast on-line reporting available immediately after completion of investigation
- Microsoft Word based system allows you to customize your reports – you can even add the logo of your clinic or hospital. PowerPoint, spell check, cut and paste are all available should you wish to further enhance the design
- Auto-text for rapid summaries where reporting is standard



with the flexibility you ask for from a complete EMG/EP range...

# TECASynergy - Your choice for 2 channel NCS, EMG and SEP...2 or 5 channel NCS, EMG and EP

The TECA Synergy 2 channel EMG option is available in two configurations – the N2 (notebook based) system for unrivalled portability between clinics and the T2 (tower based) system for added data storage capability

## Synergy N2

- For unrivalled portability, this system consists of just two components: a lightweight laptop and a Patient Interface Unit (PIU)
- The PIU incorporates the amplifier, probe inputs, stimulator and dedicated controls. It can be used patient side for fast testing

## Synergy T2

- The T2 gives all the benefits of the successful Synergy software and the PIU with added data storage capability
- An ergonomically designed compact cart comes as standard
- Deluxe Bipolar Stimulator for patient side NCS testing

## Synergy Suite

For ultimate flexibility, the Synergy Suite includes a notebook, tower and one PIU

When in the office, use the tower and PIU; and when travelling to a remote site, use the notebook and PIU. Store patient data on the tower.



The TECA Synergy 2 or 5 channel option is available in two configurations – the laptop based system for portability between clinics and the tower based system for added data storage capability

## Synergy N2EP and N5EP

- Our 2 or 5 channel EP systems come with all the benefits of the Synergy range in an easily mobile format. A cart is optional.
- The unique 5-channel amplifier allows the ultimate flexibility for combined pattern VEP and ERG recordings
- Built in high quality speakers for loud, clear EMG signals
- Fast recovery amplifiers mean a better response in BAER
- Offers a wide range of VEP stimulus options
- Can interface with and software control external triggers like a VEP monitor
- Unique triple footswitch gives ability to move between Acquisition to Next Site to a programmable function without lifting a finger!
- Ergonomically designed plinth (docking station) and laptop, making it more comfortable to work at
- Key EP connections easily accessible on the side of the plinth (docking station)



- The unique separate control panel means fast and comfortable testing

## Synergy T2EP and T5EP

- All the benefits of the Synergy N2EP or N5EP in a PC based system for added data storage capability
- Flat panel display comes as standard for a lightweight, smaller system
- Comes with an ergonomically designed and highly mobile cart with space for accessories and documents for fast comfortable testing and review



# TECASynergy - Your choice for 10 channel NCS, EMG and EP

The TECA Synergy 10 channel option is available in two configurations – the laptop based system for portability between clinics and the tower based system for added data storage capability

## UNIQUE Synergy N10EP

- The only 10 channel portable EP system for routine EMG/EP comes with all the benefits of the Synergy range in an easily mobile format. A cart is optional.
  - The unique 10-channel amplifier allows the ultimate flexibility for combined pattern VEP and ERG recordings
    - The unique separate control panel means fast and comfortable testing
    - Built in high quality speakers for loud clear EMG signals
    - Fast recovery amplifiers mean a better response in BAER
  - Offers a wide range of VEP stimulus options
    - Can interface with and control external triggers like a VEP monitor
    - Unique triple footswitch gives ability to move between Acquisition to Next Site to a programmable function without lifting a finger!
    - Ergonomically designed plinth (docking station) and laptop
    - Key EP connections are easily accessible on the side of the plinth (docking station)

## Synergy T10EP

- All the benefits of the Synergy N10EP in a PC based system for added data storage capability
- Flat panel display comes as standard for a lighter weight, smaller system
- Comes with an ergonomically designed and highly mobile cart with space for accessories and documents, for fast comfortable testing and review

# TECAAccessories - renowned reliability, quality and performance

## Needle Electrodes



**TECA Disposable MyoJect Needles** for Botox™ therapy and nerve block procedures

Length	Needle diameter (mm)	Lead color	Catalog #
1"	0.30 (30G)	Red	<b>MJT-2530-TP</b>
1"	0.41 (27G)	Yellow	<b>MJT-2527-TP</b>
1.5"	0.46 (26G)	Green	<b>MJT-3726-TP</b>
2"	0.51 (25G)	Blue	<b>MJT-5025-TP</b>
2"	0.71 (22G)	Black	<b>MJT-5022-TP</b>
3"	0.71 (22G)	Purple	<b>MJT-7522-TP</b>

10 Needles per box

## Disposable Subdermal Needles with 5 ft colored lead



Single pouches, 25 per box. 5 Needles each of white, red, blue, green and black leads. 12mm Needle Catalog # **017K103**, 18mm Needle Catalog # **017K105**, 5 multi-colored needles per pouch, 25 needles per box. 12mm Needle Catalog # **017K104**, 18mm Needle Catalog # **017K106**

## Evoked Potentials

### LED Goggles



Ideal for application in IOM and intensive care. Monocular or binocular stimulation can be selected. Goggles are fully adjustable. Catalog # **031D043**

### Gold Cup Electrodes

- Large capacity cup
  - Cast pure silver cup for durability
  - Thick gold plating ensures reliability of gold version
  - Liquid tight, extra strong strain relief
  - Autoclavable
- 10mm diameter, with 2mm hole. Insulated, 4 ft leads in assorted colors, terminating in touchproof plugs. Pack of 10. Catalog # **6028-TP**

### Unshielded Headphones



Unshielded TDH49P audiometric headphones with 10ft cable and 180° 5-pin DIN plug. Catalog # **040K021**

### Acoustically Shielded Headphones



Acoustically shielded TDH49P audiometric headphones with 10 ft cable and 180° 5-pin DIN plug. Catalog # **040K022**

### VEP Monitor

Controlled using Synergy software, for fast easy testing. Catalog # **900X158**

### Intra-Auricular Headset



This headset is a stereo version of the Earphone (**S51013**). Due to its light weight and small size, it is ideal for use in IOM, as well as auditory testing of children and neonates. For use with eartips **51019 - 51023**. 5 ft lead terminating in 180° 5-pin DIN plug. Catalog # **040K024**

### Temperature Probe

Record directly into the Synergy report. Catalog # Reusable **0315017** Disposable **900X115+0315018**

## TECA Disposable Concentric Needles

Length	Needle diameter (mm)	Hub color	Recording area (mm <sup>2</sup> )	Catalog #
1"	0.3 (30G)	Red	0.03	<b>N53153</b>
1"	0.46 (26G)	Yellow	0.07	<b>N53155</b>
1.5"	0.46 (26G)	Green	0.07	<b>N53156</b>
2"	0.46 (26G)	Blue	0.07	<b>N53158</b>
3"	0.64 (23G)	Violet	0.07	<b>N53159</b>
4.8"	0.64 (23G)	Grey	0.07	<b>N53160</b>

25 per box

## TECA Disposable Monopolar Needles

Length	Needle diameter (mm)	Hub color	Recording area (mm <sup>2</sup> )	Catalog #
1"	0.36 (28G)	Red	0.28	<b>902-DMF25-TP</b>
1"	0.46 (26G)	Yellow	0.34	<b>902-DMG25-TP</b>
1.5"	0.36 (28G)	Orange	0.28	<b>902-DMF37-TP</b>
1.5"	0.46 (26G)	Green	0.34	<b>902-DMG37-TP</b>
2"	0.46 (26G)	Blue	0.34	<b>902-DMG50-TP</b>
3"*	0.46 (26G)	Violet	0.34	<b>902-DMG75-TP</b>

48 per box. \*Note: Catalog # **902-DMG75-TP** in boxes of 24 electrodes

## Ground Electrodes

### Disposable Surface Electrodes with lead attached

Disposable surface stimulating and recording electrodes with colored leads. 4 per pack, 12 packs per box. Catalog # **900X156**