

# Vision Rehabilitation System

for

## Neurological Vision Impairment



The NVT Vision Rehabilitation System aims to promote independent living for people with a Neurological Vision Impairment by:

- assessment of visual and perceptual deficits that impact on activities of daily living
- training in compensatory scanning strategies
- transfer of scanning skills to Mobility in a dynamic environment

This is a unique programme of interest to all staff working in the area of rehabilitation of Acquired Brain Injury

## NVT SCANNING DEVICE

The **Neuro Vision Technology (NVT) Scanning Device** is part of a unique training programme for the assessment and training of people with a Neurological Vision Impairment.

The programme consists of training Rehabilitation Instructors in proven techniques involving the **NVT Scanning Device** and standard Orientation and Mobility methodology.

The programme objectives are to train a person with Neurological Vision Impairment to maximise the use of their remaining vision and to become as independent as possible.

The **NVT Scanning Device** is portable and training can be carried out in the Acute Hospital, Rehabilitation Hospital or Client Home.

This product is of interest to:

- Rehabilitation Practitioners
- Ophthalmologists
- Optometrists
- Occupational Therapists
- Orthoptists
- Physiotherapists
- Speech Pathologists
- General Practitioners
- Neurologists
- Teachers
- Family
- Carers
- Patients

## PROGRAMME GOALS

The **NVT professional training programme provides:**

- An understanding of the effects of an Acquired Brain Injury on the neurological vision system.
- An understanding of additional cognitive deficits associated with an Acquired Brain Injury and their implications for safe, independent mobility.
- Training in the use of the **NVT Scanning Device** as an assessment tool for determining the presence of Homonymous Hemianopias and or visuo-spatial neglect.
- A programme of compensatory scanning exercises that will enhance the client's functional use of residual vision.
- Skills that will enable the Rehabilitation Instructor to transfer these scanning strategies to the client's home and community setting.
- Skills that will enable the Rehabilitation Instructor to accurately determine the need for a mobility aid and /or restrictions to travel limits.
- Techniques and expertise to promote the service.

## TRAINING PROGRAMME

On completion of a **NVT training programme** the Rehabilitation Instructor will be able to:

### Assess Client

Evaluate current status of the client.

### Construct an Intervention Plan

Develop an intervention plan in with the client, caregiver and/or referral source.

Develop goals based on cognitive and functional deficits.

Develop short and long term goals for institutional, home and community settings.

### Provide Intervention by:

Training on the **NVT Scanning Device**.  
Training in a controlled environment.  
Transfer of compensatory scanning technique to:

- Home environment
- Complex environments

### Provide safe mobility for:

- Shopping
- Using public transport
- Interacting in city environments

### Evaluate Intervention when:

- Safe mobility goals are attained
- A plateau has been reached
- Restricted by other factors

### Client Follow-Up

Follow-up occurs three months post training and may also be initiated when living situation, workplace or health status have changed.

## THE PACKAGE

The package contains:

- **NVT Scanning Device**
- **Software for the delivery and management of client Assessment, Training and Follow-up therapy programmes.**
- **Training manual and workbook**
- **Comprehensive staff training programme**
- **Supervision**
- **Follow-up**
- **Certificate of competency**
- **Consultancy**
- **Technical support**

## PHYSICAL SPECIFICATIONS

### Laptop

HP nx6100, 30.3 (H) x 328.6 (W) x 267 (D) mm, 2.75 kg with Universal Power Supply: 90 – 264 VAC, 50/60 Hz.

### Light Box

NVT LB100, 150 (H) x 1590 (W) x 50 (D) mm (Extended), 2.7 kg 150 (H) x 820 (W) x 115 (D) mm (Folded), Fuses M205 T500mA.

### Universal Power Supply

Powerbox TR36A12 (12 Volt 2.5A), 50 (H) x 110 (D) x 20 (H) mm, 200 gm, 90 – 264 VAC 50/60 Hz, Input Connector - IEC320/C8, DC Output Connector - 2.5 mm (ID) x 5.5 mm (OD), 9.5 mm (L), Polarity - Centre +ve.

### Tripod

Monfrotto 725B, Weight - 1.4 kg.

### Soft Carry Case

NVT Mk V, 270 (W) x 270 (H) x 870 (L) mm, 2 kg.

### Spares Kit

Red, Orange, Green, White E10 T10x28mm 24 Volt LED Lamp, Lamp Extraction Tool, Laptop to LB100 Interface Cable, Fuses.

## INFORMATION

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