Addressing Simple to Complex mounting Needs – What’s New!

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Poll

Settings: School, Rehab, Vocational, Family

Who is responsible for mounting in your setting?

How familiar are you with mounting?
Optimizing Device Positioning

“Optimal” varies (consider the whole picture)
- From person to person
- Their needs and specific considerations
- Impacts access, mobility, health, independence

Holistic approach
- Accommodate different devices and activities
- Multiple devices (concurrent access)
- Different operating positions
- Across environments (bed, w/c, table, work)
- Changes as needs change
Types of Mounts

Simple: Basic support

Added Features: Movable, locking

High Tech: Powered
Light Duty—limited weight and holding capacity
Movable Mounts

NEW DESIGN!

Unique mechanisms allow users to independently manipulate the attached device with great ease and flexibility.

NEW!

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Static vs. Movable

Static Mount
- Impede transfers
- Obstructs vision
- Single operating position
- Most can not be moved independently

Movable Mount
- Move independently
- Set multiple lock positions, changes with ability
- Safety - visual or physical access, reduce tipping hazard
- Use multiple devices
NEW Powered Mount
Needs assessment: Ask Questions and Consider the Possibilities

Needs identification
- What do they need/want to access?
- Where do they need it?
- What else do they want to do? (no need to limit them to 1 device)
- How do they currently address this need?
- What is/isn’t working for them?
- Do they need to remove their mount/device?
- Describe your ideal set-up
- Least restrictive solution
- Progressive disease - think about future needs
NEW! Simple Mounts

Small Tray 3.75” x 7”
Phones, remotes, small devices

Large Tray 11.4” x 9”
Medium devices, eating, writing and reading
Swivel
Lays Horizontal

Large tray has off-set option to adjust depth
Vertical Tilt
Folds Down for Storage
Customizable Support Edges

- Bottom placement
- Corner placement
- Bottom and side placement
- Attach 2 edges to make channel
Double Decker

COMBINE WITH A DUAL OR SINGLE ARM
Options

Dual Arm

Single Arm

Tilt’n Turner

Mount’n Tilter
Moving The Arm

1. **Press** hoop. Unlocks both shoulder and elbow.

2. **Move** both arms at once. Use hoop to steer.

3. **Let up** on the hoop. Continue moving arms to find a memory lock position.
Rotate The Wrist

1. Press PADDLE to unlock wrist. Wrist is momentarily unlocked at that position.

2. Move it! Wrist will remain unlocked until it finds memory lock position.

One-handed operation!
Adjust The Tilt

1. **Unlock**: move tilt lever to the right.

2. **Adjust tilt angle**: push down or pull up on the device.

3. **Lock**: move tilt lever to the left.

*High or Low resistance hinge available.*

High resistance hinge recommended for large devices 5 pounds or heavier.

Slight forward tilt for eye gaze access
Customize Lock Positions

To set one or more lock positions, push lock setter(s) down. Up to unlock*.

*Setters can only flip up when NOT locked in position
Quick Release Plate (QRP)

The QRP is needed to attach a device or tray to the Mount’n Mover.

The QRP makes attaching or swapping out devices a snap!
Table Mounts

Table Clamp

Mount’n Tilter

Stand +90
Device & Tray Attachment Options

- iTab Tray
- 12” x 12” Tray
- Universal Rotator
- Stand +90
- Camera
- Laptop Tray
- Tray with Lip
- Phone
- Tablet & Keyboard
- Device Plates
One Mount - Many Uses

Wheelchair, bed, walker, stander, table and floor stand!
School Access

- Universal Design for classroom, library or workstation
- Access many devices from anywhere
- Secures device from damage
- Adjustable for good ergonomics
Special Education Classrooms

Virginia Beach City Public Schools

- 30 Mount’n Mover workstations in special education classrooms - uses floor stand for easy movement through the room
- Adjusts quickly for physical accommodation
- Elevated iPads position for small group instructions
- Access for all - even lying on the floor
- Offer security to the devices - safe, less damage, protects investment

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Library

Exploration Station, Providence and Cranston Public Library Cranston Rhode Island

Grant from Institute of Museum and Library Services called ALL ACCESS

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All Access AT Exploration Station

Designed to provide on-site exploration of the scope of accessibility features available to the public in the libraries

- Mobile Presentation and Storage Cabinet
- Computers:
  - 1 iPad (current model)
  - 1 PC laptop

Equipment & Software:
- External monitor (same as used in library computer lab)
- 23" monitor (for demos)
- External monitor arm (multi-position)
- External keyboard (same as in library computer lab)

- Standard mouse
- Selection of alternative mice:
  - Microsoft Wireless Mouse
  - Trackball Mouse
- Alternate keyboard (wireless)
- Large print keycaps (multiple sets)
- Bluetooth switch interface and Jelly Bean switch
- Mount'n Mover accessible mount
- Headphones, 2 pairs
- Freedom Scientific OPENBOOK Scan and Read software
- Freedom Scientific PEARL Scan Camera
Improve Posture

Positioning iPad at eye level improved posture.
Mount Tilts With Chair

Impact using the Mount’n Mover:

- Does her work without getting fatigued
- School activities: “Easier for everyone!”
- Device positioning varies
Move For Visual Access

Rotates for visual access when driving!

Access device when standing!
Double Decker
Multipurpose

Easily swap out devices or trays!
Obed

The Mount’n Mover supports Obed’s trumpet so he can play!
"I love how my Mount-n-Mover allows me to access my laptop in the wide variety of environments in which I work. It is sturdy and adapts easily if my needs change. Having the Mount-n-Mover has increased my independence and been a lifesaver for me."    Dawn
Jack
Anthony

PRC Tech Support, uses ECO2, Accent 1200, Accent 1400, iPad

Wanted something he could easily navigate independently

Provided great flexibility, independence and even confidence

Mount’n Tilter on desk for generating emails, word documents, work stuff
Anthony

Moves to the side to pull up to the table, read menu, transfer, use restroom

Fine motor improved since using iPhone

Protects device when working out at the gym and allows him to communicate with personal Trainer
“Overcoming obstacles is the stuff of being a disabled person, and so when the mountain seems ever harder to climb, we look at ways of moving the mountain a little closer which, for most of us, means we can look at ways of making life easier in all kinds of different ways”.

“One of the things the Mount’n Mover does is give you back some of the spontaneity that life as a disabled person doesn’t always allow. With the Mount’n Mover the emphasis is very much on the product meeting the needs of the consumer”.

Rosie Moriarty-Simmonds OBE
Consultant, Writer, Artist, Presenter, Photographer

http://fourfingersandthirteentoes.wordpress.com/
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Greta - Independence!

Greta places her order independently
Transfer from Chair to Bed
Ryan moves his device to the side allowing him to turn on the faucet for a drink. Move instead of remove device – protects from damage.
Access Beyond the Chair

Swing mount around to still access device from chair or bed. Can eliminate need for additional bed or table mount!
Eye Gaze
Optimizing Position for Eye Gaze

• Positioning is critical
• Need consistent placement of device
• As position changes throughout the day - so must the mount
• Tilt and rotation adjustments
Sophia needed to use eye gaze for access to her communication device while in bed and in her chair.

**Solution:** Floor Stand, Dual Arm, Stand +90 with Universal Rotator
Grows with Client to Meet Changing Needs

Tools for life!
Meet Gae
ALS - Mount Changes as Abilities Change

Gae - first mount user!

• Positioning reduces fatigue
• Transfer and use the toilet
• Reboots device, adjusts for glare
• Visual access for driving, TV
• Access to tables and sink
• Moves to exercise her legs
• Moves to side for photos
Videos

Mountnmover.com

Gae - ALS
Rick - Spinal Cord Injury
Sophia - SMA, Eye Gaze
Medical Justifications

Need to access from a tilted position
Improved visual access for driving
Positioning for access from more than one position (direct and eye gaze)
Able to quickly move the device
Hygiene: able to use a sink and toilet
Positioning changes, so device must change
Must adapt as abilities change (ALS, MD...)
Safety - keep chair from tipping

See: www.mountnmover.com/evaluate-buy/funding/
Health Benefits

Optimal Positioning and Access Provides:

• Ability to exercise without restrictions
• Improved range of motion & fine motor dexterity
• Improved access to sink and toilet (hygiene)
• Improved ability to eat (up to a table or positioning of tray)
• Improved ergonomics; less pain
• Ability to change positioning based on the activity
• Better head control due to device positioning (height & tilt)
• Less fatigue
Letter of Necessity

- Provides independence through positioning and ease of use
- Allows for appropriate communication device position while the chair is tilted.
- Provides (name) continuous access to their communication device in the event of an emergency
- Decreases tipping hazard
- Improved visual access for driving/wheeling
- Customized lock positions avoids caregiver guessing and frustration
- Provides access to technology/communication 24/7 in case of emergency
Psychosocial Benefits Of A Moveable Mount Reported

Study by Ithaca College OT Department

PIADS: How are you affected by the Mount’ n Mover?
Adam Kinney, MS and Lynn Gitlow, PhD, OTR/L, ATP

“A Consumer-Centered Approach to Evaluating Assistive Technology Usability Outcomes"

June 2015 issue of American Occupational Therapy Association Special Interest Section on Technology.

Increase:
- Competence
- Adaptability
- Self esteem

Decrease:
- Frustration
- Embarrassment
- Confusion

Impacted more than device access, unrelated tasks were easier to perform. Tasks included: transferring, answering calls, socializing, feeding, shopping, and adaptive baseball.
Resources - Therapist Page

https://mountnmover.com/community/therapists

- Funding information
- Research
- Videos
- Reviews
- And more!
NEW Pow!r Mount

Hybrid configurations: Mount’n Mover + Pow!r Joint

Power Tilt, Shoulder, Height Modules
Single Joint Power

- Tilt device – prevent glare, drive
- Move to the side to transfer
- Move close for visual or physical access
- Increase independence
Direct, Single or Dual Switch Access

End Cap: access, switches, power, and control
Built-in keypad
No app required for Single joints/Hybrids
Switches plug into End Cap
Switch 1: Toggles direction
Switch 2: Goes to 2 Target positions
Two switches: Directional

Power options
Built-in 12v lead acid battery
Wheelchair battery
AC-DC converter/power supply
Case Study: Scott

Mayo clinicians and BlueSky Designs

Overview

◦ Tetraparesis due to SMA
◦ Lives alone in the community
◦ Enjoys playing games, watching movies and socializing with friends on the computer
◦ Need for power mount:
  ◦ Create opportunity to self suction oral secretions while home alone
Scott’s Computer Workstation
Challenges

Limited care time - set up at desk in power wheelchair

Decrease risk for aspiration pneumonia, choking and respiratory infections

Thumb and Index finger flexion, extension, minimal pronation/supination on right hand, slight pronation on left hand

Using voice increased saliva, gurgle sound
Solution: Independent Suctioning via a Hybrid Mount with Power Shoulder

Power shoulder joint
Brings yankauer into position with thumb and MicroLite switch
Actuates suction with index finger and 2nd switch
Attaches tube to plate with PVC angle and clips
Final Setup

Kensington Expert Trackball
MicroLite Switches (2)
PowerLink 2
Hybrid Mount with Power Shoulder
Yankauer
The Pow!r Mount sucks —thank goodness! 1:10
Scott: Case Study Outcomes

Quantitative

◦ Decrease in frequency of respiratory illness

Qualitative

◦ Patient-Specific Functional Scale
  ◦ Score increased from 0 to 10 with self suctioning independence

◦ Decreased anxiety
  ◦ “I would limit what I would do because I had a feeling of drowning”

◦ Increased engagement with friends
  ◦ “I actually talk to people a lot on the computer and now I can talk the whole time...my voice doesn’t get gurgly”
Pow'r Mount
by BlueSky Designs

Powerfully Independent!

Developed with the support of the App Factory
Pow!r Mount Multiple Joints

Multi-joint systems: all joints are powered
Pow!r Mount Multiple Joints

Control options:

• Switches
• Touch display
• Accessible app
  • Easy and efficient (target positions)
  • Independence (adjust individual joints)
  • Customizable (change devices, controls, preferences, different configurations)
• Android and iOS
• Touch with finger or stylus tip
• Switches: Timed scan or Step scan
Pow!r Mount App’s Main Screens

Targets—to quickly move to favorite positions
Adjust—to make adjustments to individual joints
Groups—Sets of targets for devices or environments
Target and Adjust Control

Group Target positions (4) per Device/Environment

Move each power module individually
Settings

Scan rate

Audio feedback

Visual contrast

Simplify screen
  ◦ What displays
  ◦ What it scans through
  ◦ Access permissions
Going between two Target Positions

Transfer and use position
App Access Modes & Input

App access modes include:
- Touch display (phones)
- Single switch: timed Scan
- Single switch: Step Scan
- Dual Switch: Step, Select

App input options include:
- Switches: single, dual, wireless
- Wheelchair controls: joystick, head array, etc
- Switches plug into End Cap
Non-App Switch control—target positions 1:15

Pow'r Mount Direct Control:

Single Switch, Presets
App switch control—single switch, step scan 1:55

Pow!r Mount App
Switch Control:

Single Switch,
Step Scan
Who benefits?

People with mobility and upper extremity limitations
High level Spinal Cord Injuries
ALS
Muscular Dystrophy
Cerebral Palsy
Spinal Muscular Atrophy
Their family members and staff
How do they benefit?

• Increased Independence: eating, drinking, self care, communication, activities
• Move something to the side to transfer: toileting, pull up to a table, bed
• Change the tilt angle of a device: visual access, reduce glare, read a book
• Psychological well-being
• Improved access: create a Lazy Susan to reach multiple devices
• Photography
• Attach: trays, speech devices, camera, laptop, suction machine, more!
In the works: Control the Pow!r Mount AND Things!
Evaluation Kits

Eval Kit includes Case

Device Plate Attachment Set

Table Eval Kit
BlueSky Dream Team
Thank you!

Questions and Tech support BlueSky Designs:

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