



# STISIM Drive for Occupational Therapy



STISIM Drive® for Occupational Therapists (STISIM Drive®-OT) is a driving simulation system specifically designed for medical and therapy applications. STISIM Drive®-OT has been engineered to facilitate the diagnosis, evaluation, treatment, and rehabilitation process of at need patients. At the core of STISIM Drive®-OT is the STISIM Drive® driving simulator engine. The software's main feature is its adaptability to clinical applications that benefit from driving simulation. STISIM Drive®-OT has a novel interface that allows the client to create a database that tracks the treatment routine, driving results, and rehabilitation progress for each selected patient. STISIM Drive®-OT includes a large portfolio of pre-designed scenarios from which the client can select an applicable drive beneficial to the intended evaluation procedure. Scenarios are divided into the following twelve skill sets: Assessment Drives; Familiarization Drives; Reaction Times; Vehicle Control; Vehicle Following and Divided Attention; Memory, Planning and Navigation; Passing, Turning and Merging, Hazard Perception; Road Tests and Challenging Drives; Night Drives; Driving Skills; and Specialty Drives. Each of these categories is sub-divided into Easy, Moderate, and Difficult scenario versions.

## System Features:

- More than 90 diverse driving scenarios specifically designed for OT assessment and evaluation
- Custom OT specific interface that allows drives to be accessed quickly
- Customized reports that present driver performance metrics and data specific to the completed drive
- Database features that allow the client to easily track and review patient progress
- Playback features that allow the client to review drives with the patient
- Multiple system configurations to meet budget constraints
- Large, diverse, and well-respected client base
- More than four decades of research and knowledge by a world leader in driving simulation technology
- On-site installation and training (within the Continental United States, additional charges may apply to other areas)
- Shipping and handling (within the Continental United States, additional charges may apply to other areas)
- First year's support and warranties

## System Benefits:

- Assess and work with patients on an ecologically valid task
- Eliminate the risks of on-road driving and safely evaluate high risk drivers
- Test multiple modalities at once within a driving context
- Achieve objective, accurate, and repeatable performance measurements
- Easy management and practical operation
- Perform cost effective assessment and training sessions
- Eliminates weather and other conditions that can effect on-road drives

# STISIM Drive®-OT User Interface Features:

## Database Functions:

STISIM Drive for Occupational Therapists

All Patients

Patient ID	First Name	Last Name	Comments
1	Spiderman	Peter Parker	With great power comes great responsibility!

Buttons: Add New Patient, Delete Existing Patient, Edit Comments, Continue >>

Search a Column

STISIM DRIVE

STISIM Drive for Occupational Therapists

All Patients > Peter Parker (Spiderman)

Run ID	Date	Time	Skill Set	Scenario	Custom	Visibility	Vehicle	Notes
1	27	5/27/2020	1:48:23 PM	Introduction and Warm-U...	Divided Attention	Default	2500	Crosso...
2	26	5/27/2020	1:45:19 PM	Introduction and Warm-U...	Divided Attention	Default	2500	Crosso...
3	25	5/20/2020	4:24:39 PM	Introduction and Warm-U...	Divided Attention	Default	2500	SUV
4	24	5/20/2020	4:23:34 PM	Introduction and Warm-U...	Divided Attention	Default	2500	Sedan
5	23	5/20/2020	4:22:38 PM	Introduction and Warm-U...	Divided Attention	Default	2500	Coupe
6	22	5/20/2020	4:21:17 PM	Introduction and Warm-U...	Divided Attention	Default	2500	Crosso...
7	21	5/20/2020	11:20:44 AM	Introduction and Warm-U...	Divided Attention	Default	2500	Crosso...
8	20	5/20/2020	10:28:39 AM	Introduction and Warm-U...	Divided Attention	Default	2500	Crosso...
9	19	5/13/2020	7:41:43 AM	Introduction / Warm-Up Dr...	Complete Practice Drive	Clear	2500	Veheil...
10	18	5/12/2020	9:37:15 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
11	17	5/12/2020	7:59:56 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
12	16	5/12/2020	7:55:13 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
13	15	5/12/2020	7:53:42 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
14	14	5/12/2020	7:52:24 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
15	13	5/12/2020	7:51:06 AM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
16	12	5/12/2020	6:22:44 AM	Introduction / Warm-Up Dr...	Negotiating Curves	Clear	2500	Veheil...
17	11	5/11/2020	5:50:12 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...
18	10	5/11/2020	5:49:35 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	200	Veheil...
19	9	5/11/2020	5:46:48 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	200	Veheil...
20	8	5/11/2020	5:44:44 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	200	Veheil...
21	7	5/11/2020	5:40:33 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...
22	6	5/11/2020	5:10:20 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...
23	5	5/11/2020	5:09:28 PM	Introduction / Warm-Up Dr...	Stop Signs	Clear	2500	Veheil...
24	4	5/11/2020	5:07:04 PM	Introduction / Warm-Up Dr...	Negotiating Curves	Clear	2500	Veheil...
25	3	5/11/2020	5:03:46 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...
26	2	5/11/2020	5:00:03 PM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...
27	1	5/11/2020	10:56:35 AM	Introduction / Warm-Up Dr...	Divided Attention	Clear	2500	Veheil...

Buttons: New Drive, Driving Results, Playback Drive, Drive Again

Upgrade Database

STISIM DRIVE

## Drive Selection:

**STISIM Drive for Occupational Therapists**

Navigation: All Patients > Peter Parker [Spiderman] > New Drive

**Skill Set Category**

- Assessment Drives
- Introduction and Warm-Up Drives
- Reaction Times
- Vehicle Control
- Vehicle Following and Divided Attention
- Memory, Planning, and Navigation
- Passing, Turning, and Merging
- Hazard Perception
- Road Tests and Challenging Drives
- Night Drives
- Driving Skills
- Specialty Drives

**Available Drives**

- Warm Up (Selected)
- Pedal Reaction Time
- Wide Field Divided Attention
- Basic Vehicle Control
- Metro Drive
- Challenge Drive

**Scenario Description**

Difficulty Level: Easy  
 Approximate Drive Length: 2.4 Miles  
 Approximate Drive Time: 3 Minutes

**Vehicle Type**

- Crossover
- Coupe
- Sedan
- SUV

**Roadway Condition**

- Clear (2500 feet visibility)
- Fog (700 feet visibility)
- Heavy Fog (200 feet visibility)

**Custom Options**

Default

**Start Drive**

**STISIM DRIVE**

## Reporting Features:

**STISIM Drive for Occupational Therapists**

Navigation: All Patients > Peter Parker [Spiderman] > New Drive > Simulation Results

**Simulation Results:**

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Date of the Drive	6/5/2020
Time of the Drive	1:50:26 PM
Participant ID	Spiderman
Skill Set	Vehicle Control
Scenario that was driven	Construction Zone
Roadway conditions	Default

**Results Summary**

**Driver Performance**

Time to complete drive (seconds)	66.62
Total number of off road crashes	0
Total number of collisions with vehicles and other roadway objects	0
Total number of collisions with pedestrians and animals	0
Total number of traffic light tickets	0
Total number of stop sign tickets	0
Total number of times over the posted speed limit	0
Percentage of time over the posted speed limit	0.00
Total number of times the center line was crossed	3
Total number of times the driver went off the road	2
Percentage of time out of lanes	16.05

**Intersection Turns**

Number of correctly negotiated intersections	0
Number of incorrectly negotiated intersections	0

**Turn Signal Usage**

Overall turn signal usage	Poor
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**Driving in a Construction Zone:**

**STISIM DRIVE**

## Sample Performance Measures:

Accident Counts:	Vehicle, pedestrian, obstacles, off-road
Brake and Accelerator:	Speeding behavior, reaction time, time to collision, tailgating
Steering and Handling:	Lane position and deviation, centerline and edge crossings
Driver Compliance/Attention:	Signal lights, signs, turning, divided attention, map following, math tasks

## Driving Skills Assessed:

Reaction times / Time to collision  
Psychomotor functioning / Vehicle control / Fatigue  
Memory / Planning / Navigation  
Passing / Gap Judgment / Merging  
Visual and audio perception  
Divided attention  
Cognition  
Hazard perception  
Executive functioning  
Decision making  
Others ....

## Sample Scenarios:



## Simulator Hardware Options:

**M2000-OT:**



**M3000-OT:**

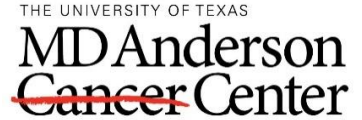


**M4000-OT:**

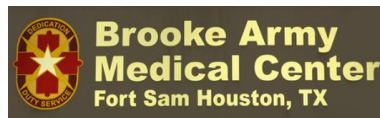




**Clients:**



an affiliation of BJC HealthCare and Encompass Health



## About Systems Technology, Incorporated:

Systems Technology, Incorporated (STI) is an industry and world leader in the driving simulation market. With more than 60 years' experience in engineering, applied research, experimental development, and consulting services with a focus in the aerospace, military, medical and automotive industries; STI specializes in the interaction between human beings and machines, and has evaluated driver behavior for more than 40 years. STI is superbly qualified to help design the driving component for your clinical needs.

Visit us at [www.stisimdrive.com](http://www.stisimdrive.com) , or call us at 310-679-2281.

