



ABN 43 064 478 842

➤ 231 osborne avenue clayton south, vic 3169  
PO box 1548, clayton south, vic 3169  
t 03 9265 7400 f 03 9558 0875  
freecall 1800 680 680  
[www.tmgtestequipment.com.au](http://www.tmgtestequipment.com.au)

## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the “Click-to-Call” logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



Click-to-Call  
TMG Now



### Disclaimer:

All trademarks appearing within this PDF are trademarks of their respective owners.



# Reflector 2200

Until recently, network equipment manufacturers and service providers only had one real option for assessing their products' capacity to withstand high-volume Internet traffic: they had to build complex application-layer infrastructures in the lab using large numbers of servers. But creating tests that simulate realistic Internet environments can take days—or even weeks—and still not provide full confidence that products will hold up under real-world conditions.

Spirent offers a better way. Reflector 2200™ is a single rack-mountable appliance that realistically simulates the behavior of large Web, application, and data server environments. Combined with a capacity assessment appliance such as Spirent's Avalanche 2200™, this cost-effective and intuitive system provides a total solution for simulating the world's largest web infrastructures.

By generating accurate and consistent HTTP responses to Avalanche 2200's high volume of realistic Internet user requests, Reflector 2200 tests to capacity any equipment or network you connect between the two systems. Its protocol-level accuracy helps you assure the stability and performance of switches, routers, load balancers, firewalls, caches and other Layer 4–7 devices.

Reflector 2200 was designed with versatility in mind. For network equipment manufacturers, Reflector 2200 provides a fast, powerful way to validate and tune equipment performance. With Avalanche 2200, the system is ideal for helping infrastructure service providers validate, enforce and maintain service level agreements (SLAs). Reflector 2200 also gives high-traffic network infrastructure architects a better way to evaluate equipment vendor performance claims and simplify procurement processes.

Reflector 2200 eliminates the need to build large and cumbersome test-bed application infrastructures. It lets you easily reconfigure your test set-up in minutes to simulate different Web or data environments. The system can dramatically reduce your investments in equipment, physical space, power, and personnel. Above all, it gives you newfound confidence that your products and services will perform well in a customer environment.

## Unmatched performance, accuracy and ease.

Reflector 2200 gives you the power to simulate the world's largest Web sites, with the wire-speed and data-rate performance you need for thorough load testing. This single, well-designed solution replaces multiple racks of servers, delivering the highest degree of server realism, accuracy and performance in very little space. Its intuitive controls and quick test set-up let you create virtual Web, FTP, or streaming server clusters in as little as 15 minutes or less. You can access Reflector

2200 directly from a desktop browser to set up tests, review feedback in real time, and easily reconfigure test parameters.

## Warranty and support backed by commitment.

Reflector 2200 comes with comprehensive warranty, maintenance, and support packages, as well as Spirent's full commitment to helping you get the most from our innovative technology.

## About Spirent.

At Spirent, we want to make the Internet the place it was meant to be: scalable, robust and efficient. To that end, we offer powerful yet easy-to-use solutions for real-world capacity assessment of network equipment, applications and infrastructures. Many of the world's leading corporations rely on Spirent appliances to ensure that their products and services will excel under real-world conditions with millions of users.



*Reflector 2200 allows you to achieve unprecedented flexibility in the way you test your systems, whether it is a complete network infrastructure or a particular device. Reflector 2200, in conjunction with Avalanche 2200, lets you obtain real world traffic results without incurring real world costs.*

**Spirent  
Communications**  
1175 Borregas Avenue  
Sunnyvale, CA 94089  
Tel: 408-752-7100  
Fax: 408-752-7101  
[www.spirentcom.com/L4-7](http://www.spirentcom.com/L4-7)



Analyze | Assure | Accelerate™

## Reflector 2200 Specifications.

### Integrated Hardware and Software

- 2U, 19-inch rack-mountable Web application infrastructure emulation appliance.

### Intuitive Operation

- Real-time statistics provide instant feedback on equipment and infrastructure performance.
- Easy-to-use Web-based GUI facilitates rapid creation of large multi-tier Web application infrastructures.

### High Performance

- Able to manage 1 million open connections.
- Handles in excess of 30,000 requests per second (HTTP 1.0 with no persistence) and over 50,000 requests per second (HTTP 1.1 with persistence).
- Handles in excess of 10,000 concurrent streams.

### Realistic and Accurate Network Application Infrastructure Emulation

- Virtual server creation with control over server characteristics including:
  - Protocols: HTTP/1.0, HTTP/1.1, FTP, standards-based RTSP/RTP (QuickTime), SSL.
  - Server headers.
  - IP addresses.
- Detailed simulation of transactions that provide control over:
  - Size of returned data with configurable size distributions.
  - MIME type of returned data.
  - Latency of the request.
  - Application status codes returned.
  - Embedded text within returned data.
  - Last modified and expires header.
- Responds to both static and dynamic URL requests.

## Physical Specifications.

### Dimensions

- 3.485"H x 15.53"W x 18.375"D
- (fits standard 19" rack, 2U high)

### Weight

- 22 lbs. (10 kg)

### Operating Environment

- 5°C-40°C

### Non-Operating Environment

- 0°C-50°C

### Power Requirements

- 115-230V, 50/60 HZ

### Maximum Power Consumption

- 400 watts

### Network Interfaces

- 10/100BASE-T admin interface

### Choice of test interfaces:

- 4 10/100BASE-T (FastE)
- 8 10/100BASE-T (FastE)
- 1 1000BASE-SX (GigE)
- 2 1000BASE-SX (GigE)

### Regulatory Approvals

- FCC Class A
- CE
- UL-1950
- GS Mark