

# Sun Ray™ 270 Virtual Display Client

A Desktop Solution for the Network Era



## Highlights

### Affordable

- Manage thousands of desktops with just a few system administrators
- Virtually eliminate costs of client virus attacks

### Secure

- Centralize data and applications for easier back-up, greater security, and IP protection
- Protect intellectual property by eliminating insecure PC storage or removable media

### Flexible

- Display Microsoft Windows, Linux, or Solaris™ OS desktops
- Upgrade applications on thousands of desktops in hours or days, not weeks or months
- “Hot Desk” from office to conference room to home



Sun Ray™ virtual display clients provide customers with an interoperable desktop computing solution that reduces the maintenance, upgrading, and operational costs associated with most desktop environments. The Sun Ray 270 virtual display client is an all-in-one unit that includes a brilliant, 17-inch flat panel monitor. Its compact design and flexible Video Electronics Standards Association (VESA) mounting options make the Sun Ray 270 particularly well suited for space-constrained environments such as call centers, health care, finance, service providers, and education.

### Sun Ray overview

Zero-administration Sun Ray virtual display clients enable access to applications on virtually any platform — the Solaris™ Operating System, Java™ technology, Linux, UNIX®, Microsoft Windows, AS/400, and mainframes. Sun Ray clients differ from complex PCs and thin clients with embedded operating systems, because Sun Ray clients have no local operating system (such as Windows XP Embedded or Windows CE) to manage and administer.

Sun Ray architecture consists of two types of components: the Sun Ray virtual display clients and Sun Ray Software.

The Sun Ray 270 virtual display client requires no desktop administration. Unlike complex Microsoft Windows or Embedded Linux-based thin clients and PCs, Sun Ray clients do not need to be upgraded when new applications are introduced or more computing power is required. Users can access their sessions from any Sun Ray client on the local area network (LAN) or wide area network (WAN). The user simply inserts a smart card into any available Sun Ray client to instantaneously access an existing session.

Sun Ray Software provides user authentication and encryption between server and client, as well as user session management. It not only enhances security, but also helps reduce the

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complexity and administration of IT environments. Sun Ray Software provides automatic load balancing, optimizing performance by distributing sessions across servers in the group. Load balancing takes into account each server's load and capacity (number and speed of its CPUs), so that larger or less heavily loaded servers bear more of the load. In addition, Sun Ray Software enables Sun Ray clients to be connected to a LAN or WAN.

### Sun Ray 270

Sun Ray 270 virtual display clients are plug-and-play devices that can be easily connected to any Sun Ray environment. No costly server, client, or software upgrades are necessary, as these new clients work well with all past and current versions of Sun Ray Software. This provides tremendous investment protection for Sun Ray customers.

The Sun Ray 270 all-in-one virtual display client integrates Sun Ray functionality with a 17-inch, flat-panel display for a sleek, ergonomic design. The compact unit is perfect for tight desktop spaces. With four USB ports and two serial ports, the Sun Ray 270 virtual display client is also ideal for situations that require legacy peripherals. A projector port makes this unit the right choice for conference rooms, allowing presenters to bring a smart card, rather than a laptop. An additional port for PC displays is included.

When coupled with Sun Ray Software 4, the Sun Ray 270 virtual display client interoperates with Microsoft applications better than ever before. Sun now offers a fully licensed Remote Desktop Protocol (RDP) client, the Sun Ray Connector for Windows. This feature enables a direct connection between the Sun Ray Server

and Windows Terminal Services. It can be used to provide a full-screen Windows desktop or provide access to specific Windows applications on Solaris or Linux desktops. Users can access local peripherals, cut and paste between applications on different operating systems, and authenticate Windows applications with a smart card.

### System specifications

#### Sun Ray 270 virtual display client

##### Hardware

- Graphics: 24-bit graphics, 17-inch thin film transistor (TFT) and flat-panel liquid crystal display (LCD), up to 1280x1024 resolution maximum @ 75 Hz
- Peripheral interface: Four powered USB ports, two serial ports, one RGB projector port, one DB15 port for display input
- Networking: 10/100 Base-T
- Input devices: USB keyboard, USB mouse, smart card reader ISO-7816-1
- Audio: CD-quality audio in/out, microphone, headphone jacks, stereo line level in
- Monitor: Integrated 17-inch TFT and LCD flat-panel display
- Adjustments: Monitor tilt

##### Dimensions and weight

- Width: 376.6 mm
- Depth: 191.0 mm
- Height: 407.0 mm
- Weight: 5.2 kgs

##### Regulations (meets or exceeds the following requirements)

- Safety: UL 60950/CSA C22.2-60950; EN 60950
- Ergonomics: GS Mark

#### Learn More

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- EMC: CISPR22; EN55022 Class B; FCC CFR Title 47, Part 15, Subpart B, Class B; EN55024:1998; IEC6100-3-2; IEC6100-3-3 (CISPR24:1997)
- Power Management: EPA Energy Star Compliant
- RoHS-6 Compliant

##### Environment

- Operating: 0°C to 35° (32°F to 95°F), 5% to 93% RH, 3km (10K ft.)
- Nonoperating: -20°C to 60°C (-4°F to 140°F), 5% to 93% RH, 12km (39K ft.)

##### Power

- AC power
- Power consumption: 100-240 VAC autoranging power supply, 50-60 Hz, 1.5A
- System power consumption: 60W AC maximum, 40W typical with keyboard and mouse attached

##### Acoustic emissions

- <3.0B, <28dBA (operator), ISO 9296