

## The TANDBERG Solution for Video

TANDBERG delivers a high-performance product line for all your video communication needs. Each product is designed for simplicity, quality and value. The TANDBERG Solution consists of the following systems and software that can be purchased individually, and can work seamlessly together for a total video solution:



### *TANDBERG Video Systems*

- Full range from personal – to meeting room products
- Share a common software platform and a common user interface

### *TANDBERG Network Equipment*

- TANDBERG MCU (Multipoint Control Unit)
  - *Standalone MCU for joining multiple sites into one conference cost effectively*
- TANDBERG Gateway
  - *Available in two versions: 8 video + 8 audio sites, and 16 video + 16 audio sites*



### *TANDBERG Management Suite*

- Web-based software for administrators to centrally manage and monitor the video network, including video systems from other vendors
- Client Solution Package, consisting of
  - *TANDBERG Instant Messenger, a tool for un-scheduled multi-media communication, including business quality video*
  - *TANDBERG Scheduler, allows everyone in an organization to schedule their own video conferences*
- Application Integration Package, supporting scheduling integration with Microsoft® Exchange
- Network Integration Package, supporting integration with 3rd party network equipment



## TANDBERG Video Systems

### **Broad Range of Products**

TANDBERG offers a video system for every video need and room size in your organization. For example, the compact TANDBERG 1000 is a fully integrated system that is ideal for an executive desk. The high performance TANDBERG 6000 turns a medium conference room into a global communications center. And the elegant TANDBERG 8000 enhances the boardroom.

### **Delivering Practical Innovation**

TANDBERG is consistently first to market with features. We work closely with our customers to deliver system enhancements tested in the real world. Two of the most popular TANDBERG firsts are embedded MultiSite<sup>TF</sup> and DuoVideo<sup>TF</sup>. TANDBERG systems with the MultiSite feature are able to join up to four video sites of mixed IP and ISDN sites and one audio site in the same meeting. DuoVideo enables the presenter to appear on one screen and the presentation on the other screen.



TANDBERG 6000

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## Highlights

### Common Interface and Features

All systems share the same intuitive interface and features. When you learn to use one TANDBERG system, you know how to use them all.

### One Software Platform

Simplifies installation, upgrades and expansion for a strong return on investment.

### Clear, State-of-the-art Audio and Video

The wide angle view camera and the premium quality Natural Audio Module™ II are examples of the precision engineering that makes TANDBERG the leader in audio and video quality.

### H.264 Implementation

All TANDBERG endpoints offer H.264 efficiencies of higher quality video over lower bandwidth.

### Proven Reliability

Features such as Downspeeding™ and IPLR™ automatically protect calls from network interruptions.

### Robust Security

The highest level of standards-based encryption (AES) is embedded in all TANDBERG endpoints and network equipment.

### Standards-based

For compatibility with systems from multiple vendors and for seamless integration with network features.

### Award-winning Design

Form and function are united in every system.

## TANDBERG Network Equipment

### TANDBERG MCU

#### 8 or 16 Sites — The Choice is Yours with the TANDBERG MCU

Understanding the needs of today's collaborative enterprise, TANDBERG has introduced the first MCU designed specifically for the enterprise market. Easily deployable and scalable, the TANDBERG MCU optimizes network resources for the most cost-effective collaborative communications and supports the features demanded by enterprise buyers. Easy to install, easy to use, and easy to manage, the TANDBERG MCU represents an evolution in the MCU market.

#### Benefits of an in-house MCU include:

- Avoid security issues associated with the use of external providers
- Save valuable time and resources by using internally managed networks
- Enjoy the freedom of being able to set up MCU calls when desired, without having to plan in advance



## MCU Highlights

### Easy to Configure

- A fully integrated, compact unit that ensures reliability, with no additional hardware or software components

### Joins Multiple Sites

- 8+8: Connect a combination of up to 8 video sites + 8 telephone calls in one meeting
- 16+16: Connect a combination of up to 16 video sites + 16 telephone calls

### Excellent Audio and Video Quality

- The TANDBERG MCU automatically configures itself to the optimal audio and video quality, guaranteeing the highest level of performance and the most natural of meeting environments

### Simple Maintenance through Integrated Web Server

- Installation
- Configuration
- Monitoring
- Diagnostics

### Reliability Ensured

- Intelligent Call Management<sup>TF</sup> ensures that all sites are accepted into the call, regardless of their bandwidth capabilities
- During the call, Downspeeding<sup>TF</sup> maintains the call in progress, even when network interruptions cause lines to be lost

### Secure Video Meetings

- Secure Conference<sup>TF</sup> with TANDBERG's embedded encryption feature
- Password protection prevents unwanted interruptions

### Successful Presentations

- DuoVideo<sup>TF</sup> lets those with dual screens see both the presenter and the presentation at the same time
- Native video resolutions ensure that images maintain their true resolution, including XGA format

### Intuitive Screen Layouts

- Continuous Presence and Voice Switched formats
- Best Impression<sup>TF</sup>
  - *Automatic switching between 4, 9 and 16 participants displayed*
  - *Optimal video resolution provided automatically at all times, depending on bandwidth and context*
- Request Floor/Presenter feature allows any site to be broadcast in full screen format

## TANDBERG Gateway

The TANDBERG gateway provides seamless integration between IP and ISDN networks. It is designed specifically for the enterprise market, with a choice of two versions providing capacities of 2 Mbps or 4 Mbps. It supports network and videoconferencing equipment from multiple vendors. Easily deployable, the gateway supports the standards established for the video communication environment, as well as enhancements such as call transfer, security, Downspeeding and QoS.



### Benefits of using the TANDBERG Gateway:

- Allows IP devices to communicate over ISDN when required for video communication, and helps distribute received ISDN traffic to the appropriate IP endpoints in the local area network
- Allows mix of IP and ISDN in the network, with the benefit of increased flexibility in planning and implementation
- Easy to install, use, and manage, requiring a minimum of network administration resource

### Highlights

- Provides seamless integration between packet-based network services (i.e., IP) and ISDN
- Supports network and videoconferencing equipment from multiple vendors
- Supports complete set of TANDBERG videoconferencing systems features, including DuoVideo,<sup>TF</sup> Natural Video,<sup>TF</sup> IPLR<sup>TF</sup>
- Complete Multipoint Transparency<sup>TF</sup> including chair control
- Easy to use, Plug-and-Play technology
- Bandwidth per call: 56 kbps – 2 Mbps
- Support for highest level of standards-based embedded encryption
- Facilitates automatic load balancing in multiple gateway environments
- Downspeeding<sup>TF</sup> and IPLR<sup>TF</sup> provide protection from network interruptions and maintain the call in progress
- Simultaneous call capacity: 8 video calls and 8 audio calls

## TANDBERG Management Suite (TMS)

### Web-based application for administrators

The TANDBERG Management Suite makes it easy for administrators to manage and maintain their entire videoconferencing network. The centralized system reduces costs and saves time by providing real-time information and diagnostic tools for more effective monitoring. The ability to allocate costs and measure usage facilitates accounting functions and return on investment calculations.

The TANDBERG Management Suite manages systems that operate on IP and ISDN. Systems from all leading manufacturers are supported.



### Highlights

#### Graphic Display

Complete overview of system activity on one screen.

#### Call Detail Records (CDR) and Billing Information

Statistics and data for each system are used to show usage patterns, prepare reports and allocate costs.

#### Event Notification

Receive messages about system activity by e-mail.

#### Advanced Conference Booking

Allow administrators to support users better by setting up the call for them in advance or ad hoc.

#### Software Upgrades

Upgrade multiple systems simultaneously from a central location.

#### Templates and System Configuration

Easy template-driven ability to transfer settings for conference environments.

#### Directory Services

Manage lists of video numbers in one or several global directories and ensure easy dialing of numbers. H.350 support allows directories import and export.

#### Automatic Call Routing

Ensure calls are placed using optimal routing with respect to local, long distance and international calls.

#### Backup

Create a copy of the data so that it can easily be restored.

## TMS Client Solution Package

### TANDBERG Instant Messenger

*A tool for instant, un-scheduled video communication — and more*

A powerful and very user friendly tool for users to manage their ad-hoc video communication, in combination with chat, voice and data/web conferencing. The TANDBERG IM Client is the first tool to allow users to share meeting room video equipment without having to schedule or check first if it is available.



## Highlights

### Simple yet powerful user interface

- Graphical interface, one click to connect
- Real time information

### Multimedia IM environment

- Text chat to MSN chat community
- Connects Voice message to User's preferred phone
- Data conferencing using See&Share
- Video chat using business quality video resources (H.323, H.320)

### Presence

- Shows availability of people using common IM mechanisms
- Allows users to select primary video system, which can include shared meeting room systems
- Shows availability for people and communication resource, combined

### Directory

- Easy to add users from the TMS directory

### Resource management

- Takes into account scheduled meetings on shared video equipment
- Uses TMS functions for Advanced Routing, Booking and Scheduling, and Conference Management

### System requirements

- Microsoft® Windows® 2000 or XP
- TMS version 8.0 or higher

## TANDBERG Scheduler

### *Web-based scheduling tool for everyone in an organization*

An organization-wide scheduling and reservation tool, the web-based TANDBERG Scheduler saves time and money by creating a seamless reservation process that is simple enough for even the most novice user. By clicking the icon on their desktops, users can easily check room availability, book a room, reserve a video system, invite meeting participants and coordinate with Microsoft® Outlook® calendars. A central administrator controls access to the program and reservation rights.



### Highlights

#### **Automatic Call Initiation**

The video systems are automatically connected according to schedule.

#### **Automatic Call Routing**

The TANDBERG Scheduler will automatically identify the best way to make point-to-point and multipoint calls. It will also determine the type of network and optimal bandwidth.

#### **Personal Calendar**

“My Meetings” can be used to check schedules and get an overview of meetings.

#### **Automatic Time Zone Adjustment**

Automatically adjusts for time zone differences. All meeting participants receive invitations that reflect their own local time.

#### **Templates and System Configuration**

Easy template-driven ability to transfer settings for conference environments.

#### **Customized with Company Logo**

The welcome screen can be customized with the company's logo and the individual user's name.

#### **Multiple Language Support**

TANDBERG Scheduler offers clean, easy-to-follow user interface in 13 languages.

### TMS Application Integration Package

#### **Provides scheduling integration with Microsoft® Exchange.**

Allows users to schedule meetings and book meeting rooms and video resources from within the Microsoft Outlook® environment, maintaining the look and feel of Outlook in the scheduling activity.

### TMS Network Integration Package

Gives TMS the ability to manage third party network equipment, to allow scheduling and video call set-up on commonly used video bridges:

- Polycom MGC (Accord) MCU
- Cisco IP/VC 3540
- RADVISION viaIP MCU

### Best-in-Class Solution

You won't find a better value than the TANDBERG Solution for videoconferencing. TANDBERG continually works with customers to offer systems that are easier to deploy, easier to operate and are more cost efficient.

#### **Savings on the Initial Investment Cost**

With one software platform for all systems and the ability to upgrade centrally using the TANDBERG Management Suite, the TANDBERG Solution provides strong return on investment.

The functionality of the TANDBERG MCU has been specifically designed to meet the needs of enterprises. Companies can purchase several MCU units and deploy them in strategic locations, rather than having one centralized unit. Distributed, optimized conference resource reduces total cost of ownership.

#### **Network Cost Savings**

It is less expensive to call locally or nationally than long distance to a central MCU unit. By using the TANDBERG Scheduler or TANDBERG Management Suite to book their meetings, the most cost effective connection will be established. For example:

- 1st: Point to point call where relevant
- 2nd: Embedded MCU
- 3rd: TANDBERG MCU

**Unrivaled Reliability**

With state-of-the-art audio and video technology, TANDBERG videoconferencing systems have a strong record for design quality and reliability.

For example, when an MCU call is in progress and network problems arise, only affected calls will be impacted and not all calls in the conference.

**Flexible Use**

TANDBERG videoconferencing systems can be adapted to many different environments and applications. Several models have mobile carts, while the set-top products are extremely portable and are wireless LAN capable.

With a decentralized MCU, users are able to call on an ad hoc basis without the need to plan or book days in advance.

With the TANDBERG Gateway, there is full flexibility to use IP or ISDN as your network. With the TANDBERG TMS, this choice can be managed by the network administrator and will be fully transparent to the end user.

**Secure**

The TANDBERG embedded encryption feature ensures that all conferences are secure and intellectual property is protected. "AES" encryption is now embedded in all TANDBERG video endpoints and network equipment, giving the highest level of standards-based security.

**Unparalleled Ease of Use**

Transparent technology makes the elements of the TANDBERG Solution simple to install, use and manage. One common platform ensures seamless interoperability and ease of use, creating significant user and administrator time savings.

**Enterprise-wide Implementation**

In addition to the range of products suitable for offices, meeting rooms and boardrooms, the TANDBERG Scheduler promotes a broader implementation of videoconferencing. Users throughout the enterprise can schedule meetings and book rooms directly from their desktops.

To learn more about TANDBERG products and services, please visit our website at [www.TANDBERG.net](http://www.TANDBERG.net) or contact our global headquarters:

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