

## Ray Kurzweil

### Live virtual lectures and interactive Q&A via Teleportec Teleporter



Mr. Kurzweil is the only speaker in the world to have a Teleportec teleporter installed in his office that enables him to appear as if he were at an event, on stage, in person. Using a Teleporter, he can appear live, life-sized, in three dimension. The audience sees Mr. Kurzweil as if he is standing at a solid wooden podium with the local background behind him and can achieve eye-to-eye contact during the lecture and Q&A. It is quite a dramatic illusion and creates a feeling of personal presence far beyond standard videoconferencing. We have received overwhelmingly positive feedback about the technology from many conferences, including a few comments by amazed audience members who initially thought that Mr. Kurzweil was standing on stage in person. The Teleporter provides a unique demonstration of early virtual reality -- one of the topics covered in Mr. Kurzweil's lectures about the future of technology and its far reaching impact on humankind. Mr. Kurzweil has spoken via Teleporter for dozens of lectures in the United States and around the world including Brazil, Denmark, Australia, Tokyo, Austria, Spain, Sardinia , Italy, Germany, Colombia, Ecuador, Singapore, and more.

In 2008, Mr. Kurzweil gave over twenty five percent of his lectures via Teleporter. Kurzweil Technologies upgraded our in-house studio with professional lighting, a broadcast quality camera specifically optimized for videoconferencing demands, a larger studio layout, and a top-of-the-line Tanberg codec that connects over ISDN lines or the Internet. After six years of successful collaboration with Teleportec we have a comprehensive system in place to produce a high-quality and reliable virtual appearance.

The Teleportec transmission is made over 3 ISDN lines which must be installed at the venue if they are not already in place. There are a few peripheral staging elements that must also be in place as described below. Soon after the ISDN lines are installed at the venue, we schedule an initial test of the lines. We then have a full dress rehearsal test with all staging elements in place the day before Mr. Kurzweil's lecture.

The following is a list of Mr. Kurzweil's teleported lectures (as of November 2008):

October 9, 2009	TEDxKids, Southern Methodist University, Dallas, TX
March 4, 2009	Worldwide Business Research's TradeTech 2009, New York City, NY
November 15, 2008	ESPOLciencia, Guayaquil, Ecuador
November 11, 2008	Colombia Compite, Cali, Colombia
November 9, 2008	Chicago Humanities Festival, Chicago, IL
October 30, 2008	Freiheit, Hamburg, Germany
September 12, 2008	UBS Philanthropy Forum, Singapore
June 3, 2008	Jones Lang LaSalle, Leading Edge, Chicago, IL
May 31, 2008	The Association for Retinopathy of Prematurity and Related Diseases (ROPARD), Detroit, MI
May 22, 2008	Thinking Digital, Gateshead, UK
April 27, 2008	The Association for Research in Vision and Ophthalmology Annual Meeting, Fort Lauderdale, FL
April 26, 2008	American Organization Nurse Executives' 41st Annual Meeting & Exposition, Seattle, WA
April 24, 2008	Menlo Ventures CEO Summit, Half Moon Bay, CA
March 5, 2008	University of Arizona, Tucson Arizona
February 16, 2008	InnovAction, Udine, Italy
January 22, 2008	World Economic Forum Davos, Young Global Leaders Forum, Davos, Switzerland
January 3, 2008	Advanced Equities Venture Capital Summit, Dana Point, CA
October 29, 2007	Bay of Plenty (BOP) Economic Transformation Program's Idea to Reality (I2R), New Zealand
September 30, 2007	Diamond Management & Technology Consultants, White Sulphur Springs, WV
September 20, 2007	Computer Science Corporations, Leading Edge Forum, Sydney, Australia
May 22, 2007	PINC.8, Holland
May 18, 2007	UBS Philanthropy Forum 2007, Varese Italy
May 1, 2007	Ontario Centers for Excellence, Toronto, Canada
April 25, 2007	Massachusetts Association for the Blind, Boston, MA
March 16, 2007	Hertz Foundation Symposium, San Jose, CA
October 7, 2006	Fiat 30+ Symposium, Sao Paulo, Brazil
June 8, 2006	Adams Street Partners, Chicago Client Conference, Chicago, IL
May 21, 2006	Viaggio Telecom, Pisa, Italy
March 24, 2006	Pfizer's Global Glaucoma Summit, Beijing
March 9, 2006	eCollege's, Center for Internet Technology in Education (CiTE) User Conference 2006, Denver, CO

December 1, 2005	12th Annual Silicon Valley Venture Capital/Entrepreneur Networking Luncheon, Silicon Valley
October 4, 2005	National Research Council of Canada's Leadership Forum, Ottawa, Canada
September 21, 2005	Innovation Lab's <i>Web Within Us</i> Conference, Copenhagen, Denmark
January 11, 2005	Science & Technology Convergence Conference, Ottawa, Canada
October 20, 2004	Harvey Mudd College Distinguished Speaker Series, Claremont, CA
October 14, 2004	Parthenon Capital's First Executive Forum, Carefree, Arizona
October 13, 2004	Carnegie Mellon University Robotics Institute's 25th Anniversary event, Pittsburgh, PA
May 6, 2004	Australian Institute of Company Director's Annual Conference, Queensland Australia
February 11, 2004	Coastal Carolina's 3rd Celebration of Inquiry, South Carolina
February 4, 2004	CRIM's Crystal Ball conference (a large Canadian technology consortium), Montreal, Canada
December 16, 2003	Sony's Annual Technology Week, Tokyo
September 18, 2003	International I & C Siemens User Conference, Vienna, Austria
September 22, 2003	World Economic Forum meeting, London, England
September 16, 2003	NASA's conference on Motion and Interaction within Virtual Environments, London, England
August 8, 2003	Telluride Tech Festival, Telluride, Colorado
July 9, 2003	Deloitte & Touche Global Meeting, Barcelona, Spain
February 6, 2003	Sardinia's International Conference for Knowledge Driven Industries, Sardinia
November 27, 2002	AT21 "e-Living" Gala, Vienna, Austria
March 7, 2002	Nanoventures, Texas

**Technical and other requirements for Teleported appearances by Ray Kurzweil:**

***The conference must supply the following to support the Teleportec system:***

- Three pairs of ISDN lines, which are 128 Kbps each for a total of 384 Kbps. They must be configured so that they end in 3 RJ45 jacks (this is standard). The lines must be installed and successfully tested at the location of the presentation podium via videoconference system at least 3 business days prior to the Kurzweil presentation. The conference must ensure that the ISDN lines are extended from the venue source point to the podium location prior to this test. The conference must secure a videoconference system for this test. The ISDN lines (including the extensions from the source point to the podium location) must not be disturbed or rerouted following the test and before the Kurzweil presentation.

- IP connection with no firewall with a minimum of 1.54 mbps available at the venue. This serves as a back-up to the ISDN lines.

- sound board with mix/minus capability. The Teleportec codec (located at the podium) has an XLR connector for the house/audience microphones. This should be connected through the mixer. The audio output from the Teleportec codec is a mono RCA output.

- centrally placed microphone(s) for the question and answer session and to send general audience feedback back to Mr. Kurzweil during the presentation.

- blue pipe and drape backdrop to be hung behind the Teleportec lectern. (The backdrop should include several draped panels with a split down the middle behind the Teleporter. The Teleportec camera will be placed in between the split drapes in a way that is hidden from the audience. The camera will send video of the audience back to Mr. Kurzweil).

- two barn door lights on dimmers with blue gels.

- a black stage or underlay on which the Teleportec lectern will sit.

- in order to ensure that Mr. Kurzweil can see the audience, there must be no overhead lighting above the Teleportec lectern and the audience must be lit fairly well with house lights.

***The conference will supply the following to support the PowerPoint presentation:***

- A laptop to run the PowerPoint (Microsoft® PowerPoint 2003 version preferred)

- Large projection screen for PowerPoint projection

- Professional projector for PowerPoint projection

- VGA cable to connect the laptop to the projector

- 1/8" mini stereo headphone adaptor to connect the show computer to audio system

- landline telephone near the location of the show computer

-conference will designate a staff person to advance the Kurzweil PowerPoint presentation during the Kurzweil presentation with advancement directions provided over a phone line by a Kurzweil staff person during the keynote.

**Testing Schedule:**

- conference will conduct a preliminary test of the ISDN lines with the Kurzweil location at least 3 business days prior to the Kurzweil lecture. Preferably, this is done soon after the contract is signed. The purpose of this test is to confirm that the ISDN lines are working optimally in both directions. It is assumed that event staging, lighting, sound elements will *not* be in place for this advanced test.

- in addition to the ISDN line test described above, the conference will participate in a dress rehearsal test with Teleportec and Kurzweil staff the day before the live presentation. This test will include connecting the Teleportec systems over 3 ISDN lines and testing lighting, sound, and staging at the venue. All event lighting, sound, staging will need to be in place prior to this test. The PowerPoint will be tested on the show computer with the actual projection system during this dress rehearsal test.

- a brief lighting and sound check will be done on the day of the live presentation with Mr. Kurzweil at the teleporter. This will happen during a break in the program leading up to the lecture when the presentation hall is relatively empty.

**Other requirements to be provided by the conference:**

- pallet jack to transport the Teleportec crate to the lecture hall.

- forklift if the delivery truck does not have a lift gate (generally they have lift gates)

**Teleportec will supply:**

- A Teleportec staff person will travel to the event to set up, oversee, and break down the Teleportec system.

- Teleportec lectern including codec and camera. The system is shipped in a crate that is approximately 5' square and 1,200 pounds. The system comes disassembled and the Teleportec staff person assembles it on stage. The heaviest component is the beam splitter which is approximately 97 pounds. The Teleportec technician will require some assistance from stagehands at the event in order to assemble the system.

