

■ Main Specifications

Product name		Ricoh Unified Communication System P3000
Video standards		H.264/SVC (H.264/AVC Annex G)
Audio standards		SPEEX wideband/ITU-T G.711/ ITU-T G.722
Communication	Protocol	Unique procedure
	Transmission speed	500 Kbps to 2 Mbps
Security	Encryption method	Call control, screen data, address book : TLS 1.0, video and audio : SRTP
Power		100V-240V, 50/60 Hz
Power consumption		50 W max.
Warm-up time (startup time)		Approximately 30 seconds *1
Noise		40 dB max.
Interface	USB port A terminal	Operation verified devices (microphone, speaker) can be connected *2,*3
	USB port B terminal	For connecting by USB cable to the computer that is sharing screens
	Wired LAN	10BASE-T, 100BASE-TX, 1000BASE-T
	Wireless LAN	IEEE802.11g, IEEE802.11b, IEEE802.11n
	Authentication system (wireless LAN)	Open system authentication, shared key authentication, WPA-PSK, WPA2-PSK
	Encryption system (wireless LAN)	WEP: WEP128bit/64bit, TKIP: WPA-PSK/WPA2-PSK, AES: WPA-PSK/WPA2-PSK
	Video output	XGA resolution: 1024 x 768 dots WXGA: 1280 x 800 dots
	Video output terminal	RGB (D-sub 15-pin) x 1, DVI-Dx1 *4
Dimensions		285 mm (W) x 189 mm (D) x 40 mm (H) (excluding protrusions)
Weight		Under 1.6 kg
Computer screen sharing	Compatible computer screen resolution	SVGA (800×600 dots), XGA (1024×768 dots), WXGA (1280×600 dots only)
	OS	Windows XP Home Edition/Professional SP3 Windows Vista Home Basic/Home Premium/Business/Enterprise/Ultimate SP2 Windows 7 Home Premium/Professional/Enterprise/Ultimate SP1
	CPU	Pentium M 1.2 GHz or faster
	Memory	512 MB or more
	Hard disk	Program area 100 MB or more
Operating environment	Environment while operating	Temperature: 10 to 32°C, humidity: 15 to 80% (no condensation)
	Environment while not operating	Temperature: 0 to 43°C, humidity: 10 to 90% (no condensation)
	Maximum altitude	Height above sea level: 3,048 meters (10,000 ft)
Relevant standards		RoHS directive compatible, VCCI Class B compatible
Accessories packaged with P3000		AC adapter/power cable, USB cable, Warranty (Disclaimers), Quick Guide (Simple Manual), carry bag, For Administrators, Licensing Agreement (Windows® authentication), Privacy Policy form, Read This First

*1 About 30 seconds in the case of DHCP until a usable screen appears after power is turned on (in case of wired LAN, proxy off, ping response within 30 ms). About 50 seconds in the case of a fixed IP address

*2 Contact the sales representative in your area about microphones/speakers which are verified).

*3 When an external I/O unit (microphone or speaker) is connected to the USB port, priority is given to that connected external I/O unit and the I/O unit built into the terminal is disabled. Also, when two external I/O units of the same type are connected, only one of the units is enabled.

*4 The image output terminal cannot be used at the same time.

*5 Service use charges are required separately. For details, see price list.

■ Operating Precautions

• A separate video output device (e.g. display, projector) is required to use the product. • An Internet connection is required to use the product. The minimum required bandwidth required upstream and downstream between the endpoint and the video routing server is 500 Kbps. 1 Mbps or more is recommended. • This product is not intended for long-term continuous operation, such as 24 hours nonstop. • Note that the warranty and maintenance do not cover product malfunction due to intentional, accidental, or inappropriate use, natural disasters, etc. • Do not leave the product outdoors, in a bathroom, in a shower room, or in any other location where there is the risk that it will get wet. • Do not place any objects on top of the product. • Do not stack the product with other equipment and do not place any other equipment on top of the product. • Do not allow the product to come into contact with insecticides or any other volatile agent. Also, do not bring the product into long-term contact with rubber or vinyl products. Doing so may cause discoloration, peeling paint, etc. • Do not use near hot locations such as close to heaters, etc. Doing so may cause malfunction or reduce its service life. • Avoid locations with oil smoke or cigarette smoke, etc. Particulates may adhere to the optical parts, reducing the service life and causing the image to darken. • Using the unit close to a television or radio may adversely affect the video and audio. If this happens, move the unit away from the television or radio.

■ Wireless LAN operating environment

• Wireless connection is supported with an IEEE802.11b/g/n standard wireless LAN access point. Certain wireless LAN environments can result in image distortion and delay.

■ Computer screen sharing operation environment

- Supported operating systems: Windows® XP, Windows Vista®, Windows® 7
- CPU: Pentium M 1.2 GHz or higher recommended
- Memory: At least 512 MB recommended

■ Interface Terminals

The unit is equipped with a variety of input and output terminals so it can be used in a wide range of locations. Connecting with other equipment greatly increases the potential for visual communication

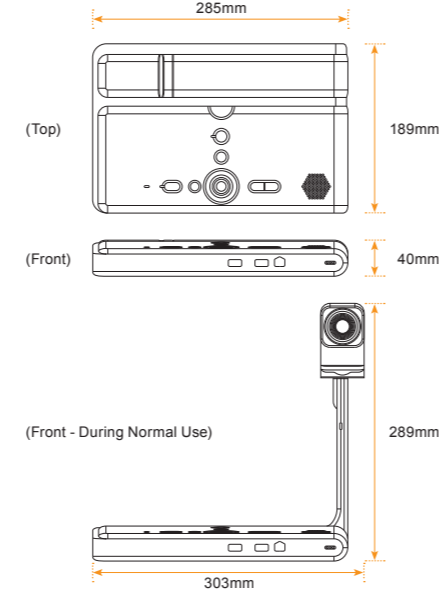
Front ①② USB port A terminals ③ USB port B terminal



Back ④ Wired LAN ⑤ DVI-D ⑥ RGB



■ Dimensions



■ Device management settings

- Recommended environment: Internet Explorer 7 or 8
- * Check in the home page for the latest supported browsers.

■ Wireless LAN Operating Precautions

• The frequency band used by this equipment is 2.4 GHz. This frequency is also used by microwave ovens and other manufacturing, scientific, and medical equipment, as well as licensed built-in wireless stations used by similar types of wireless networks, industrial production, and other applications, and license-free special small power wireless stations and amateur wireless stations (other wireless stations from hereon). 1. Before using this equipment, confirm that no other wireless stations are operating nearby. 2. In case of radio interference between this product and other wireless stations, immediately move and use the product in another location or terminate use of the other equipment (so it is not emitting radio waves). 3. In case of other types of radio interference or any other problems, contact your authorized Ricoh sales representative. 4. The range of the wireless signal depends on the local radio environment, obstacles, setup environment, etc. 5. Be sure to configure appropriate security settings before using a wireless LAN.

• Due to limitations imposed by the printing process, product colors shown in this catalog may differ somewhat from the colors of the actual product itself. • Photographs depicting application scenarios are conceptual. Screen shots are computer-simulated. • Product appearance, specifications, and other characteristics are subject to change without notice. • Windows XP, Windows Vista, and Windows 7 are registered trademarks or trademarks of Microsoft Corporation of the United States in the United States and other countries. • The formal name of Windows is Microsoft Windows Operating System. • Company names, product names, and logos used in this catalog may be trademarks or registered trademarks of their respective companies. • For details about performance, specifications, limitations, and other information, contact your authorized Ricoh sales representative.

RICOH Unified Communication System

P3000

Ricoh P3000 Unified Communication System



The new look in visual communication.

The start of a new age of visual communication.



Announcing a whole new means of visual communication that incorporates video, audio, documents, and other media. This enables a rich means of communication that is the next best thing to a face to face meeting . The Ricoh Unified Communication System P3000 provides real-time interactive audio and video communication with multiple locations via the Internet. This compact, lightweight take-along-anywhere configuration comes packed with wireless LAN support and an operating interface that makes it as simple to use as a mobile phone. The P3000 System frees you from the constraints of location and environment imposed by conventional Video conferencing systems, and the need for special knowledge required by Web conferencing systems.

All of this and much more means that the P3000 enables visual communication any time, any place, by anyone, and with anyone. The Ricoh Unified Communication System P3000-making visual communication yours.

RICOH Unified Communication System P3000

Anytime, anywhere.

An A4-size thin (40 mm), lightweight (less than 1.6 kg) configuration. Support for both wired LAN and wireless LAN. Can be easily carried by anyone to just about any location for face-to-face real-time communication anytime and anywhere.



By anyone, with anyone.

Start up takes about 30 seconds after power on, and other parties can be selected from the address book.

The user interface is similar to that found on a mobile phone, which makes operation simple enough for just about anyone. A standard Internet environment available to anyone is used, so there is no need for a dedicated in-house communication network. You can connect with parties within the same company, or customers or other parties outside as well.



* Power supply, output equipment, and Internet connection to be supplied by user. * Photographs are conceptual.

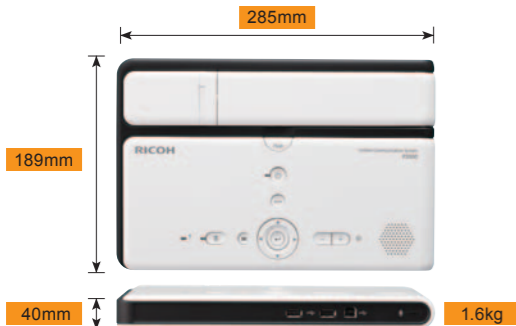


Portable

Small footprint opens up a new dimension of freedom for visual communication

A4-size, less than 1.6 kg for go-anywhere portability.

A camera, microphone, speakers, wireless LAN and wired LAN come packed in a compact, lightweight configuration that is A4-size and weighs a maximum of 1.6 kilograms. A special soft case comes included for easy transport to just about anywhere. A mere 40 mm thin, the P3000 slips easily into a desk cabinet for storage.



Wireless LAN support. Easy connection from anywhere.

Wireless LAN support is equipped as standard. As long as there is access to an AC power source, you can connect and conference even if a wired LAN is not available. In an unused corner of the office, at a location outside and just about everywhere in between, the P3000 System makes virtually unlimited visual communication yours.



* Operation must be checked beforehand since the terminal sometimes cannot be connected on some wireless LAN environments.

Internet connectivity. Even connect with other companies.

The P3000 System provides real-time cloud based interactive video and audio communication for multiple locations. As the service is provided via the Internet, visual communication can be shared with

with parties in different companies, as well as different branches or parties of the same company.



* Photographs are conceptual.



Simple

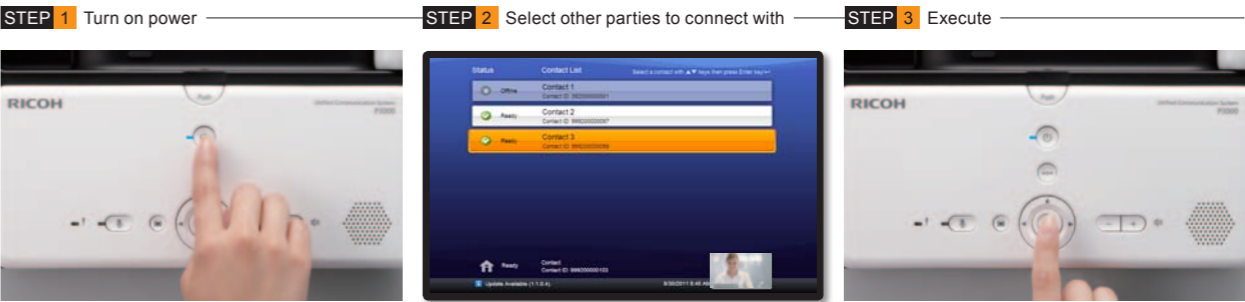
Targeting ease of use by anyone.



Simple 3-step operation.

High-speed start-up takes only about 30 seconds after power on. Ricoh original call control technology lets you perform one-finger selection of the other parties of the session while viewing an address book (list

of locations), using an interface that is similar in appearance to that of a mobile phone. You can even instantly connect with customers and other parties outside your company over the Internet.



* Photographs are conceptual.

USB connection for display sharing with a computer screen.

Simply connect the P3000 via a USB cable to a computer to share your computer screen with the other parties. This lets you view the same screen while conferencing for smoother more efficient communication.

Shared display with a computer screen (with two-location connection)



* Computer connection requires installation of a special utility from the P3000. (First time only)
* Photographs are conceptual.

The ultimate in function and design.

A simple and stylish unit houses outstanding operability. An even higher level of performance can be attained by using the P3000 in combination with the Ricoh PJ Series mobile projector.



Real

Innovative technology for real time visual communication.



20-location connection as standard. Simultaneous display of nine locations.

H.264/SVC video codec standard enables multiple location connection as standard. Major cost savings are provided by the P3000 System because it eliminates the need for an expensive Multipoint Control Unit (MCU) required by conventional video

conferencing systems. Video for up to nine locations can be displayed simultaneously. A variety of different screen layouts is available, including speaker close-up and more.

■ 9-location simultaneous display (same-size)

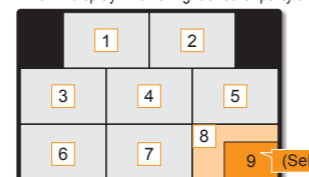


* Photographs are conceptual.

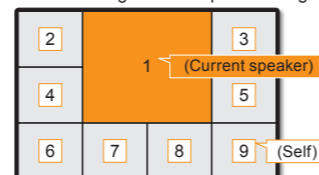
■ 9 location images of same size



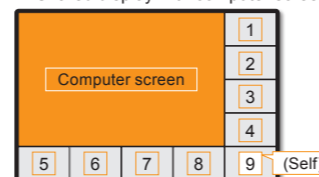
■ Own display in lower right of other party displays



■ Auto enlargement of speaker image

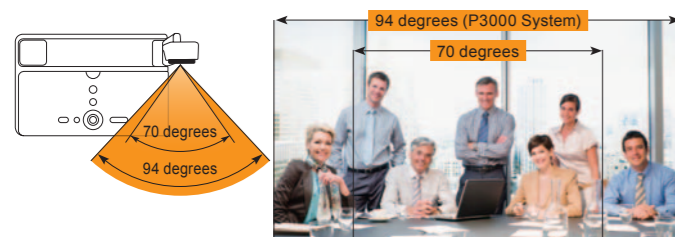


■ Shared display with computer screen



High-resolution, 94-degree wide angle of view.

Ricoh's long experience of optical technology delivers a 1.3 megapixel high resolution image and 94-degree wide angle view (compared with 65 to 70 degrees for a standard video conferencing system). The result is video communication which makes you feel like you are really face-to-face with other parties.



* Photographs are conceptual.

Stable video. True real-time communication.

H.263 and H.264 video codec standards used by most video conferencing systems fix the network band at the start of the connection, and subsequent data exchange is performed using that network bandwidth. Because of this, an increase in the traffic load can make it impossible to maintain the fixed bandwidth, which causes distortion and freezing-up of the video. To avoid this, the P3000 System uses the new H.264/SVC video codec standard. This codec constantly checks the network bandwidth and automatically adjusts the resolution, frame rate, and compression ratio to optimum levels whenever there is an increase in traffic load. This dramatically decreases the chance of video distortion and interruption for high-quality, real-time visual communication.

The P3000 System ushers in a whole new dimension of visual communication.

The P3000 System delivers everything from simple, low-cost visual communication to increased business efficiency and productivity. It can reduce transport costs, travel time, personnel expenses, and other costs related to business travel, increased customer satisfaction, and support for business continuity planning (BCP). The P3000 System opens up a whole new world of unlimited visual communication

Between a company and its branches

The P3000 System can be used, for example, to maintain contact between a construction company and its design offices. This improves the speed of response to new demands to greatly reduce lead times and increase customer satisfaction.



With another company

The P3000 System can be used, for example, to maintain contact between a construction company and its design offices. This improves the speed of response to new demands to greatly reduce lead times and increase customer satisfaction.



Medicine

The P3000 System can be used, for example, to link an outside clinic and general hospital to provide the services of a specialist. This makes it possible to provide advice, counseling and other support to remote locations.



Education

The P3000 System can, for example, enable exchanges between educational institutions located apart from each other. Linking multiple university research facilities with the P3000 System makes it possible to share research results in a timely manner.



* Photographs are conceptual.