The IPv6 based PDA-type dementia monitoring system

Introduction

❖In proportion to the increase of the old, <u>welfare for the aged</u> led to a grave social issue.

❖Specially, in case of dementia patient whom management and protection are asked to for 24 hours, a number of a patient increases, but welfare facilities are very insufficient.

❖Because the family who cannot manage a dementia patient for 24 hours increases like a nuclear family, the system that can monitor a patient in the outside is asked.

Why must we use the IPv6 based PDA-type dementia monitoring system?

Now, we must establish IPv6-based mobile technology.

Windows CE 4.0 supports IPv6.

Anytime, anywhere, I want to monitor state of a dementia.

Operating Procedure of the System (1)

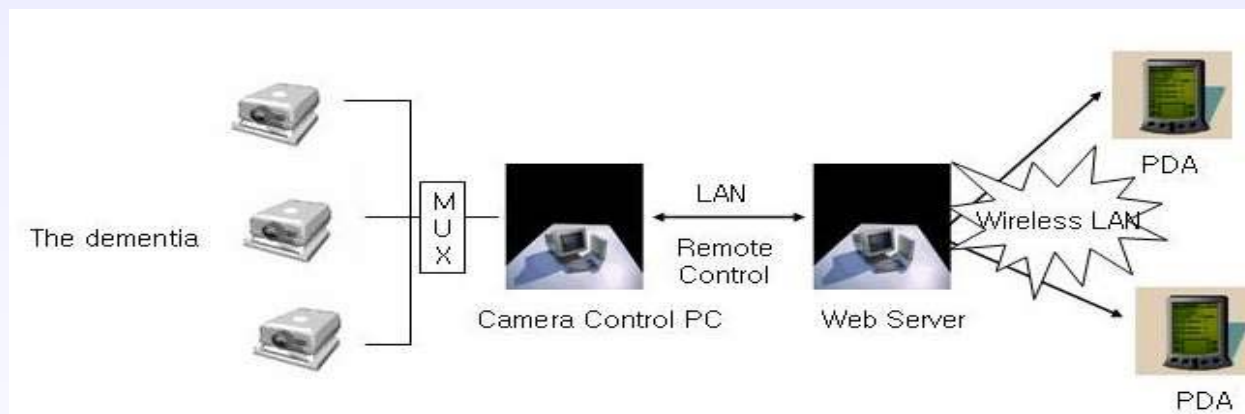## Method

❖ We developed a system for a dementia state monitor in a wireless LAN (local area network) environment.

❖ PDA used a Motion JPEG method and displayed (320*240) state of the dementia.

❖ Camera control PC included a capture function to have been made from Web Cameras and MUX.

❖ The image stored in Camera control PC was transmitted to Web server through LAN. Then, the image was transmitted from a web server to PDA through a wireless LAN(IPv6 based).

Operating Procedure of the System (2)

Procedure

❖ **Install a Web camera connected to PC in residence station.**
❖ **Web camera photographs state of a patient by a real time.**
❖ **Image is transmitted to Web server on a storage with**
   a JPEG file.
❖ **Image is transmitted from a web server to PDA through**
   IPv6 based wireless LAN.
❖**We are able to check a movement of a patient through PDA.**

Expected Benefits of the System

Benefits

❖ **Using mobility of IPv6, the application can be applied to the mobile communication environment.**

❖ **We can quickly cope with a danger situation of a patient with using this system.**

❖ **With the development of the home network facilitated by IPv6, a monitor system like this will be essential for future lives.**