

# Linux on a digital camera

Short presentation for CELF Japan Technical Jamboree 2

2004/12/17



### **RDC-i700**

- 3.3M pixels
- Good extensibility (USB/PCMCIA/CF slot)
- ROM 8 Mbytes
- RAM 16Mbytes







## **Imaging Business Platform**



Digital Camera which fits well with the business process of customers

On embedded OS, detailed knowledge of camera is needed

#### Platform (i.e. Linux based RDC-i700)

A lot of existing software

Big community

(A lot of developers and users) = "Bazar" model





`Chicken and Egg' ??



## **Imaging Business Platform**



Digital Camera which fits well with the business process of customers

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#### Alliance Activity

- Seeking Killer Application
- First step of making communities
- Need technical feedback

#### With

- Universities
- Internship Students
- Internal Evaluation Release



## Software

• IPL SH-IPL

Image Loader SH-LILO(CF boot)

• Linux kernel 2.4.26

• GUI Microwindows/FLNX (FTLK)

Userland Busybox

Imaging Home-made libraries



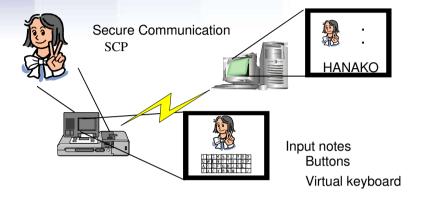
### **Current Activities**

Trying to make our code opened

- Power Management
- "imaging" hardware support
- CELF specification verification
- Move to 2.6 based ?
- Others collaboration ?



#### Mimic of "Accident report system" in Insurance company



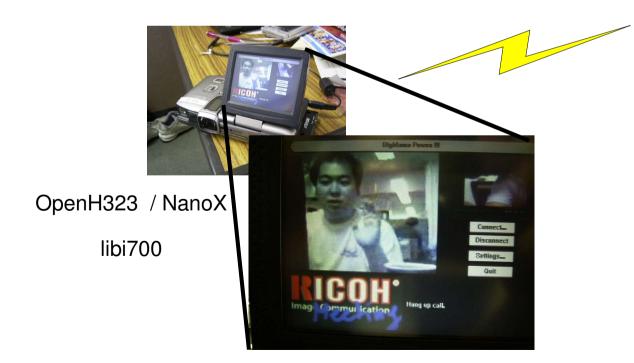
#### Camera with "Pretty" filters





Input Image

Edge detection





"Netmeeting" on Digital Camera