PC Video Capturing System (PIFCAP 1.0) captures and records video data at 30 frames per second as you see it on your monitor without imposing any additional load on the PC running the video player.

Video capturing for quality evaluation and examination.

- Directly captures the output digital/analog signal from a video player’s PC.
- Records specified area of video image.*1
- Captures video data at 30 fps*2, even if the video has a lower frame rate.

*1 Some restrictions apply.
*2 Depends on capturing video size, color, and hardware specifications
PC Video Capturing System PIFCAP 1.0

For video quality evaluation/monitoring purposes, it is very important to capture and record video data as you see it on your monitor. Our PC Video Capturing System (PIFCAP 1.0) lets you capture video data without imposing any additional CPU load on the PC running the video player and record it as you see it on your monitor.

Features

- **Capturing frame rate: 30 fps**
  
  30 fps, VGA video capturing

- **Video signal I/O interface support**
  
  Capturing system is independent of source video player PC

- **Record as you see it on your monitor**
  
  Record video as the final viewing result

System Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video capturing software</td>
<td>Frame detection video saving</td>
</tr>
<tr>
<td>Video capturing board</td>
<td>High-quality video capturing</td>
</tr>
<tr>
<td>Video capturing PC</td>
<td>Total PC system</td>
</tr>
</tbody>
</table>

System Specifications

- **CPU**
  
  Pentium IV 3.2 GHz or higher

- **Memory**
  
  1 GB or more

- **OS**
  
  Windows XP/2000

- **HDD**
  
  Serial ATA RAID0 composition

Price

<table>
<thead>
<tr>
<th>Component</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video capturing software</td>
<td>1.5 million yen</td>
</tr>
<tr>
<td>Video capturing board</td>
<td></td>
</tr>
<tr>
<td>Video capturing PC</td>
<td></td>
</tr>
</tbody>
</table>

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PC Video Capturing System
PIFCAP 1.0

Technical Specifications
Oct. 12, 2004
System Components

- Streaming video
- Local video files
- Video signal
- Video player PC
- Monitor
- Internet
- PC Video Capturing System
- Video capture board
- Video input/output
- RAID0 HDD system
- Frame copy & write to HDD

<table>
<thead>
<tr>
<th>System Component</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
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</tr>
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<td>OS</td>
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</tr>
<tr>
<td>HDD</td>
<td>RAID0 system</td>
</tr>
<tr>
<td>Frame grabber board</td>
<td></td>
</tr>
<tr>
<td>Video input</td>
<td>DVI/VGA</td>
</tr>
</tbody>
</table>
Functions

1. Capturing Video Size, Color, and Frame Rate

<table>
<thead>
<tr>
<th>Capturing Video Size</th>
<th>Color (bits)</th>
<th>Frame Rate (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QVGA (320 x 240)</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>VGA (640 x 480)</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>SVGA (800 x 600)</td>
<td>24</td>
<td>15</td>
</tr>
<tr>
<td>XGA (1024 x 768)</td>
<td>24</td>
<td>10</td>
</tr>
</tbody>
</table>

2. Output Video Format

<table>
<thead>
<tr>
<th>File Format</th>
<th>Codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference AVI</td>
<td>No compression</td>
</tr>
<tr>
<td>AVI</td>
<td>No compression</td>
</tr>
<tr>
<td>Compression AVI</td>
<td>E.g., MS-MPEG4</td>
</tr>
<tr>
<td>YUV(YV12)</td>
<td>-</td>
</tr>
</tbody>
</table>
Functions

3. User Interface

You can select a specific area.

Pixel coordinates
Preview
Capturing frame rate
Output file folder
Output file name
Preview on/off
Option check-box (sets output file name to execution time)
Quit
Stop
Start

※User interface is under construction.
Special Features

1. Capturing without additional CPU load on the video player’s PC

PC Video Capturing System can capture the video signal between the video player’s PC and the monitor, so it can capture video from every video player.

e.g., RealPlayer 8 Basic, RealOne Player, WindowsMediaPlayer 7.1, WindowsMediaPlayer 9, QuickTime 5, ...

2. Capturing video from every video player
Special Features

3. Capturing post processed video data

- Can capture video signal processed by video player, e.g., filters.
- Can capture video signal processed by video accelerator, e.g., gamma correction.

⇒ Can record video as you see it on your monitor.

4. Logging

PC Video Capturing System writes a log file, which indicate the capturing status.

Example:

```
2004/09/02 18:56:39 Capture Start
1,2004/09/03 18:56:39:921
2,2004/09/03 18:56:39:954
4,2004/09/03 18:56:40:020
5,2004/09/03 18:56:40:053
6,2004/09/03 18:56:40:086
7,2004/09/03 18:56:40:119
8,2004/09/03 18:56:40:152
9,2004/09/03 18:56:40:185
```