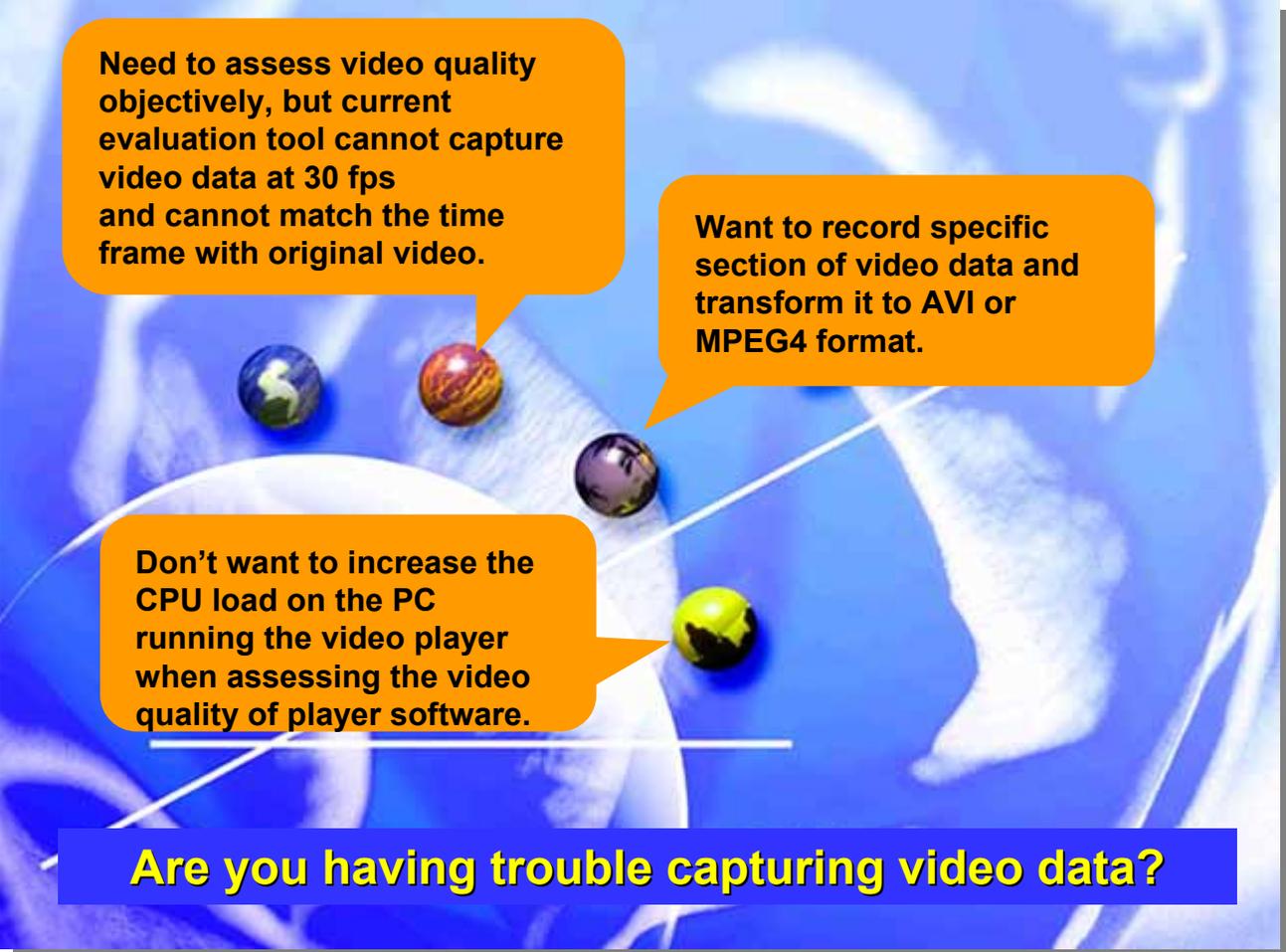


# PC Video Capturing System

PIFCAP 1.0



Need to assess video quality objectively, but current evaluation tool cannot capture video data at 30 fps and cannot match the time frame with original video.

Want to record specific section of video data and transform it to AVI or MPEG4 format.

Don't want to increase the CPU load on the PC running the video player when assessing the video quality of player software.

**Are you having trouble capturing video data?**

**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.\*<sup>1</sup>**
- **Captures video data at 30 fps\*<sup>2</sup>, even if the video has a lower frame rate.**

\*<sup>1</sup> Some restrictions apply.

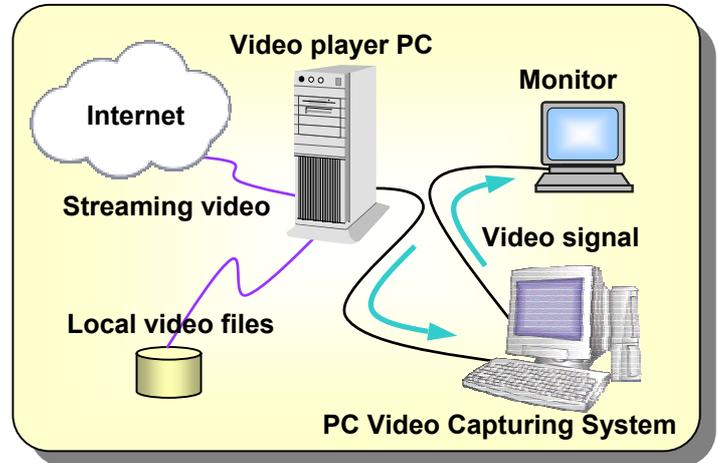
\*<sup>2</sup> Depends on capturing video size, color, and hardware specifications

# 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

Video capturing software	Frame detection video saving
Video capturing board	High-quality video capturing
Video capturing PC	Total PC system

## 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

Video capturing software	1.5 million yen
Video capturing board	
Video capturing PC	

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## Contact

### NTT Advanced Technology Corporation

#### Image Processing Business Unit

Attn. Mr. J. Kato or Mr. T. Adachi

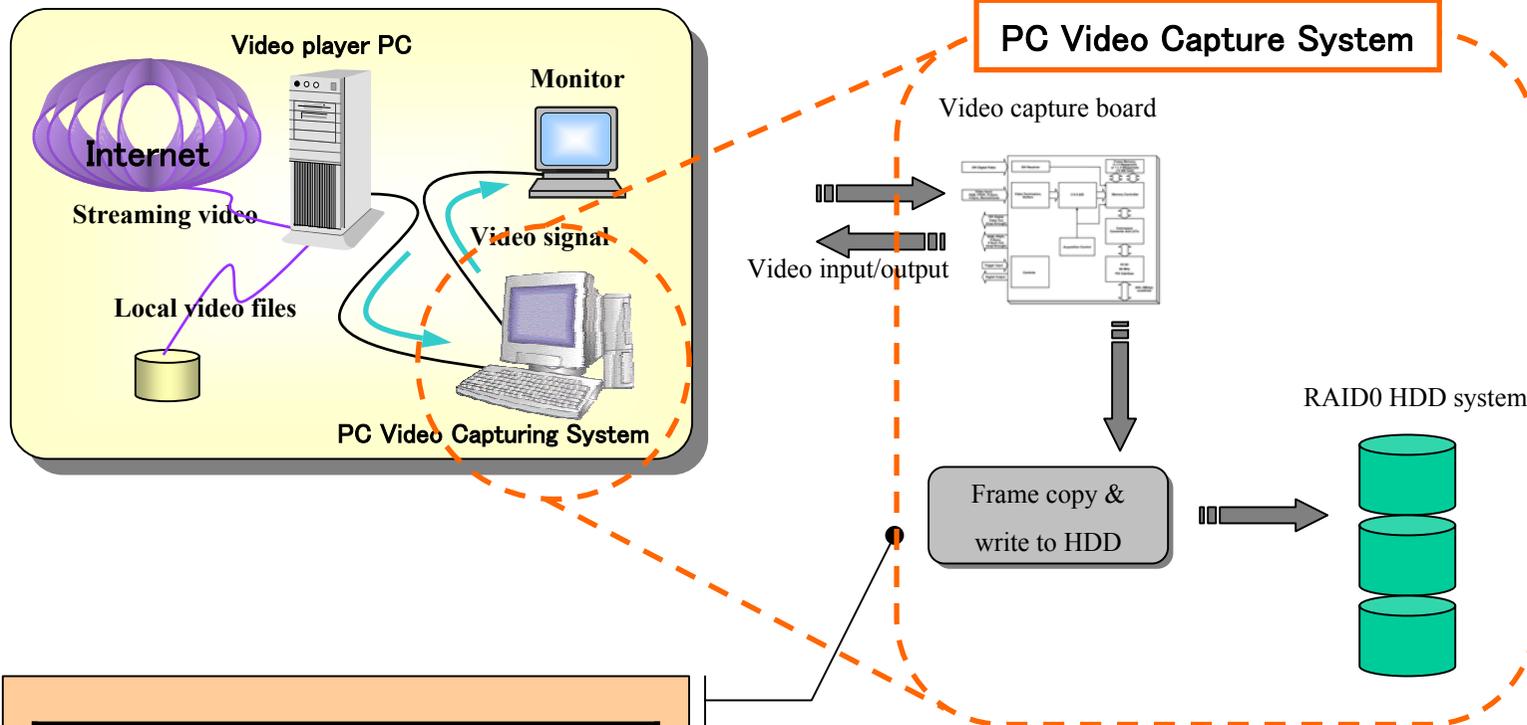
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# PC Video Capturing System

PIFCAP 1.0

Technical  
Specifications  
Oct. 12, 2004

# System Components



CPU	Pentium IV 3.2 GHz or higher
Memory	1 GB or more
OS	Windows XP/2000
HDD	RAID0 system
	Frame grabber board
Video input	DVI/VGA

# Functions

## 1. Capturing Video Size, Color, and Frame Rate

Capturing Video Size	Color (bits)	Frame Rate (fps)
QVGA (320 x 240)	24	30
VGA (640 x 480)	24	30
SVGA (800 x 600)	24	15
XGA (1024 x 768)	24	10

## 2. Output Video Format

File Format	Codec
Reference AVI	No compression
AVI	No compression
Compression AVI	E.g., MS-MPEG4
YUV(YV12)	-

# Functions

## 3. User Interface

The screenshot shows the PIFCAP application window overlaid on a Windows Media Player window. The PIFCAP window contains the following elements:

- Window Title:** PIFCAP
- Coordinates and Size:** X: 573 ~ 892, Y: 91 ~ 330, Size: 320 x 240.
- Resolution Selection:** Buttons for VGA and QVGA.
- Frame Rate:** Target frame rate set to 30.
- Output Settings:** Output folder: C:\Develop\PIFCAP\Release; Output filename: デフォルトのファイル名.
- Options:** Checkboxes for 'キャプチャ映像のプレビュー' (checked) and '出力ファイル名に作業日時を使う' (checked).
- Buttons:** キャプチャー開始, キャプチャー停止, 終了.

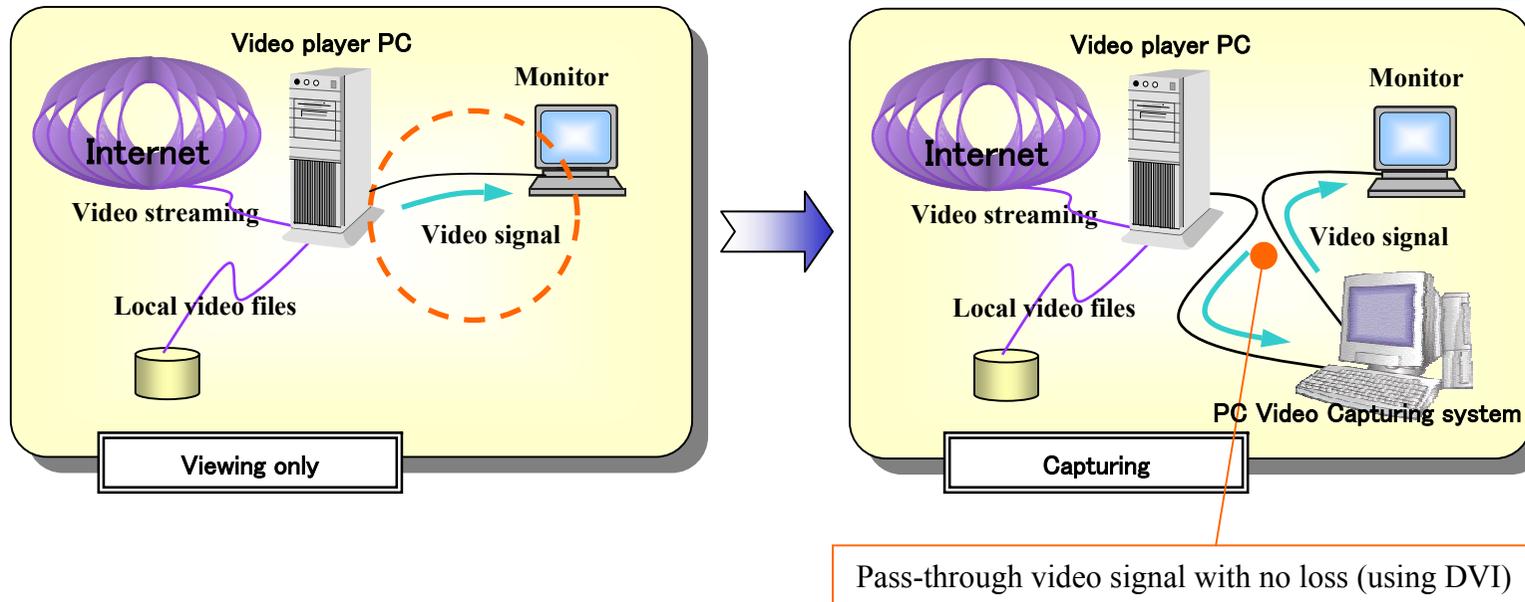
Labels on the right side of the image point to these features:

- You can select a specific area. (points to the selection box)
- Pixel coordinates (points to X and Y fields)
- Preview (points to the preview window)
- Capturing frame rate (points to the frame rate field)
- Output file folder (points to the folder path)
- Output file name (points to the filename)
- Preview on/off (points to the preview checkbox)
- Option check-box (sets output file name to execution time) (points to the date-time checkbox)
- Quit (points to the 終了 button)
- Stop (points to the キャプチャー停止 button)
- Start (points to the キャプチャー開始 button)

※User interface is under construction.

# Special Features

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



## 2. Capturing video from every video player

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,  
...

# Special Features

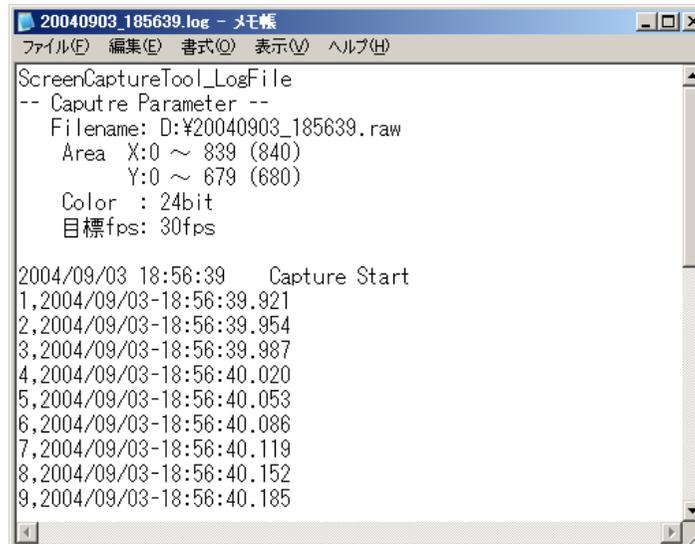
## 3. Capturing post processed video data

- 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:



```
20040903_185639.log - メモ帳
ファイル(F) 編集(E) 書式(O) 表示(V) ヘルプ(H)
ScreenCaptureTool_LogFile
-- Capture Parameter --
Filename: D:\¥20040903_185639.raw
Area X:0 ~ 839 (840)
      Y:0 ~ 679 (680)
Color : 24bit
目標fps: 30fps

2004/09/03 18:56:39 Capture Start
1,2004/09/03-18:56:39.921
2,2004/09/03-18:56:39.954
3,2004/09/03-18:56:39.987
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
```