

Color Filtering Software for YCbCr Signal

Powered by original computing algorithm "DMNA" based on mathematical methods

1 Abstract

- TMC developed Color Filter software for improving video quality on potable devices.
- Color Filter, when processed on decoding stream, makes "foggy" picture of 1seg TV clear, sharp, and vivid (more blue for sky and more green for plants).
- Color Filter additionally functions anti-jaggy, emphasizes edge of characters, and makes picture lively.
- Based on optimized algorithm, it realizes faster processing speed and lower CPU load.

Color Filter
DMNA

2 Target Specifications

- Input Video Format: YCbCr4:2:0
- Output Video Format: YCbCr4:2:0 or RGB
- Parameter: White Balance, Contrast, Gamma Correction, Sharpness, Dithering etc.

3 Features

- DMNA reduces the amount of calculations by 1/3 to 1/50
- Lower CPU load and power consumption
- Developed in standard C code
- Able to run on various kinds of processors (ARM, MIPS, SH, DSP etc)



Before Color filtering



After Color filtering

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