Main Features

1. 15 Objective Metric + 5 Plugins
- PSNR several versions, Spatio-Temporal SSIM
- MSAD, MSU Blurring Metric
- Delta, MSU Brightness Flicking Metric
- MSE, MSU Brightness Independent PSNR
- SSIM, MSU Drop Frame Metric
- VQM, MSU Noise Estimation Metric
- MS-SSIM, MSU Scene Change Detector
- 3-SSIM, MSU Blocking Metric

2. More Than 30 Supported Formats, Extended Color Depth Support
- *.AVI, *.YUV
- *.MKV, *Y4M:
- *.MOV, YUV
- *.VOB, YV12
- *.MP4, IYUV
- *.FLV, UVYV
- *.QT, Y
- *.OGV, YUY2
- *.WMV, *.BMP
- etc.,

3. Multi-core Processors Support
- MMX, SSE and OpenMP Optimizations

4. Comparative Analysis
- Comparison of 3 files at a time and more with the CLI interface

5. ROI Support
- Metric calculation for ROI (Region of Interest)

6. GPU Support & 64-bit support
- Up to 13 times speedup on CUDA-enabled GPU’s and up to 10% speedup with the 64-bit machines making MSU VQMT fastest video comparison tool

7. GUI & Batch Processing
- GUI and command line tools

Visualization Examples

Allows easily detect where codec/filter fails

Y-YUV PSNR

Y-YUV Delta

MSU Blurring Metric

MSU Blocking Metric

Y-YUV MSE

VQM

8. Plugins Interface
- You can easily develop your own metric

9. Universal Format of Results
- Results are saved in *.csv files

10. HDTV Support

11. Metric Visualization
- Fast problem analysis, see examples above.

MSU VQMT Official Page
Tool was downloaded more than 100 000 times!
Free and Professional versions are available

Big thanks to our contributors: