**华中电力项目视频质量诊断算法返回值调整为0至100**

模糊检测、噪声检测、亮度检测和偏色检测返回结果为[0,100],信号丢失和视频冻结保持不变。

**原返回值：**

|  |  |  |
| --- | --- | --- |
| 算法 | 参数范围 | 默认阈值 |
| 模糊检测 | sigma范围[0,+∞] | 1.4和20 |
| 噪声检测 | nosielevel范围[0,+∞] | 3和20 |
| 亮度检测 | brightlevel范围[-1,1] | -0.5与0.5 |
| 偏色检测 | dev范围[0,1] ratio范围[0,2] | 0.35与0.5 |

**转换之后返回值：**

|  |  |  |
| --- | --- | --- |
| 算法 | 转换公式 | 默认阈值 |
| 模糊检测 |  | 1.4和20 |
| 噪声检测 |  | 3和20 |
| 亮度检测 |  | 25和75 |
| 偏色检测 | ratiomax=max{rratio,gratio,bratio}  devmax=max{rdev,gdev,bdev}  devavg=(rdev+gdev+bdev)/3  if ratiomax>0.35  castvalue= ratiomax\*30.3+39.4  else if devmax>0.5  castvalue=devmax\*100  else //不偏色  castvalue=devavg\*100 | 50 |

**天津运维项目**

每个应用提供一个灵敏度，通过灵敏度调节应用的阈值。

void BrightSensitivity\_thresh(float \*pDarkthresh,float \*plightthresh,float brightSensitivity)

{

if (brightSensitivity>=50)

{

\*pDarkthresh=-0.5\*brightSensitivity+50;

\*plightthresh=-1.5\*brightSensitivity+150;

}

else

{

\*pDarkthresh=-0.5\*brightSensitivity+100;

\*plightthresh=-1.5\*brightSensitivity+100;

}

}

void ClearSensitivity\_thresh(float \*pClearLevellowthresh,float \*pClearLevelhightthresh,float clearSensitivity)

{

if (clearSensitivity>=50)

{

\*pClearLevellowthresh=-0.028\*clearSensitivity+2.8;

\*pClearLevelhightthresh=-0.4\*clearSensitivity+40;

}

else

{

\*pClearLevellowthresh=-1.972\*clearSensitivity+100;

\*pClearLevelhightthresh=-1.6\*clearSensitivity+100;

}

}

void NoiseSensitivity\_thresh(float \*pNoiseLevellowthresh,float \*pNoiseLevelhighthresh,float noiseSensitivity)

{

if (noiseSensitivity>=50)

{

\*pNoiseLevellowthresh=-(3\*noiseSensitivity)/50+6;

\*pNoiseLevelhighthresh=-0.4\*noiseSensitivity+40;

}

else

{

\*pNoiseLevellowthresh=-(97\*noiseSensitivity)/50+100;

\*pNoiseLevelhighthresh=-1.6\*noiseSensitivity+100;

}

}

void CastSensitivity\_thresh(float \*pCastthresh,float castSensitivity)

{

\*pCastthresh=-castSensitivity+100;

}