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(Debug) In[47]:= ClearAll["Global`*"];
Needs["PlotLegends`\"](* PlotLegends is now obsolete*)
Evaluate[{FileNameSetter[Dynamic[datafilename1]], Dynamic[datafilename1]}]
If[FileExistsQ[datafilename1], Print["File exists " datafilename1],
Print["This File does not exist"]; Quit[]];
data1 = Import[datafilename1];

memoryTem = 0;
mtxw = 320; mtxh = 240; sw = 8; sh = 8;
redw = Round[mtxw / sw]; redh = Round[mtxh / sh];
Temperaturethreshold = 0.3; showmesh = False;

ImageSizeLocal = 450;
colorsGoody = {RGBColor[0.05374, 0, 0.333], RGBColor[0.0979, 0, 0.467],
RGBColor[0, 0, 1], RGBColor[0.2, 1, 0.96], RGBColor[0, 0.93, 0.07519],
RGBColor[1, 1, 0], RGBColor[1, 0, 0], Darker[RGBColor[1, 0, 0], .4]};

For[i = 1, i ≤ mtxw, i++, {
  For[j = 1, j ≤ Round[mtxh / 2], j++, {
    memoryTem = data1[[{(i - 1) * mtxh + j, 3}]];
    data1[[{(i - 1) * mtxh + j, 3}]] = data1[[{(i - 1) * mtxh + (mtxh + 1 - j), 3}]];
    data1[[{(i - 1) * mtxh + (mtxh + 1 - j), 3}]] = memoryTem;
  }]
}
Print["CheckPoint#1 - the matrix
rotation was done - {1..320,1..240}→{1..320,240..1}"]
ListDensityPlot[data1, PlotRange → All, ColorFunction → (*colorsGoody*)
GrayLevel, Mesh → showmesh, Mesh → {redw - 1, redh - 1},
ImageSize → ImageSizeLocal, ClippingStyle → Automatic,
PlotLegends → Automatic, ColorFunctionScaling → True, InterpolationOrder → 0]

Mask43 = ArrayReshape[Transpose@ArrayReshape[ArrayReshape[
  Transpose@ArrayReshape[Table[i, {i, mtxw * mtxh}], {mtxw, mtxh}],
  {redw, mtxh, sw}], {mtxh, redw, sw}], {redw, redh, sw * sh}];

If[Mask43[[redw, redh, sw * sh]] == mtxw * mtxh,
Print["CheckPoint#2 - excellent"], Print["CheckPoint#2 - failed!"]]

data2 = data1; Clear[data1];
arrenged = Array[{#/ #} &, {redw, redh, 3}];
For[i = 1, i ≤ Length[arrenged], i++, {
  For[j = 1, j ≤ Length[arrenged[[i]]], j++, {
    arrenged[[i, j, 1]] = (i - 0.5) * sw;
    arrenged[[i, j, 2]] = sh * (j - 0.5);

    arrenged[[i, j, 3]] =
      Sum[data2[[Mask43[[i, j, a]], 3]], {a, sw * sh}] * (1 / (sw * sh));
    noiseF[x_, av_] := x - av;
    For[a := 1, a ≤ (sw * sh), a++, {data2[[Mask43[[i, j, a]], 3]] =
      noiseF[data2[[Mask43[[i, j, a]], 3]], arrenged[[i, j, 3]]];}]
  }]
}

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}]

Clear[arrenged, Mask43];
For[i = 1, i <= Length[data2], i++,
  If[Abs[data2[[i, 3]]] > Temperaturethreshold, data2[[i, 3]] = 0]]

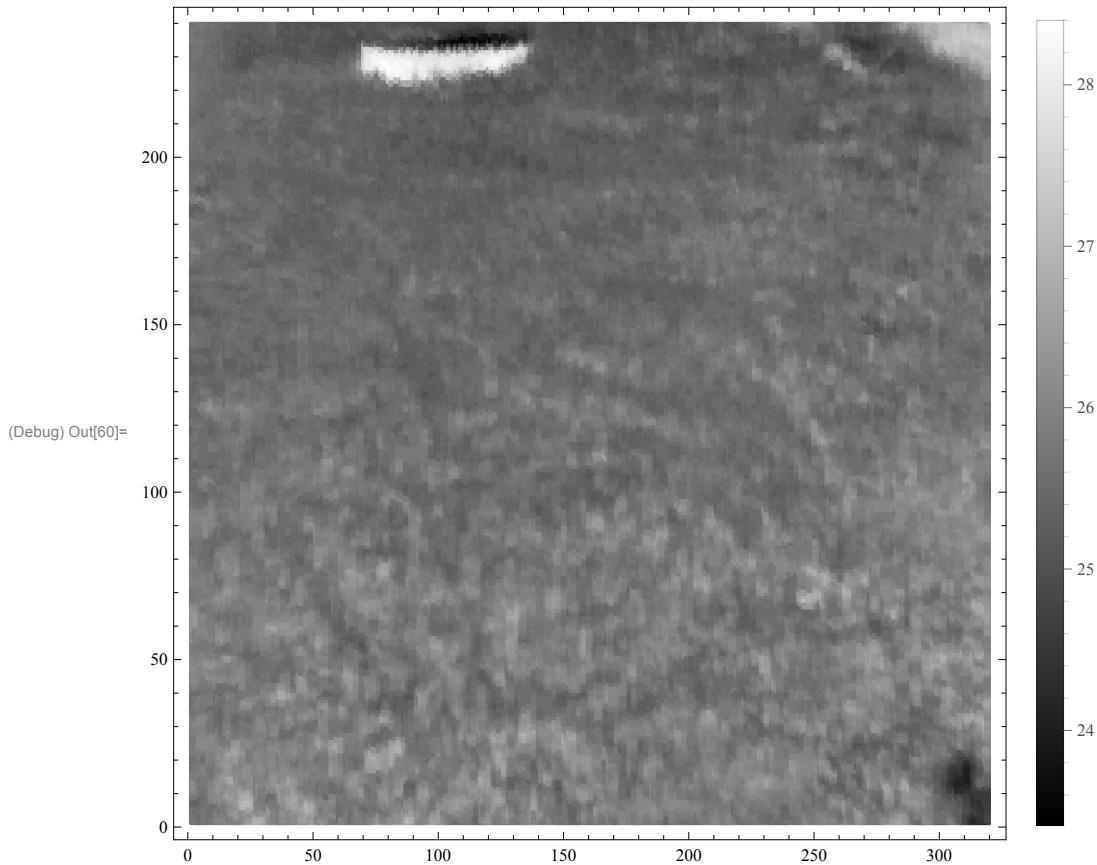
ListDensityPlot[data2, PlotRange -> All,
  ColorFunction -> (*colorsGoody*)GrayLevel, Mesh -> showmesh,
  Mesh -> {redw - 1, redh - 1}, ImageSize -> ImageSizeLocal,
  ClippingStyle -> Automatic, PlotLegends -> Automatic,
  ColorFunctionScaling -> True, InterpolationOrder -> 0]
(*ListPointPlot3D[data1,ColorFunction->Function[{x,y,z},Hue[-z]]]*)
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Clear[data2];
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(Debug) Out[49]=  C:\A\Notes\PRG\W\gjIR000110.dat

C:\A\Notes\PRG\W\gjIR000110.dat File exists

CheckPoint#1 - the matrix rotation was done - {1..320,1..240}->{1..320,240..1}



CheckPoint#2 - excellent

