```
In[12]:= Manipulate[Framed[Show[img, ImageSize → 550]],
        Item[" ", ControlPlacement → Top],
        Item[Row[{" ", Style["                              ", {Red, 25, Bold}],
            "  "}, Spacer[220]], ControlPlacement → Top],
        Delimiter, Item["\n ", ControlPlacement → Top],
        Item[Style["              ", {20, Blue}],
         ControlPlacement -> Right], Delimiter,
        Item[Grid[{{Control[{{t1, Null, "T"}, InputField[#, FieldSize → 9.6] &}],
            Control[{{x1, Null, "X"}, InputField[#, FieldSize → 9.6] &}],
            Button[Style["   ", Red], Module[{indata, data = {}},
              indata = {{t1, x1}, {t2, x2}, {t3, x3}};
              Do[If[(! SameQ[indata[[i, 1]], Null]) && (! SameQ[indata[[i, 2]], Null]),
                data = Append[data, {indata[[i, 1]], indata[[i, 2]],
                  NumberForm[N[(2 π / indata[[i, 1]])^2 indata[[i, 2]]], {4, 3}],
                  Row[{NumberForm[
                    100 Abs[(2 π / indata[[i, 1]])^2 indata[[i, 2]] - 9.8] / 9.8, {4, 3}], "%"}]
                  }]],
                {i, 1, 3}];
              data = Prepend[data, {"    T/s", "    X/m", "          g/(m/s^2)", "        "}];
              CreateDialog[Grid[data, Frame → All]]], ImageSize → {83, 25}],
            Button[Style["   ", Red],
             t1 = t2 = t3 = x1 = x2 = x3 = Null, ImageSize → {83, 25}]},
          {Control[{{t2, Null, ""}, InputField[#, FieldSize → 9.6] &}],
           Control[{{x2, Null, ""},
             InputField[#, FieldSize → 9.6] &}]},
          {Control[{{t3, Null, ""}, InputField[#, FieldSize → 9.6] &}],
           Control[{{x3, Null, ""},
             InputField[#, FieldSize → 9.6] &}]}},
         Spacings → {{0, 2.5, 2.5, 2.5, 0}, {Automatic}},
         Alignment → Right], ControlPlacement → Right],
        Delimiter,
        Delimiter,
        Item[Row[{Button["   CCD", CreateDialog[Show[CurrentImage[], ImageSize → 700]],
            ImageSize → {83, 30}], Button["   ", CreateDialog[Dynamic[Show[CurrentImage[],
              ImageSize → 700]]], ImageSize → {83, 30}],
          Button["   ", img = CurrentImage[], ImageSize → {83, 30}],
          Button[Style["   ", {Red}], (*TODO*)
          Module[{indata, 1, data = {}, report = {{"   T(s)", "   ω(rad/s)", "   f(cm)", ⋮},
            {⋯, ⋯, "   :", "   :"}}},
           indata =
             {{ω1, p1}, {ω2, p2}, {ω3, p3}, {ω4, p4}, {ω5, p5}, {ω6, p6}, {ω7, p7}, {ω8, p8}};
           Do[If[! SameQ[indata[[i, 1]], Null] && ListQ[indata[[i, 2]]],
             data = Append[data,
               {2 π / indata〚i, 1〛,
                (2 √((indata〚i, 2, 3, 1〛 - indata〚i, 2, 4, 1〛)^2 + (indata〚i, 2, 3, 2〛 - indata〚i,
                    2, 4, 2〛)^2)) / (√((indata〚i, 2, 1, 1〛 - indata〚i, 2, 2, 1〛)^2 +
```
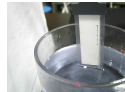
```
                    (indata〚i, 2, 1, 2〛 - indata〚i, 2, 2, 2〛)²))}]],

        {i, 1, 8}]; l = Length[data]; Do[report = Append[report, {─────── ,
                                                                  data[[i, 1]]

              100 g
        N[data[[i, 1]]], data[[i, 2]], ───────── }], {i, 1, l}];
                                       2 data[[i, 1]]²

      report = Transpose[report];
      CreateDialog[(*TODO*) If[Length[data] ≠ 0, Column[{Grid[report, Frame → All],

            "\n", Show[Plot[ 100 g , {ω, 2 π, 6 π}], ListPlot[data] , ImageSize → 400]}],
                            2 ω²

          "          "]

      ]], ImageSize → {83, 30}], Button[Style["    ", Red],
      ω1 = p1 = ω2 = p2 = ω3 = p3 = ω4 = p4 = ω5 = p5 = ω6 = p6 = ω7 = p7 = ω8 = p8 = Null
      , ImageSize → {83, 30}]}, Spacer[20]], ControlPlacement → Right],
Delimiter,
Item[Grid[{
    {Style["    /s", {20, Blue}], Style["    ", {20, Blue}]},
    {Control[{{ω1, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p1, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω2, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p2, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω3, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p3, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω4, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p4, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω5, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p5, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω6, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p6, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω7, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p7, Null, ""},
        InputField[#, FieldSize → 35] &}]},
    {Control[{{ω8, Null, ""}, InputField[#, FieldSize → 7] &}],
     Control[{{p8, Null, ""},
        InputField[#, FieldSize → 35] &}]}
  }, Frame → All], ControlPlacement → Right], SaveDefinitions → True,

Initialization :→ (g = 9.8; img =          ; )]
```
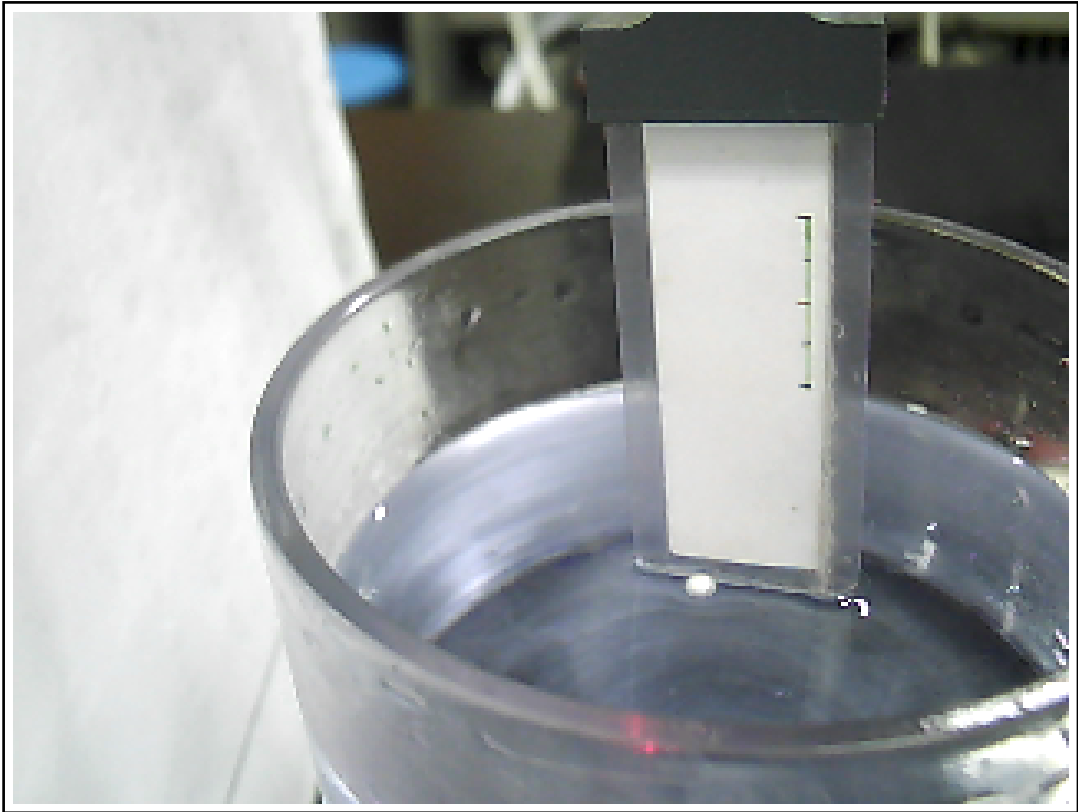
Out[12]=