Diagnosing a Reflection in a Model IR Reading

Scoring guide · one credit per question · review written work against each rubric

Diagnosing a Reflection in a Model IR Reading

Question 1

Choice (2)

The screen changes the signal substantially without changing the polished panel’s contact temperature. That is consistent with added reflected radiation from the screen.

Question 2

The matte panel rises by 41 − 40 = 1 signal unit. The polished panel rises by 48 − 30 = 18 signal units.

Question 3

Choose the matte panel under the tested conditions. Changing the screen changed its signal by only 1 unit, compared with 18 units for the polished panel.

Question 4

Record the contact temperature and infrared signal at the same time as the surroundings change. If the infrared reading changes but the contact temperature does not, the infrared change is evidence of an effect other than panel warming.