

DOPPLER CONTROLS MATCHING

STUDENT WORKSHEET | Fillable PDF

Name Date

Match each control in Column 1 with its definition in Column 2. Enter one letter (A-H) beside each control. Use each letter once.

COLUMN 1 CONTROLS	COLUMN 2 DEFINITIONS
1. Doppler Gain	A. Blends earlier color frames with the current frame to smooth flicker; higher settings reduce responsiveness to rapid changes.
2. Doppler Filters	B. Sets the displayed frequency or velocity range; in pulsed Doppler, it is linked to pulse repetition frequency (PRF).
3. Baseline	C. Changes the range of signal amplitudes represented by gray shades in the spectrum, altering displayed contrast.
4. Scale	D. Adjusts the strength or brightness of displayed Doppler signals; excessive settings can show noise or color bleed.
5. Invert	E. Reverses the displayed orientation or color assignment for toward and away flow without changing actual flow direction.
6. Color Persistence	F. Selectively suppress unwanted frequency components; the wall/clutter filter reduces low-frequency motion signals.
7. Color Edge Enhancement	G. Emphasizes image transitions so the margins of color flow regions appear sharper.
8. Spectral Dynamic Range	H. Moves the zero-shift reference to allocate more display space to one direction without increasing the total sampled range at a fixed PRF.

Study tip: Consider whether each control changes signal strength, frequency filtering, display position, velocity range, direction orientation, frame averaging, edge appearance, or spectral contrast.

Complete electronically in a PDF reader that supports form fields. Save the completed PDF before submitting. You may also print it and write in the letters.