



HP Mobile Calculating Lab Advanced Kit

The powerful, easy to use HP MCL Advanced Kit brings science and math to life.



The HP MCL measures up

Engage your students' scientific inquiry with hands-on experiments collecting and analyzing real-world data in real time. As data streams from included Fourier sensors measuring distance, light, temperature, sound, pressure, force, pH, and humidity, visualize experiment results immediately. This turnkey solution includes the HP 39gs Graphing Calculator, the HP StreamSmart 410, Fourier sensors, and the MCL activity book. It's an ideal solution for the STEM classroom.

Connect math and science to everyday physical phenomena

- Collect data from up to four sensors simultaneously, at an astounding 5,500 samples/second¹
- Obtain the optimal view of the data stream in real time – speed up, slow down, zoom in or out, without stopping to adjust settings

Set up quickly and easily

- Connect the HP StreamSmart 410 to the HP 39gs Graphing calculator and up to four of the selected Fourier sensors
- With virtually no set-up, spend less time getting to the results and more time discussing the data

Perform your experiments with ease and flexibility

- Lightweight and ultra compact
- A portable lab — Ideal for experiments in the classroom or in the field

HP quality and support

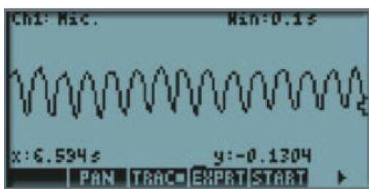
HP's legendary quality and reliability offer you peace of mind. Get the most from your calculator solutions – visit www.hp.com/calculators for more information.

THE COMPUTER
IS PERSONAL
AGAIN.



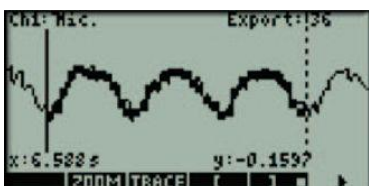
HP Mobile Calculating Lab — Advanced Kit

BRING YOUR CLASSROOM TO LIFE! IT'S AS EASY AS 1, 2, 3.



1. Plug-in

Connect a sensor to the HP StreamSmart 410, connect the StreamSmart 410 to you HP graphing calculator, and start the StreamSmart Aplet.



2. View, zoom and crop

Zoom and pan (scroll) to the data you want to keep. You can even zoom and pan while the experiment is running! You can also crop and thin your data set.

n	C1	C2	C3	C4
1	6.5685	-.1286		
2	6.5684	-.0701		
3	6.5696	-.0171		
4	6.5702	-.0049		
5	6.5708	-.0043		
6	6.5713	-.0134		
7	6.5685			

3. Export and analyze

Send your final data to the Statistics Aplet for analysis. Here you can view summary statistics, plot your data, or fit a model to your data.



HP 39gs Graphing Calculator



HP StreamSmart 410



Fourier³ — Distance sensor

HP Mobile Calculating Lab — Advanced Kit		Part number: NW252AA#ABA	Quantity in Kit
HP 39gs Graphing Calculator and User Guide	Developed by teachers for effective teaching and learning		1
HP StreamSmart 410 and User Guide	Four ports for multisensor experiments, small and ultra-portable		1
HP MCL Middle Grades Activity Book	Thirteen lesson plans for experiments are included.		1
8-pin mini-DIN cables	Connects the HP StreamSmart 410 and HP 39gs		2

Fourier Sensors ³	Range	Quantity in Kit
• Fourier Distance Sensor	0.2–10m	1
• Fourier Light Sensor	3 scale - 0–600, 0–6,000, 0–150,000 lux	1
• Fourier Temperature Sensor	-25 - 110° NTC Thermistor	2
• Fourier Microphone Sensor	+/-2.5V	1
• Fourier Gas Pressure Sensor	0–700 kPa (0–6.9 atm or 0–7000 mbar)	1
• Fourier Force Sensor	+/-10N, +/-50N	1
• Fourier Photogate Sensor	0–5V (Digital)	1
• Fourier pH and Electrode Sensor	0–14 pH	1
• Fourier Humidity sensor	0–100%	1

For more information on the HP Mobile Calculating Lab, visit: www.hp.com/go/MCL

1. Rate based on one port in use. Rates may vary based on number and type of sensor.
2. Please download curriculum pack activities at www.hp.com/go/mcl
3. Information on Fourier sensors can be found at: www.fourierEDU.com