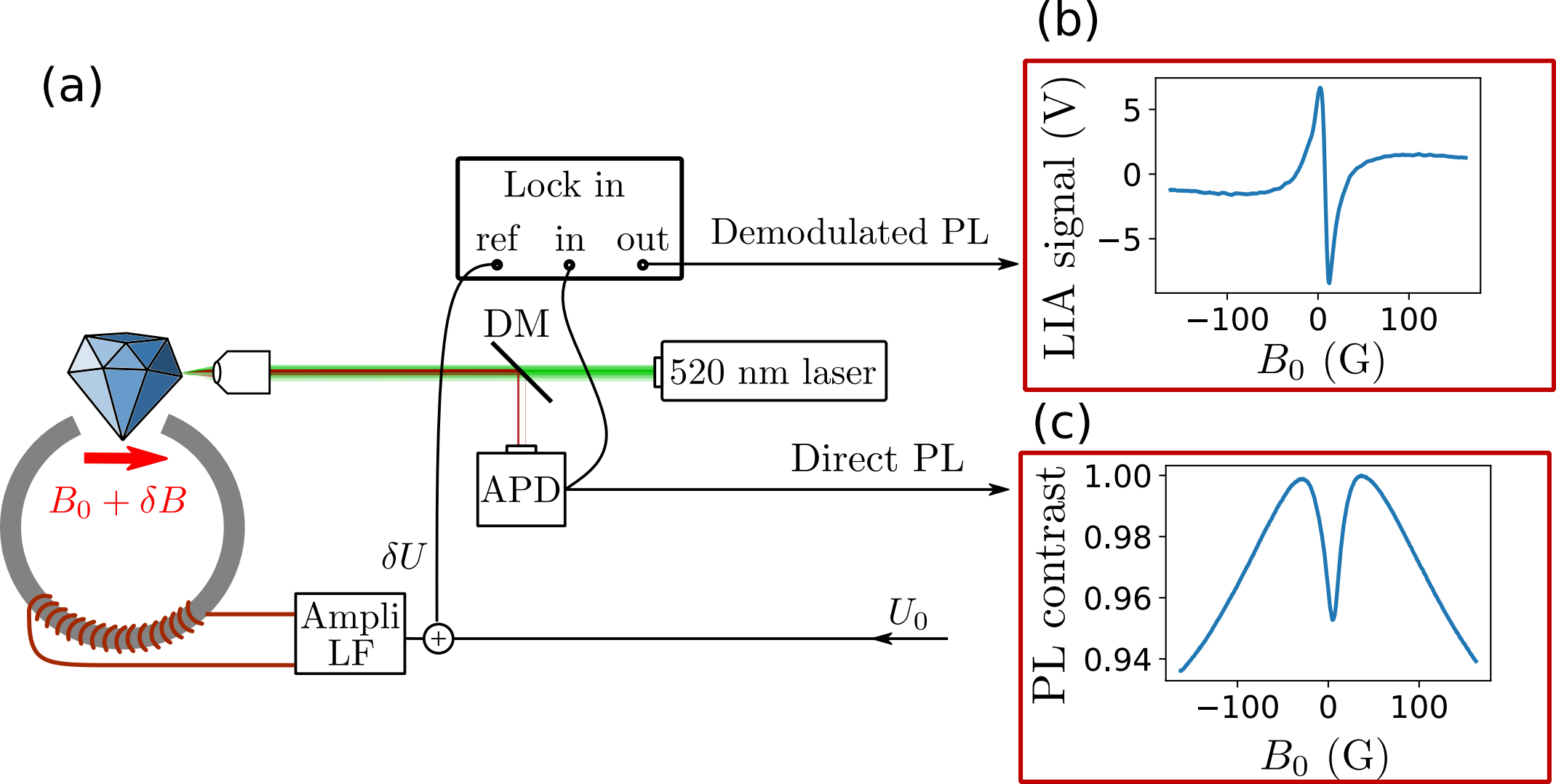
(a)
Lock in
ref
in
out
Demodulated PL
DM
520 nm laser
APD
Direct PL
$B_0 + \delta B$
δU
Ampli
LF
U_0
(b)
LIA signal (V)
5
0
−5
−100
0
100
B_0 (G)
(c)
PL contrast
1.00
0.98
0.96
0.94
−100
0
100
B_0 (G)