Top view

Receiver module

Test mass

$V_{RxPD}$

Main interferometer beam

Incident angle $\theta$

$V_{TxPD}$

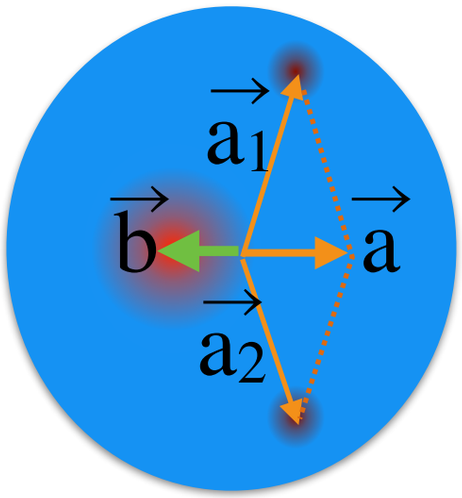
Beam sampler

Front view

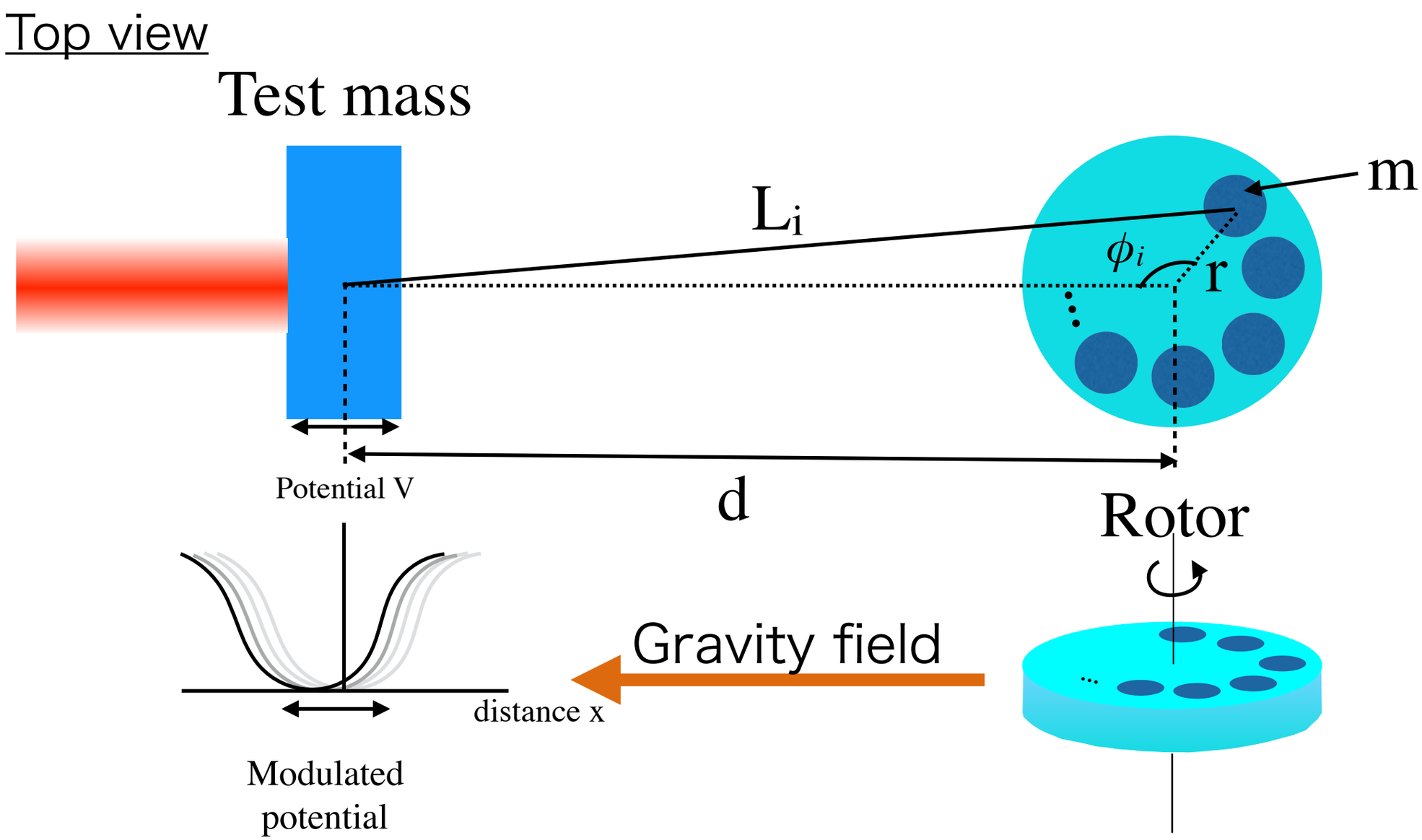
Stabilized laser

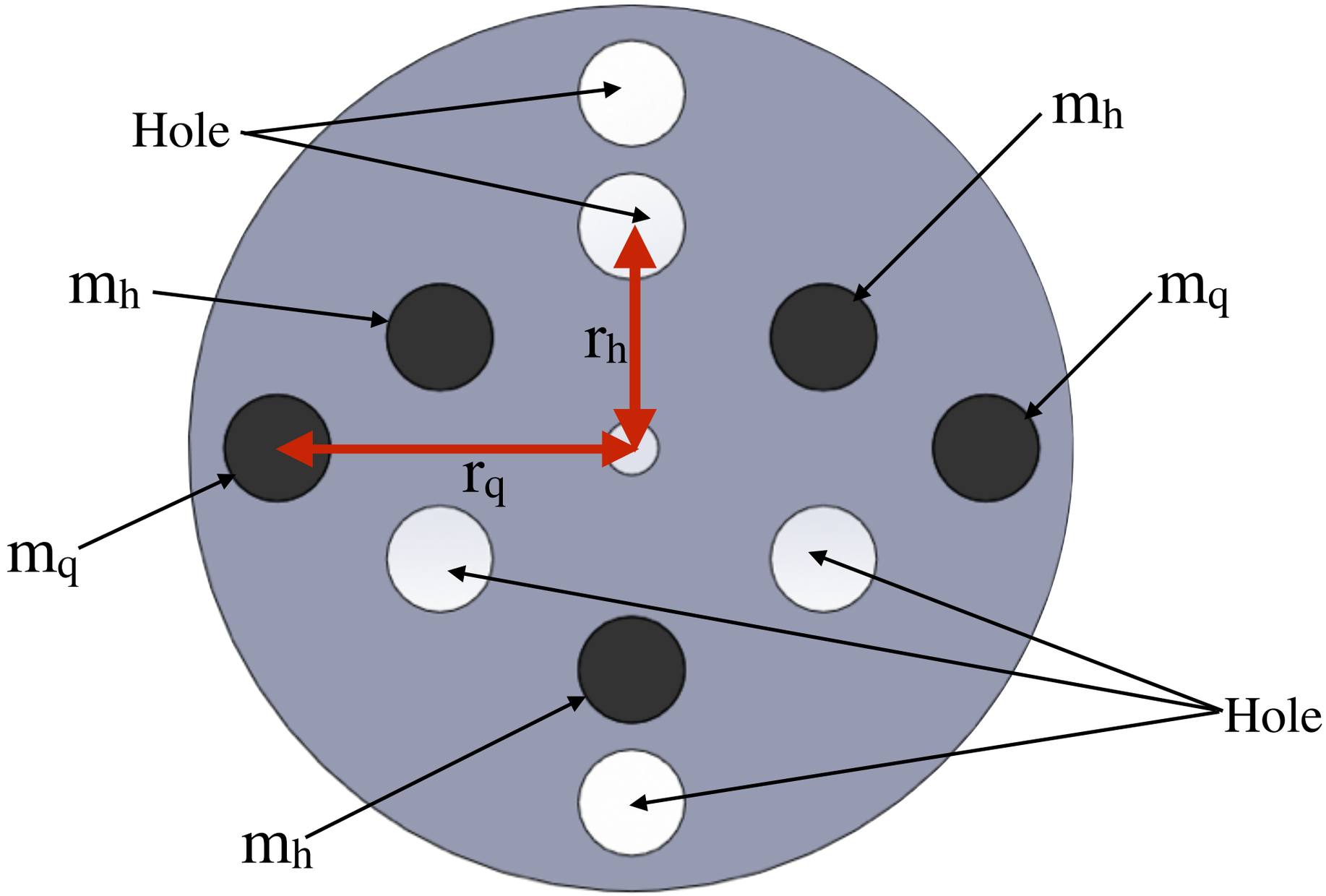
Reference signal

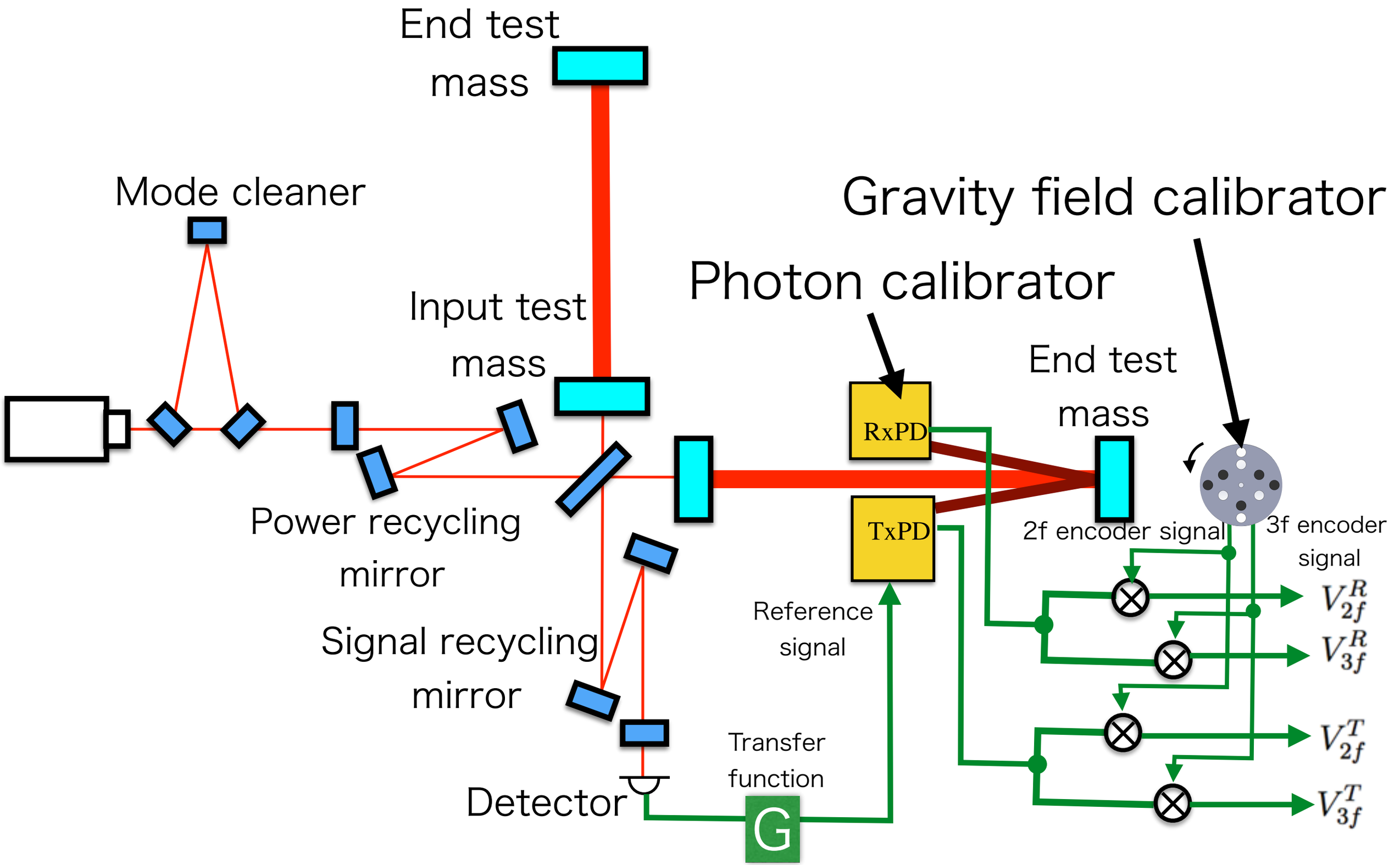
Transmitter module

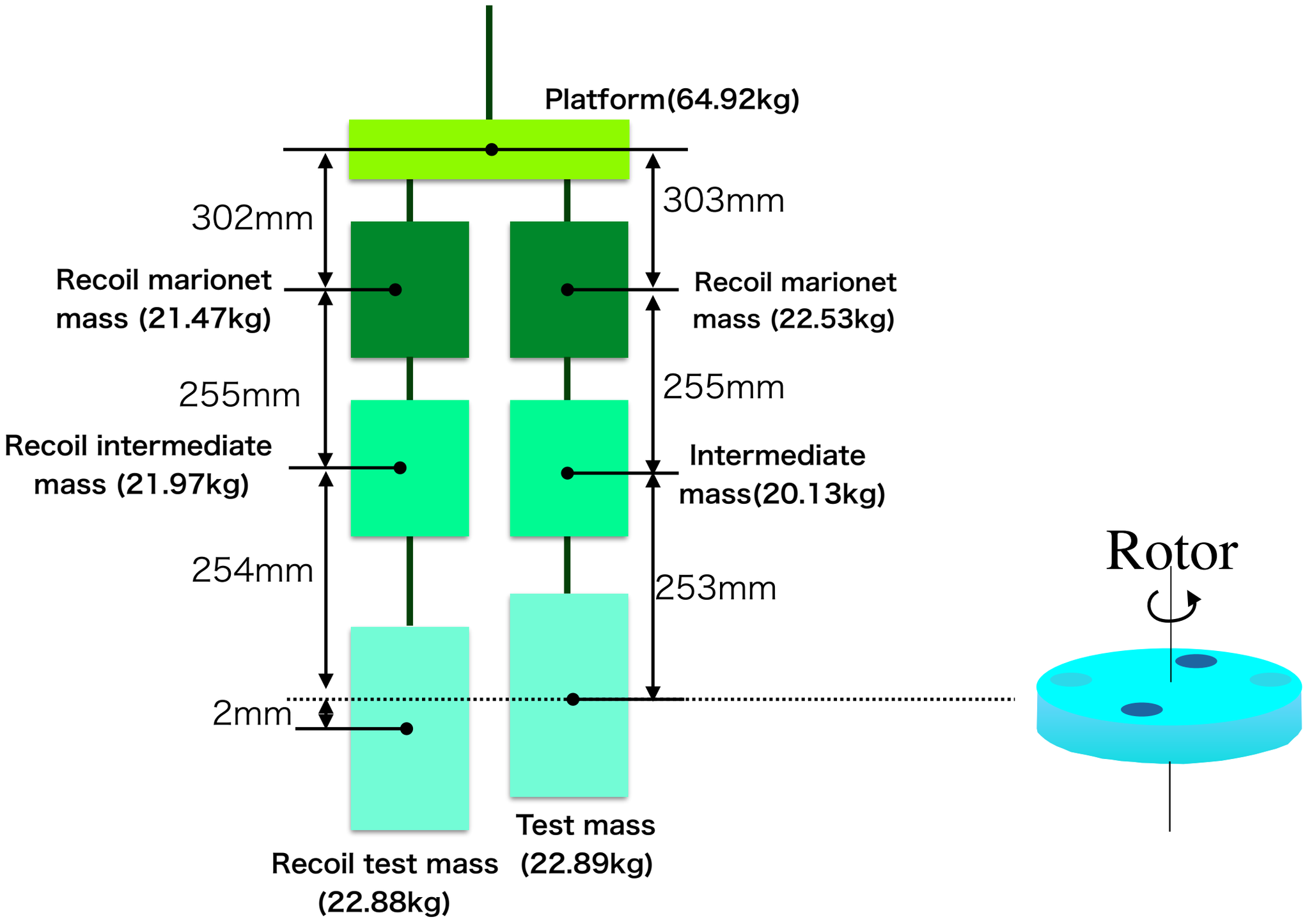


Top view


Test mass
$L_i$
m
$\phi_i$
r
Potential V
d
Rotor
Gravity field
distance x
Modulated
potential


Hole
$m_h$
$m_h$
$m_q$
$r_h$
$r_q$
$m_q$
Hole
$m_h$


End test mass
Mode cleaner
Input test mass
Gravity field calibrator
Photon calibrator
End test mass
RxPD
TxPD
2f encoder signal
3f encoder signal
Power recycling mirror
Signal recycling mirror
Reference signal
Transfer function
Detector
G
$V_{2f}^R$
$V_{3f}^R$
$V_{2f}^T$
$V_{3f}^T$


Platform(64.92kg)
302mm
303mm
Recoil marionet
mass (21.47kg)
Recoil marionet
mass (22.53kg)
255mm
255mm
Recoil intermediate
mass (21.97kg)
Intermediate
mass(20.13kg)
254mm
253mm
2mm
Recoil test mass
(22.88kg)
Test mass
(22.89kg)
Rotor