CLAIMS

1. A plasma processing chamber, comprising:

an optical sensing system passing through a wall of the plasma processing chamber, wherein the optical sensing system comprises:

a lens;

an optically clear body adjacent to the lens, wherein the optically clear body comprises:

a first surface that faces the lens;

a second surface opposite from the first surface; and

a third surface recessed into the second surface, wherein the third surface faces a center of the processing chamber;

a target over the third surface; and

a first reflector embedded in the optically clear body.

2. The plasma processing chamber of claim 1, wherein the optical sensing system is configured to provide a plasma condition, a wall condition, a substrate condition, or any combination thereof.

3. The plasma processing chamber of claim 1, further comprising a plurality of optical sensing systems.

4. The plasma processing chamber of claim 1, further comprising:

a light source optically coupled to the optically clear body; and

an optical detector optically coupled to the optically clear body

5. The plasma processing chamber of claim 1, wherein the target is outside of the optically clear body and within the plasma processing chamber.