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One-Way Transparent Mirror

A transparent mirror allows undetected observation of an adjoining area when used in conjunction with differential lighting ratios. This product is ideal for prison control rooms, interrogation rooms, inmate observation areas, psychiatric or clinical observation, general surveillance or any application that requires undetected observation.

To ensure optimum performance the subject side must be brighter than the viewer side. Under these conditions transparent mirror appears to be a mirror from the subject side and transparent glass from the viewer side. Viracon recommends a light ratio of 10:1 (subject:viewer) on units that incorporate clear glass and 5:1 on units than use grey glass. Lighting ratios may have to be adjusted to compensate for variable project conditions such as wall colors, types of lighting and the distance between the observed subject and transparent mirror. Point source lighting on the viewer side must be avoided.

Substrate Color	Light Ratio	
	Preferred	Acceptable
Clear	10:1	5:1
Grey	5:1	2:1

In a laminated product the coating should always be applied to clear glass and placed as close to the subject side as possible without exposing it (#2 surface). If a grey laminated product is specified, the gray glass or gray PVB should be placed to the viewer side of the coating.

Example Product

9/16" VS1-08 Laminated

1/4" Clear with VS-08 #2

.060" clear pvb

1/4" Gray glass

Performance

Light Transmittance	Reflection out (Subject)	Reflection In (observer)
4%	42%	12%