

Lens formulas TLD lenses

These are the lens formulas for TLD and TLD HB lenses.

- For SLM, the reference point on the projector is the front of the cabinet (the ring around the lens).
- For RLM, the reference point on the projector is the front of the bottom bar of the rigging system (flat surface below the lens).
- For FLM, the reference is the plane in which the front IR receiver is mounted.

For RLM G5/G5+/H5, an optical adapter is required

All measurements in meter

SLES – NICC rev. 02/05/06

TLD 0.8:1

SLM G5/G8/G10	PD = 0.85 x SW + 0.05
SLM R6/R8/R10	PD = 0.84 x SW + 0.05
SLM R12+ / FLM R20+	PD = 0.77 x SW + 0.05
FLM HD18	PD = 0.71 x SW + 0.05
RLM G5/G5+	PD = 1.06 x SW + 0.07
RLM H5	PD = 0.84 x SW + 0.07
RLM R6+	PD = 0.77 x SW + 0.07

TLD 1.2:1

SLM G5/G8/G10	PD = 1.22 x SW - 0.01
SLM R6/R8/R10	PD = 1.20 x SW - 0.01
SLM R12+ / FLM R20+	PD = 1.11 x SW - 0.01
FLM HD18	PD = 1.03 x SW - 0.01
RLM G5/G5+	Not usable
RLM H5	Not usable
RLM R6+	Optically usable, but probably not stable enough (TBD)

TLD 1.6-2.0:1

WIDE	
SLM G5/G8/G10	PD = 1.62 x SW - 0.09
SLM R6/R8/R10	PD = 1.59 x SW - 0.09
SLM R12+ / FLM R20+	PD = 1.47 x SW - 0.09
FLM HD18	PD = 1.36 x SW - 0.09
RLM G5/G5+	PD = 2.01 x SW - 0.07
RLM H5	PD = 1.61 x SW - 0.07
RLM R6+	PD = 1.47 x SW - 0.07

TELE	
SLM G5/G8/G10	PD = 2.03 x SW - 0.13
SLM R6/R8/R10	PD = 2.00 x SW - 0.13
SLM R12+ / FLM R20+	PD = 1.85 x SW - 0.13
FLM HD18	PD = 1.71 x SW - 0.13

RLM G5/G5+	PD = 2.53 x SW - 0.11
RLM H5	PD = 2.02 x SW - 0.11
RLM R6+	PD = 1.85 x SW - 0.11

TLD 2.0-2.8:1

WIDE	
SLM G5/G8/G10	PD = 2.03 x SW - 0.17
SLM R6/R8/R10	PD = 2.00 x SW - 0.17
SLM R12+ / FLM R20+	PD = 1.85 x SW - 0.17
FLM HD18	PD = 1.71 x SW - 0.17
RLM G5/G5+	PD = 2.52 x SW - 0.14
RLM H5	PD = 2.02 x SW - 0.14
RLM R6+	PD = 1.85 x SW - 0.14

TELE	
SLM G5/G8/G10	PD = 2.88 x SW - 0.24
SLM R6/R8/R10	PD = 2.84 x SW - 0.24
SLM R12+ / FLM R20+	PD = 2.62 x SW - 0.24
FLM HD18	PD = 2.42 x SW - 0.24
RLM G5/G5+	PD = 3.58 x SW - 0.21
RLM H5	PD = 2.86 x SW - 0.21
RLM R6+	PD = 2.62 x SW - 0.21

TLD 2.8-5.0:1

WIDE	
SLM G5/G8/G10	PD = 2.84 x SW - 0.16
SLM R6/R8/R10	PD = 2.80 x SW - 0.16
SLM R12+ / FLM R20+	PD = 2.58 x SW - 0.16
FLM HD18	PD = 2.38 x SW - 0.16
RLM G5/G5+	PD = 3.53 x SW - 0.14
RLM H5	PD = 2.83 x SW - 0.14
RLM R6+	PD = 2.58 x SW - 0.14

TELE	
SLM G5/G8/G10	PD = 5.18 x SW - 0.38
SLM R6/R8/R10	PD = 5.10 x SW - 0.38
SLM R12+ / FLM R20+	PD = 4.71 x SW - 0.38
FLM HD18	PD = 4.35 x SW - 0.38
RLM G5/G5+	PD = 6.43 x SW - 0.35
RLM H5	PD = 5.15 x SW - 0.35
RLM R6+	PD = 4.71 x SW - 0.35

TLD 5.0-8.0:1

WIDE	
SLM G5/G8/G10	PD = 4.97 x SW - 0.01
SLM R6/R8/R10	PD = 4.90 x SW - 0.01
SLM R12+ / FLM R20+	PD = 4.52 x SW - 0.01
FLM HD18	PD = 4.17 x SW - 0.01

RLM G5/G5+	PD = 6.18 x SW + 0.01
RLM H5	PD = 4.94 x SW + 0.01
RLM R6+	PD = 4.52 x SW + 0.01

TELE

SLM G5/G8/G10	PD = 8.28 x SW - 0.29
SLM R6/R8/R10	PD = 8.16 x SW - 0.29
SLM R12+ / FLM R20+	PD = 7.53 x SW - 0.29
FLM HD18	PD = 6.95 x SW - 0.29
RLM G5/G5+	PD = 10.29 x SW - 0.26
RLM H5	PD = 8.23 x SW - 0.26
RLM R6+	PD = 7.53 x SW - 0.26