

# Manually Adjustable Thermal Lens

## WLS-LTA Series



WLS-LTA05



WLS-LTA08



WLS-LTA19



WLS-LTA25



WLS-LTA40



WLS-LTA50



WLS-LTA75

Specific catons subject to change without notice. Errors and misprints excepted. Pictures in this document may differ from these actual product. © 2020 Walson Electronic Technologies Inc.

WLS-LTA Specification				
TA05				
FOV	160*120	320*240	384*288	640*512
17μ	37.5	71	83	12.38
12μ	26.7	52	61.4	96.5
Optical Feature				
Focal Length	5.1mm			
F/#	1.2			
Average Transmission	≥88%			
Back Focal Lens	9.98mm			
Focus Type	Athermalized			
FOV	102°*89°			
Coating	DLC			
Other Features				
Weight	100G			
Outer Size	L45.5mm, Φ40.5mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			
LTA08				
FOV	160*120	320*240	384*288	640*512
17μ	24.1	47.2	56	89
12μ	17.1	33.8	40.3	66.3
Optical Feature				
Focal Length	8mm			
F/#	1.0			
Average Transmission	≥90%			
Back Focal Lens	9.07mm			
Focus Type	Athermalized			
FOV	76°*62°			
Other Features				
Weight	100G			
Outer Size	L38.3mm, Φ36.5mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			

WLS-LTA Specification				
LTA19				
FOV	160*120	320*240	384*288	640*512
17μ	10.3	20.5	24.5	41.1
12μ	7.3	14.5	17.3	30
Optical Feature				
Focal Length	19mm			
F/#	1.0			
Average Transmission	≥94%			
Back Focal Lens	10.2mm			
Focus Type	Athermalized			
FOV	32.8°*26.2°			
Coating	AR			
Other Features				
Weight	56G			
Outer Size	L27mm, Φ36mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			
LTA25				
FOV	160*120	320*240	384*288	640*512
17μ	7,8	15.5	18.6	31.5
12μ	5.5	11	13.2	22.4
Optical Feature				
Focal Length	25mm			
F/#	1.0			
Average Transmission	≥94%			
Back Focal Lens	15.09mm			
Focus Type	Athermalized			
FOV	24.6°*18.5°			
Coating	DLC			
Other Features				
Weight	20G			
Outer Size	L27mm, Φ31mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			

WLS-LTA Specification				
LTA40				
FOV	160*120	320*240	384*288	640*512
17μ	4.9	9.7	11.7	19.8
12μ	3.4	6.9	8.2	14.1
Optical Feature				
Focal Length	40mm			
F/#	1.0			
Average Transmission	≥90%			
Back Focal Lens	12.09mm			
Focus Type	Athermalized			
FOV	15.5°*12.4°			
Other Features				
Weight	130G			
Outer Size	L42.7mm, Φ50mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			
LTA50				
FOV	160*120	320*240	384*288	640*512
17μ	3.9	3.9	9.3	16
12μ	2.7	2.7	6.6	11.3
Optical Feature				
Focal Length	50mm			
F/#	1.0			
Average Transmission	≥94%			
Back Focal Lens	16.76mm			
Focus Type	Athermalized			
FOV	12.42°*9.94°			
Coating	AR			
Other Features				
Weight	190G			
Outer Size	L56.2mm, Φ65mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			

WLS-TA Specification				
LTA75				
FOV	160*120	320*240	384*288	640*512
17μ	2.6	5.2	6.3	10.6
12μ	1.9	3.7	4.4	7.5
Optical Feature				
Focal Length	75mm			
F/#	1.1			
Average Transmission	≥90%			
Back Focal Lens	15.07mm			
Focus Type	Athermalized			
FOV	8.3°*6.64°			
Other Features				
Weight	425G			
Outer Size	L85.5mm, Φ80mm			
Operating Temp	-40~+60°C			
Spectral Range	8~12μm			
IP	IP66			