



Leica Incident Light and Transmitted Light Stands

for Stereomicroscopes and Macroscopes
Technical Information



Transmitted Light Stands: Performance Features

	Transmitted Light Stand TL ST	Transmitted Light Stand TL BFDF
Illumination source	Halogen lamp 12V/20W with the effective power of conventional 35W lamps	Illumination using external cold light sources with light cable
Illumination modes	Brightfield, darkfield on one side	Brightfield, darkfield
Transmitted light control	Mirror position can be adjusted; the tilting angle of the mirror is then automatically regulated to the ideal transmitted light position.	Fixed mirror, switchover between brightfield and darkfield position
Illuminated area	50mm	40mm
Illumination control	Control of the light intensity with potentiometer	Control of color temperature and light intensity using external light source Direct control using Leica Application Suite (LAS) software is possible
Filtering	Integrated filter holder for fitting with special daylight filters (10 447 400)	-
Accessories	Ergo accessories and numerous extra stages for the most challenging life science applications Adapter for 120mm transmitted light inserts	IsoPro TM cross-stage with optimized image level (image level and illumination settings remain unchanged) Ergo accessories and numerous extra stages for the most demanding life science applications Adapter for 120mm transmitted light inserts
Dimensions (W×H×D, in mm)	340×430×85	340×390×90

	Transmitted Light Stand TL RC™	Transmitted Light Stand TL RCI™
Illumination source	Illumination using external cold light sources with light cable	Halogen lamp 12V/20W with the effective power of conventional 35W lamps
Illumination modes	Brightfield, darkfield on one side, oblique lighting Relief Contrast System (RC TM) with positive or nega- tive relief contrast presentation for phase prepara- tions without artificial coloring	Brightfield, darkfield on one side, oblique lighting Relief Contrast System (RC™) with positive or neg- ative relief contrast presentation for phase prepara- tions without artificial coloring
Control of the transmitted light	360° rotatable mirror, position of the mirror adjustable, concave mirror side for use with lenses having a higher numerical aperture	360° rotatable mirror, position of the mirror on Z-shaft adjustable, concave mirror side for use with lenses having a higher numerical aperture
Illuminated area	35mm	35mm
Control of the illumination	Control of color temperature and light intensity using external light source Direct control using Leica Application Suite (LAS) software is possible	Separate control of color temperature and light intensity with CCIC technology, controlled by electronic potentiometer, electronic shutter with memory function (returns to previously selected settings after interrupting work) Direct control using Leica Manual Control UMC, Leica USB mouse and/or Leica Application Suite (LAS) software possible
Filtering	Integrated filter holder for fitting up to three filters (accessories) at the same time	Integrated filter holder for fitting up to three filters at the same time
Accessories	IsoPro TM cross-stage with optimized image level (image level and illumination settings remain unchanged) Ergo accessories and numerous extra stages for the most challenging life science applications Adapter for 120mm transmitted light inserts	IsoPro™ cross-stage with optimized image level (image level and illumination settings remain unchanged) Ergo accessories and numerous extra stages for the most challenging life science applications Adapter for 120mm transmitted light inserts
Dimensions (W×H×D, in mm)	340×390×95	340×440×95

Accessories

Designation	4×/Universal stage	Adapter for 160×110mm accessories	Adapter for 120mm stages
Article number	10 447 392	10 447 391	10 447 276
Description	Additional universal stage.	Simple adaptation of Leica	This adapter enables stages with
	Scope of delivery: Base Plate,	Life on Stage accessories for the	a diameter of 120mm to be used
	magnetic guide rails with metric	most challenging life science	on the new transmitted light
	scale, two pairs of magnetic fixa-	applications.	stands.
	tions for the most differing types		
	of glass slide.		
Compatible with			
Incident light stand 10 446 340	_	_	_
Incident light stand 10 447 342	-	_	-
Transmitted light stand TL ST	X	X	X
Cross-stage	X	X	X
Standard stage	X	X	X

Designation	IsoPro™ adapter, Ø120mm	Leica ErgoRest™	Cup stage, Ø120mm
Article number	10 447 368	10 447 431	10 446 303
Description	Adapter for assembling cross- stage 10 446 353 on incident light stand 10 447 342.	The ErgoRest™ support enables even more precise working without fatigue. It can be notched in two positions on the base (for focusing/working on the specimen).	Petri dishes, and spatial objects such as plants and insects, can be attached to the surface and studied from all sides.
Compatible with			
Incident light stand 10 446 340	-	_	X
Incident light stand 10 447 342	X	-	X
Transmitted light stand TL ST	-	X	X (with adapter 10 447 276)
Cross-stage	-	X	X (with adapter 10 447 276)
Standard stage	-	X	X (with adapter 10 447 276)

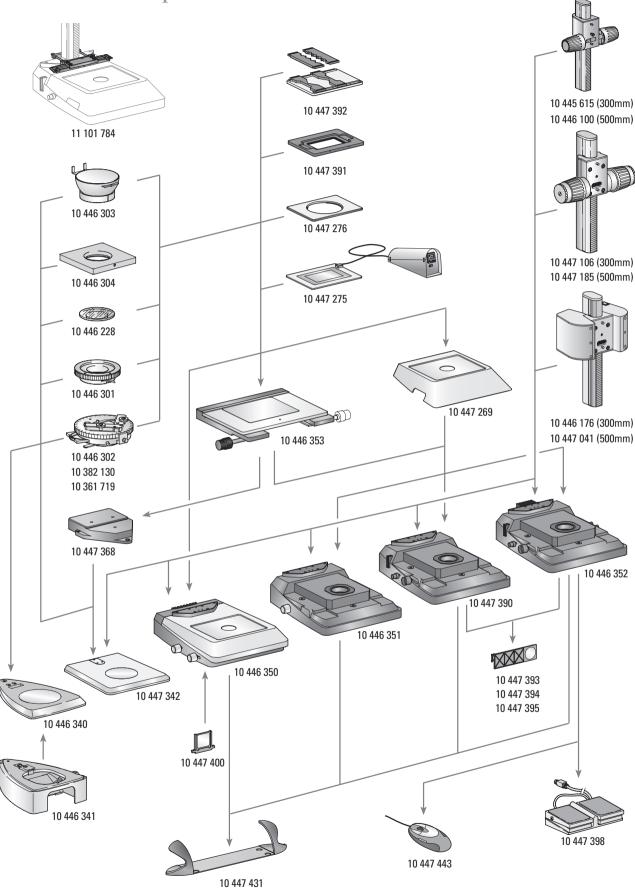
Designation	Daylight filter	Filter for TL RC™/RCI™	Filter for TL RC™/TL RCI™
Article number	10 447 400	10 447 393	10 447 394
Description	High-tempered daylight filter for	BG38 Filter	UV-Filter
	the transmitted light stand TL ST.	The transmitted light stands	The transmitted light stands
	Cuts off the UV and infrared spec-	TL RC™ and TL RCI™ can be fitted	TL RC™ and TL RCI™ can be fit-
	trum and raises the color temper-	with up to three filters at the same	ted with up to three filters at the
	ature.	time.	same time.
Compatible with		Transmitted light stand TL RCTM/RCITM	Transmitted light stand TL RC™/RCI™
Incident light stand 10 446 340	_	_	_
Incident light stand 10 447 342	-	-	-
Transmitted light stand TL ST	-	-	_
Cross-stage	X	-	_
Standard stage	-	_	_

Leica MATS TL with control unit	IsoPro™ cross-stage	Standard stage	Micromanipulation adapter
10 447 275	10 446 353	10 447 269	11 101 784
The precise heat distribution and	A cross-stage specifically designed	The standard stage is a low-cost	By means of this adapter, Leica
excellent temperature stability of	for Leica transmitted light stands,	alternative to the cross-stage. The	stereomicroscopes can be used
the Leica MATS TL thermo stage	the optical planee is identical as	large glass plate prevents fluids	for the most challenging applica-
with minimum tolerances	opposed to a standard stage.	from penetrating, and the same	tions such as ICSI, transgenics,
(< 0.2°C) allow experiments to	Control elements can be mounted	time serves as a resting surface for	and electrophysiological experi-
be carried out on temperature-	left/right, very easy assembly,	specimens that are not being used.	ments.
dependent specimens.	accuracy 2 µm.		
_	_	_	X
_	X (with adapter 10 447 368)	_	X
X	_	_	X
X	X	X	X
X	X	X	X

Universal carrier, Ø120mm	Glass stage plate with pol, Ø120mm	Polarization stage, Ø120mm	Gliding stage, Ø120mm
10 446 304	10 446 228	10 446 302	10 446 301
The universal carrier enables	The polarization insert makes it	The polarization stage increases	Specimens can be accurately
specific working devices to be	possible to see and analyze the	precision and comfort when ana-	displaced and turned. This glid-
assembled on the stands.	double refraction of light for mate-	lyzing double-refracting materials	ing stage is used with the stage
	rials such as crystals, stones,	due to its sensitive bearing and	plate, black/white, a clear glass
	minerals, bones, polymers, glass	the scale for the angle of rotation.	stage plate or a cup stage.
	and crystalline fluids.		
X	_	_	X
X	-	-	X
X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)
X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)
X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)	X (with adapter 10 447 276)

Filter for TL RC™/TL RCI™	Leica USB mouse	Footswitch
10 447 395	10 447 443	10 447 398
ND filter (neutral gray)	Five-button mouse with USB con-	Footswitch for regulating the
The transmitted light stands	nection for use on the transmitted	brightness and color temperature
TL RC™ and TL RCI™ can be fit-	light stand TL RCI™ or PC (using	of the transmitted light stand
ted with up to three filters at the	Leica Application Suite software).	TL RCI™ and motorized compo-
same time.		nents of stereomicroscopes such
		as the MZ16 A, and macroscopes
		such as the Z6/Z16 APO A, etc.
Transmitted light stand TL RCTM/RCITM	Transmitted light stand TL RCI™	Transmitted light stand TL RCI™
_	_	_
_	-	-
_	_	X
_	_	X
_	-	X

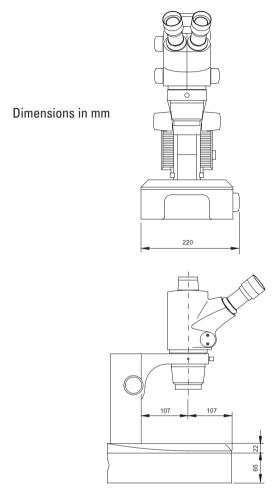
Leica Stereomicroscope Stands

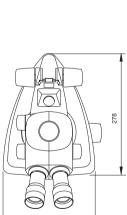


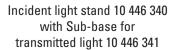
Scope of Delivery

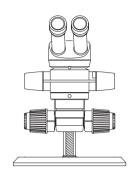
	Incident light stands
10 446 340	Incident light stand for S-series
10 446 341	Transmitted light stand for incident light stand for S-series
10 447 342	Incident light stand for M-series
10 446 350	Transmitted light stand TL ST
10 446 351	Transmitted light stand TL BFDF
10 447 390	Transmitted light stand TL RC™ for external cold light sources
10 446 352	Transmitted light stand TL RCI™ with integrated halogen illumination
	Stages
10 447 269	Standard stage for transmitted light stands TL BFDF (10 446 351),
	TL RC™ (10 447 390) and TL RCI™ (10 446 352)
10 446 353	Cross-stage for transmitted light stands TL BFDF (10 446 351), TL RCI™ (10 447 390), TL RC™ (10 446 352)
	and incident light stand (10 447 342, adapter 10 447 368 required)
10 447 368	Adapter between cross-stage IsoPro™ (10 446 353) and incident light stand (10 447 342)
10 447 275	Thermo stage Leica MATS TL with control unit
10 447 276	Adapter for stages with Ø120mm
10 447 391	Stage for 160×110mm accessories
10 447 392	Universal carriers for Petri dishes, glass slides (up to four) etc.
11 101 784	Column adapter for micromanipulation
10 446 301	Gliding stage, ∅120mm
10 446 302	Polarization stage, ∅120mm
10 382 130	Attachable mechanical stage for polarization stage
10 361 719	Sensitive-tint plate for rotatable polarization stage
10 446 303	Cup stage, ∅120mm
10 446 304	Universal carrier, Ø120mm
10 446 228	Glass insert with pol, ∅120mm
	Focusing drives
10 445 615	Focusing drive with 300mm side-faced column for incident and transmitted light stands
10 446 100	Focusing drive with 500mm side-faced column for incident and transmitted light stands
10 447 106	Focusing drive, coarse/fine, with 300mm side-faced column for incident and transmitted light stands
10 447 185	Focusing drive, coarse/fine, with 500mm side-faced column for incident and transmitted light stands
10 446 176	Motorfocus drive with 300mm column and supply unit for incident and transmitted light stands
10 447 041	Motorfocus drive with 500mm column and supply unit for incident and transmitted light stands
	Filters
10 447 400	Daylight filter for transmitted light stand TL ST
10 447 394	BG38 filter for transmitted light stand TL RC™/RCI™
10 447 395	UV filter for transmitted light stand TL RC™/RCI™
10 447 393	Filter ND (gray filter) for transmitted light stand TL RC™/RCI™
	Illumination
10 447 443	Leica USB mouse, a five-button mouse for connecting to transmitted light stand RCI™ or to a PC
10 447 398	Footswitch with CAN-bus connection
	Ergo accessories
10 447 431	Leica ErgoRest™ (hand rest for working without fatigue)

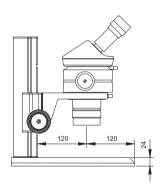
Incident Light Stand Dimensions

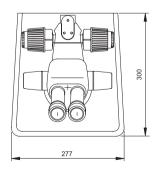






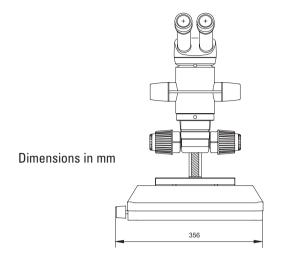


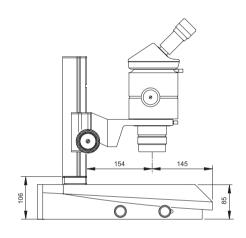


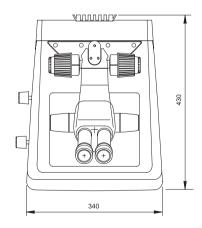


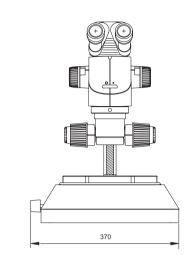
Incident light stand 10 447 342

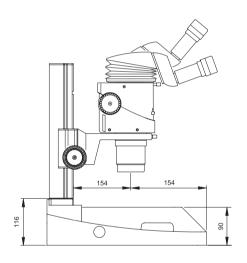
Transmitted Light Stands TL ST and TL BFDF Dimensions

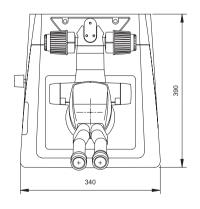








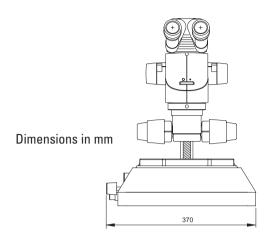


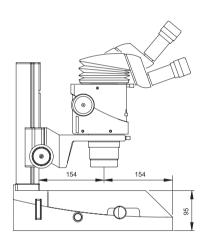


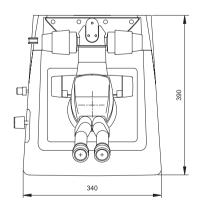
Transmitted light stand TL ST

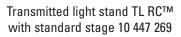
Transmitted light stand TL BFDF with standard stage 10 447 269

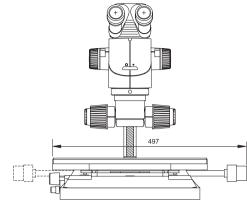
Transmitted Light Stand TL RCTM Dimensions

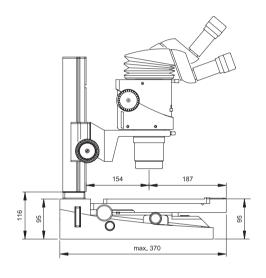


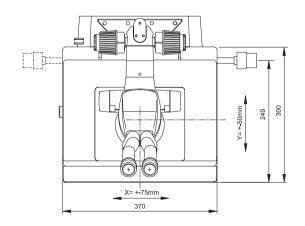






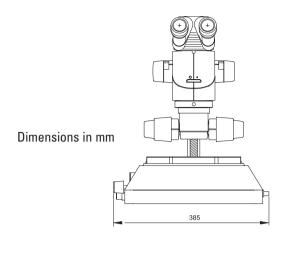


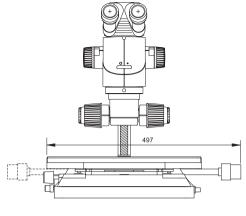


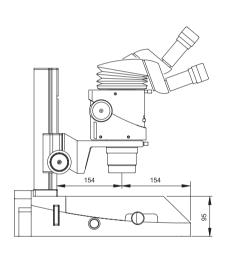


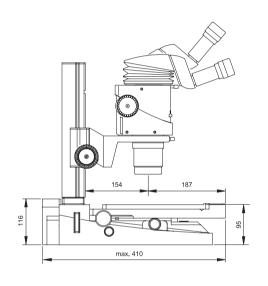
Transmitted light stand TL RC™ with IsoPro™ cross-stage

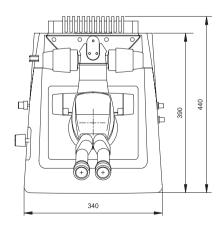
Transmitted Light Stand TL RCI™ Dimensions

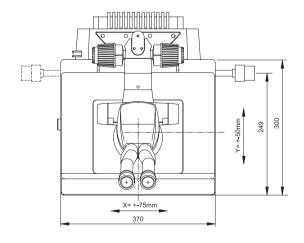












Transmitted light stand TL RCI™ with standard stage 10 447 269

Transmitted light stand TL RCITM with IsoProTM cross-stage

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