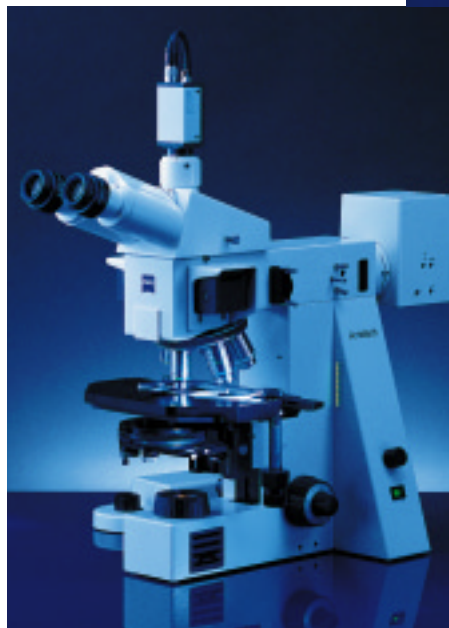


Materials Microscopy with the Axiotech

- The microscope for every job:
All stands readily accommodate retrofits for transmitted-light observation.
- Excellent tool for inspecting transparent and opaque materials
- Flexible configurations match the requirements of the job - whether contrasting in reflected or transmitted light, or analytical methods.
- With the modular system, either a flexible all-purpose system or a configuration tailored to a specific job can be assembled.
- Compatible with accessories of Zeiss research microscopes



*Axiotech
for reflected and transmitted
light methods
(reflected light 30-watt,
transmitted light 30-watt
halogen lamp)*

*Axiotech
for reflected and transmitted
light methods
(reflected light 100-watt,
transmitted light 30-watt
halogen lamp); with
video camera*

System Overview



The New Axiotech

Stand

Axiotech stands now readily accommodate accessories for transmitted light observation – a lampholder for a 6 V 30 W halogen lamp, a collector, an illuminated field diaphragm, and a connector and cable to an external power supply unit are already integrated.

The stand is now higher by 25 mm and wider by 15 mm, resulting in greater sturdiness and a more convenient viewing height.

Configurations with integrated 6 V 30 W (instead of 25 W) and 12 V 100 W power supplies for reflected light observation are now available.

Viewing tubes

Instead of the approved trinocular tube with its erect, true-to-side image, the tubes of the **Axioskop 2** and **Axioplan 2** microscopes may be used.

These include ergonomic tubes allowing a continuous adjustment of the viewing height and viewing angle, trinocular tubes with variable beam splitting, and a tube with variable beam splitting and two camera ports. Intermediate tubes (Optovar, zoom, external image overlay) can also be used.

Stages

Now everything is possible: Choose between a reflected-light mechanical stage, a mechanical stage with low-positioned controls and ceramic top, a rotating mechanical stage, a rotating stage, a sliding stage, and a motor-driven mechanical stage.

The possibility to use two stage carriers of the **Axiotech** and **Axiolab** microscopes expands the choice of stages and provides exemplary flexibility to suit many more applications of today and tomorrow.

Objectives

For reflected-light observation, the complete line of Zeiss objectives can be used without any restriction.

For transmitted light work, mind the objective-condenser correlation for optimum performance.

Condensers

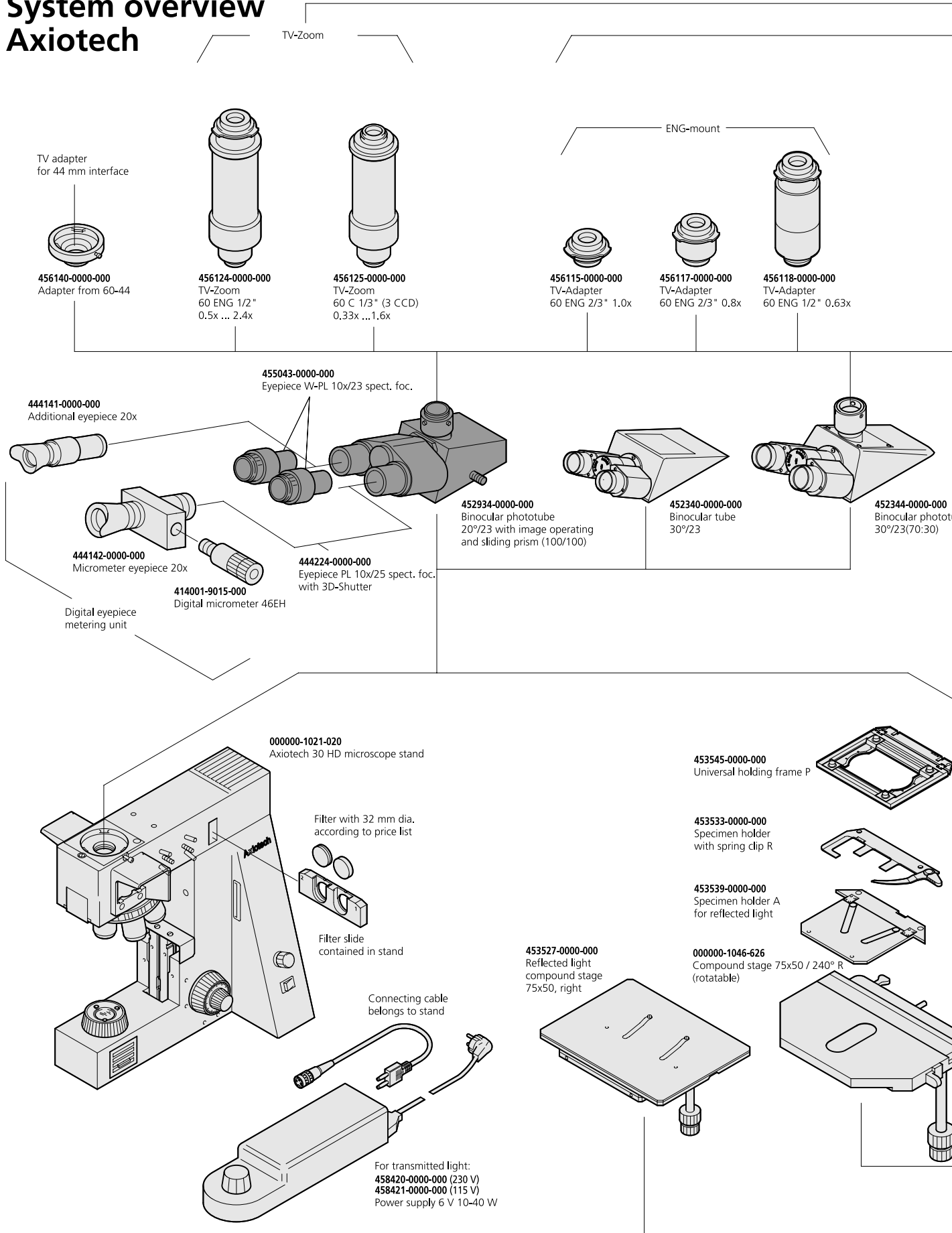
Choose from a range of six condensers to suit the contrasting method (brightfield, darkfield, phase contrast), operating convenience levels (single diaphragms or diaphragm turret) and correction requirements (polarization).

Image documentation

A wide range of video adapters make it possible to combine the Axiotech with almost any video camera on the market.

For photomicrography we recommend the **MC 80 DX** and **MC 200 CHIP** Microscope Cameras.

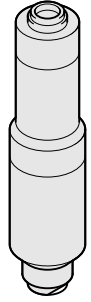
System overview Axiotech



The darker marked components show a device equipment (add. a set of Epiplan lenses) for material inspection in reflected and transmitted light.

TV-Adapter

C-mount



456119-0000-000
TV-Adapter
60 C 1/3" (3CCD)
0,5x



456105-0000-000
TV-Adapter
60 C 2/3" 1.0x



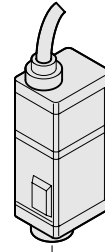
456107-0000-000
TV-Adapter
60 C 2/3" 0.63x



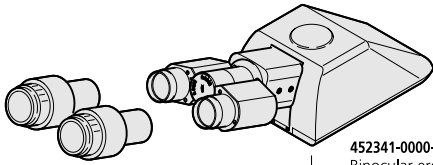
456106-0000-000
TV-Adapter
60 C 1/2" 0,5x



456108-0000-000
TV-Adapter
60 C 1/3" 0,4x

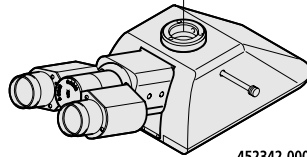


TV-camera
(as desired)

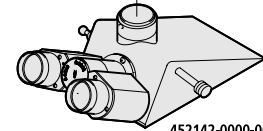


000000-1026-548
Eyepiece PL 10x/23 spect. foc.

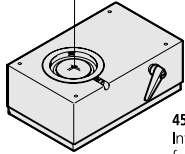
452341-0000-000
Binocular ergonomic tube
6-25°/23



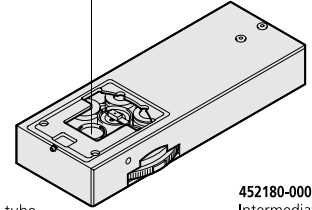
452342-0000-000
Binocular ergonomic phototube
6-25°/23 (100:0/0:100)



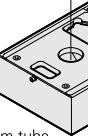
452142-0000-000
Binocular phototube 30°/25
with sliding prism
(100:0/30:70)



452376-0000-000
Intermediate tube, height adjustable
from 60 to 110 mm
(for 452341/42)



452175-0000-000
Optovar intermediate tube
1.0x/1.25x/1.6x/2.0x/2.5x cod.

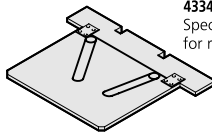


452180-0000-000
Intermediate zoom tube
1.0x ... 2.5x cod.

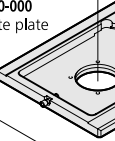
473448-0000-000
Specimen holder with spring clip R



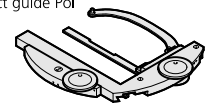
433411-0000-000
Specimen holder A
for reflected light



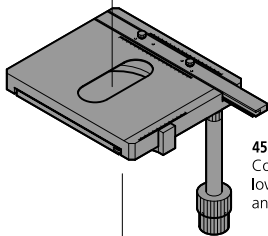
452969-0000-000
Intermediate plate



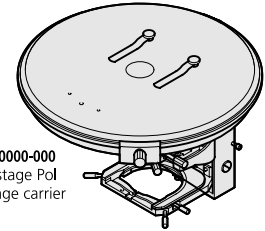
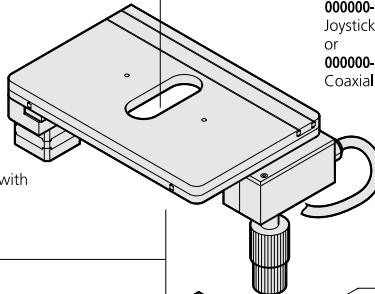
473325-0000-000
Object guide Pol



000000-1025-145
Compound stage 75x50 mot
with control unit
optionally
000000-1033-996
Joystick for 2 axes
or
000000-1034-960
Coaxial electronic drive



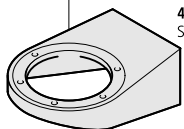
453522-9901-000
Compound stage 75x30 R with
low laying stage drive
and ceramic surface



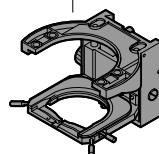
453556-0000-000
Rotary stage Pol
with stage carrier



453509-0000-000
Sliding stage

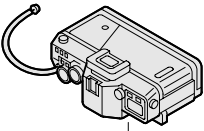


451005-0128-000
Stage carrier A for Axiotech
directly mounted to stand



453556-9001-000
Stage carrier D
for Axiotech

416167-0000-000
Cable release



000000-1057-127
Single lens reflector
camera housing
CONTAX ARIA

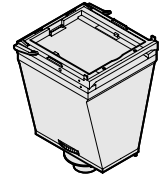
416010-0000-000
T2-Adapter
for CONTAX

456005-0000-000
Connector for
single lens reflex camera
2.5x for T2

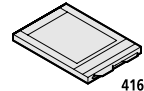
456073-0000-000
D4 Databack

456071-0000-000
Film cassette
35 mm Mot DX

456031-0000-000
Base
MC 80 DX



456060-0000-000
Camera attachment M 4x5"

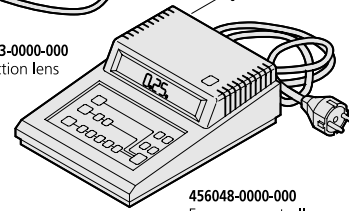


416131-0000-000
Double sheet-film holder

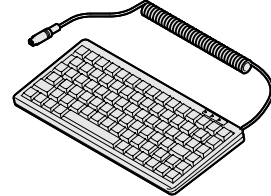
456021-0000-000
Projection lens
P 2.5x

456023-0000-000
Projection lens
P 10x

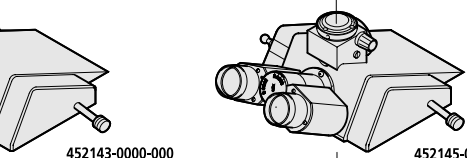
456006-0000-000
Camera-to-microscope
adapter 30 mm dia.



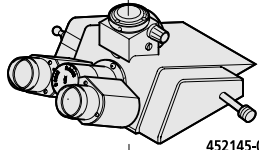
456048-0000-000
Exposure controller
MC 80 DX



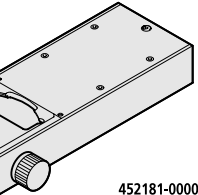
419195-9066-000
Ultra-flat keyboard



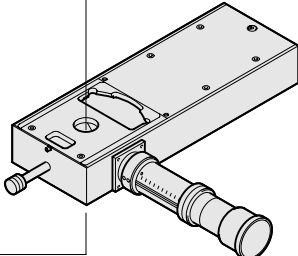
452143-0000-000
Binocular phototube 30°/25
with sliding prism
(100:0/50:50/0:100)



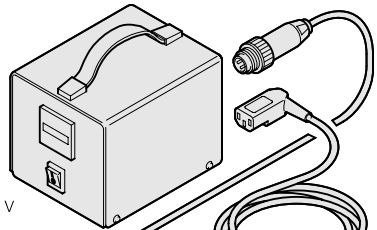
452145-0000-000
Binocular phototube 30°/25
with two TV ports
(100:0/50:50/0:100)



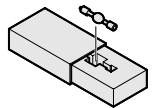
452181-0000-000
Intermediate tube
for external image
overlay switchable



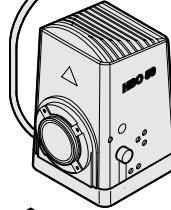
447217-0000-000
HAL 100 lamp housing
with collector, lamp mount
and heat-reflecting filter



392642-0000-000
Power supply unit
for HBO 50/220-240 V



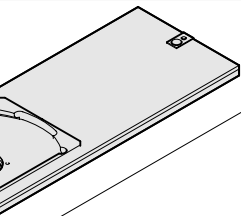
381619-0000-000
Mercury vapour
short arc lamp HBO 50



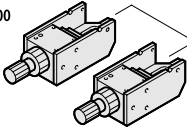
447220-0000-000
HBO 50 lamp housing
with lamp mount

447270-0000-000
Collector HBO 50/SF 25

Connecting cable
belongs to stand

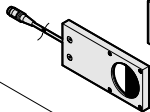


444410-0000-000
DIC prism for
Epiplan lenses



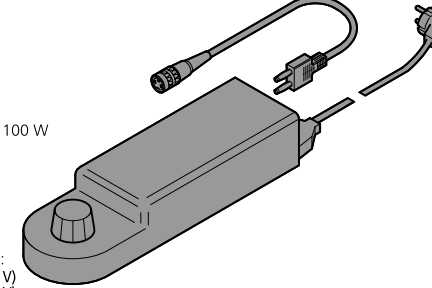
444411-0000-000
DIC prism for Epiplan
and Epiplan-Neofluar lenses

454370-0000-000
3D-Illumination shutter



380079-9540-000
Halogen lamp 12 V 100 W

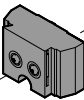
For transmitted light:
458420-0000-000 (230 V)
458421-0000-000 (115 V)
Power supply 6 V 10-40 W



000000-1034-926
Reflector slide 2 FL/3D
(Forensik)



446344-0000-000
Reflector slide 3 FL



446343-0000-000
Reflector slide HD

000000-1020-816
Adapter for stage carrier D

000000-1021-021
Axiotech 100 HD microscope stand

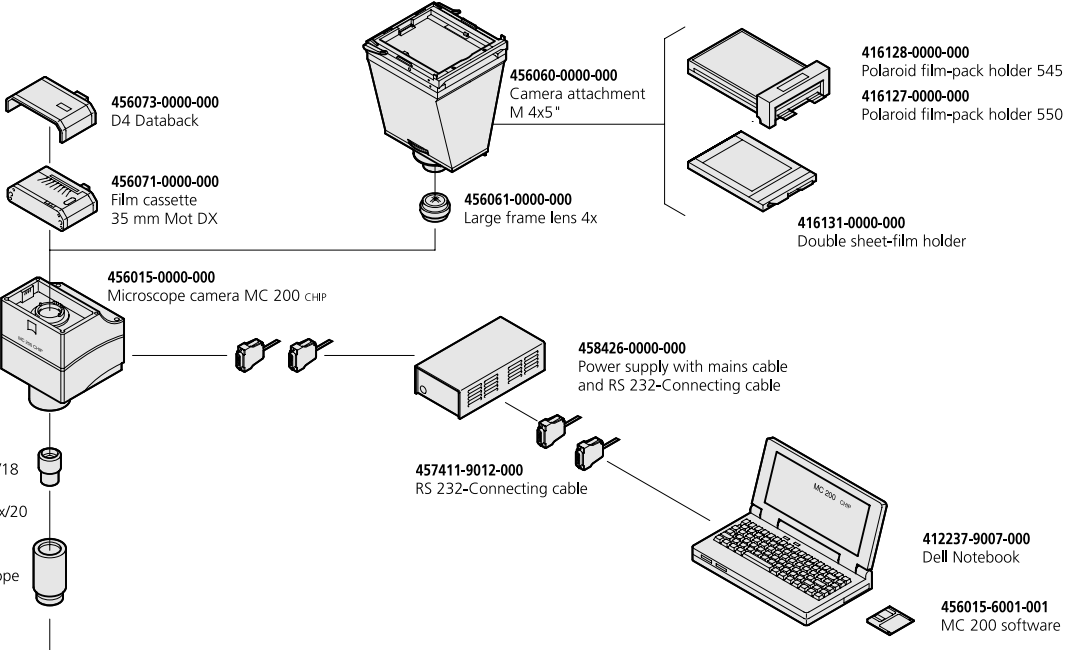
453686-0000-000
Analyser slide
rotatable ±10°

446342-0000-000
Reflector slide
HD DIC

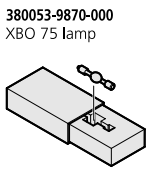
000000-1052-384
Slide Pol

453707-0000-000
Compensator
DIC Lambda

453706-0000-000
Compensator Po
Lambda sub, ±10°



- 444029-0000-000
Camera lens S-PI 8x/18
- 444040-0000-000
Camera lens S-PI 10x/20
- 456006-0000-000
Camera-to-microscope
adapter 30 mm dia.



447230-9901-000
Path-deflecting mirror for
two illuminators

- 000000-1007-981
Illuminator N XBO 75
- 000000-1007-976
Collector N HBO 103 / XBO 75

445303-0000-000
ABBE condenser 0.9/1.25
with quintuple turret disk
(for objectives 5x to 50x)

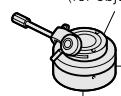
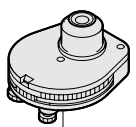
445302-0000-000
ABBE condenser 0.9/1.25
(for objectives 5x to 50x)

445212-0000-000
Condenser 0.9 Z Pol,
swivelling
(for objectives 2.5x to 100x)

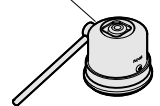
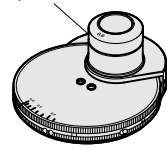
445443-0000-000
Achromatic condenser 0.8 H
(WD ≈ 7 mm,
for objectives 5x to 100x)

445445-9901-000
Achromatic condenser 0.8 H D Ph
(for objectives 5x to 100x)

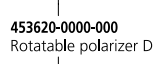
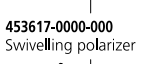
445340-0000-000
Achromatic dual condenser 0,5
(for objectives 1.25x to 50x)



445462-0000-000
Condenser adapter



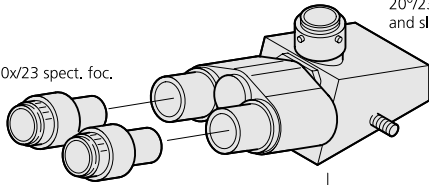
Insertable diaphragms for
phase contrast (Ph)
dark field (DF)
polarization contrast (Pol)



454370-0000-000
3D-Illumination shutter

To stage carrier D

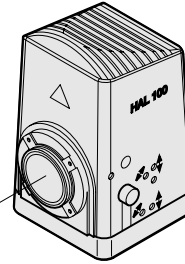
455043-0000-000
Eyepiece W-PL 10x/23 spect. foc.



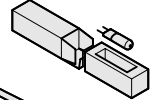
452934-0000-000
Binocular phototube
20°/23 with image operating
and sliding prism (100/100)

Further components
acc. to Axiotech 100 HD

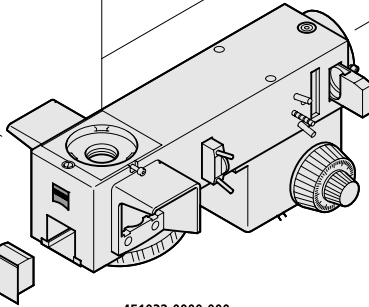
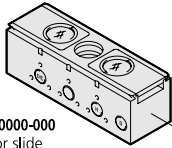
447217-0000-000
HAL 100 lamp housing
with collector, lamp mount
and heat-reflecting filter



380079-9540-000
12 V 100 W Halogen lamp

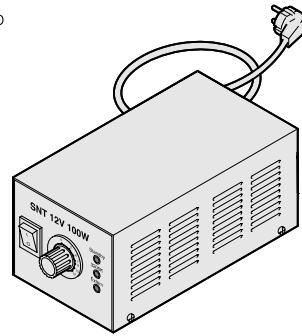
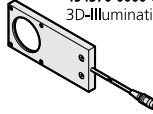


446342-0000-000
Reflector slide
HD DIC



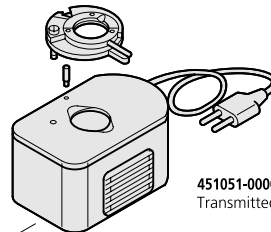
451032-0000-000
Axiotech^{vario} 100 HD
Microscope body

454370-0000-000
3D-Illumination shutter

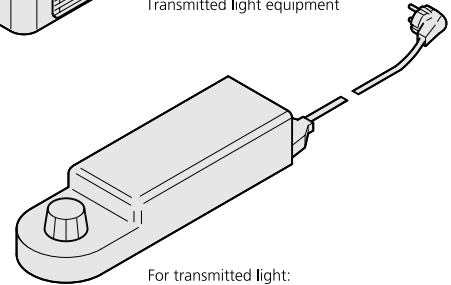


458417-0000-000
Stabilized power supply unit
12 V DC 100 W

453621-0000-000
Rotatable polarizer D

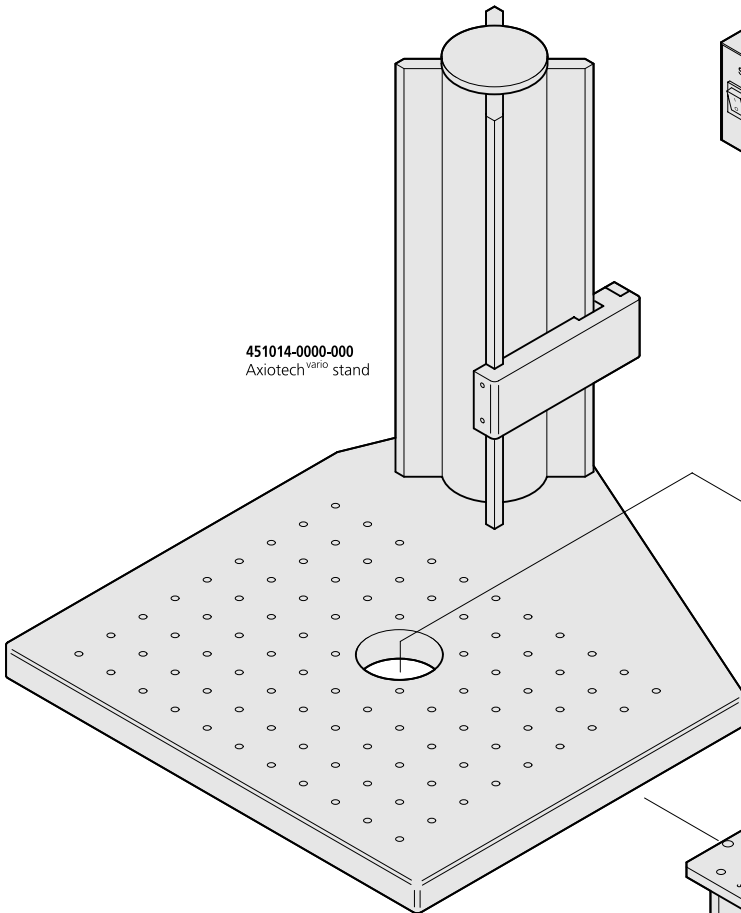


451051-0000-000
Transmitted light equipment

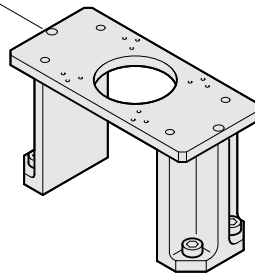


For transmitted light:
458420-0000-000 (230 V)
458421-0000-000 (115 V)
Power supply 6 V 10-40 W

451014-0000-000
Axiotech^{vario} stand



000000-1056-656
Stage carrier H = 140 mm



The New Axiotech

Details at a Glance

Optics	Eyepiece magnifications: 10x, 16x Field-of-view number: 23 Objective magnifications: 1.25x ... 100x
Documentation	<ul style="list-style-type: none"> • SLR camera via adapter • Microscope cameras for 35mm and/or large-frame: MC 80 DX or MC 200 CHIP • Video adapter or video zoom adapter
Objective nosepiece	Quintuple M 27 (brightfield / darkfield) (with brightfield and transmitted-light objectives, use M27/W0.8 intermediate ring)
Reflector-slider	<ul style="list-style-type: none"> • Brightfield / darkfield / interference contrast • Brightfield / darkfield • Fluorescence (3FI) / Crime detection (2FI/3D) • Slider for transmitted-light polarization
Analyzer	Fixed for reflected and transmitted light, or rotatable by +/- 10° (depending on configuration)
Polarizer	Fixed inside reflector slider (for reflected light), rotatable and with in/out pivot (for transmitted light) (depending on configuration)

	Reflected light	Transmitted light
Method	Brightfield, darkfield, polarization, interference contrast, fluorescence, spatial image microscopy	Brightfield, darkfield, phase contrast, spatial image microscopy
Light sources	6 V 30 W halogen, 12 V 100 W halogen, HBO 50 mercury, XBO 75 xenon	6 V 30 W halogen

Further microscopes / accessories for materials investigation:

- Upright microscopes: **Axiolab A / Axiolab pol / Axioplan 2 / Axiophot 2**
- Inverted microscope: **Axiovert 25CA**
- Image analysis: **AxioVision Software**
- Laser scanning microscope: **LSM 510**

Carl Zeiss
Microscopy
 D-07740 Jena
 Phone: 03641-64-16 16
 Fax: 03641-64-31 44
 E-mail: micro@zeiss.de
 Internet: www.zeiss.de/micro