

# Oxion for life science

# **HIGHLIGHTS**

- HWF 10x/22 mm eyepieces
- · Binocular, trinocular and multihead systems
- · Optional tilting head
- · Reversed nosepiece for maximum 5 objectives
- · Semi plan, plan and plan phase contrast IOS objectives
- 150 x 140 mm stage
- · Optional ceramic stage
- Abbe condenser and Zernike condenser for phase contrast
- · 3 W LED illumination for brightfield and phase contrast
- · 5 W LED illumination for dark field applications
- · Ergonomical stand and head
- 10 years warranty



OX.3035

#### **TECHNICAL SPECIFICATIONS**

#### EYEPIECE(S)

- HWF 10X/22 mm eyepieces with  $\pm$  5° diopter adjustements on both eyepieces
- The mulithead systems OX.56xx are supplied with WF10x/20 mm eyepieces and a joystick for the positioning of a pointer in the field of view of the eyepieces
- All eyepieces can be secured with an Allen screw

#### **HEAD**

- Binocular and trinocular Siedentopf type heads with 30° inclined tubes
- Interpupillary distance from 50 to 75 mm
- An unique rotating system allows an ergonomical positioning of both tubes in an upper (431 mm) and in a lower position (397 mm)
- The multihead systems are available with 2, 3 or 5 heads

#### **MULTIHEADS SYSTEM**

- The Oxion can be extended with a unique multihead system for in total 2, 3 or 5 heads that allow simultaneous observation of specimens
- The central attachment is equipped with a joystick to move a green and red laser pointer across the entire field of views of all heads
- Configurations with one, two or four viewing binocular heads, 30° inclined tubes and plan 4x, 10x, S40, S100x oil immersion infinity corrected IOS objectives
- Each extra viewing binocular head is equipped with high wide field plan HWF 10x/20 mm eyepieces (reference models OX.5602, OX.5603 and OX.5605)

## NOSEPIECE

• Reversed nosepiece for a maximum of 5 objectives on ball bearings

#### **OBJECTIVES - IOS INFINITY CORRECTED SYSTEM**

- Semi plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- Plan 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- $\bullet \ Plan\ phase\ contrast\ 4x/0.10,\ 10x/0.25,\ S40x/0.65\ and\ S100x/1.25\ oil\ immersion\ IOS\ objectives$
- Plan semi apochromatic fluarex 4x/0.10, 10x/0.25, S40x/0.65 and S100x/1.25 oil immersion IOS objectives
- All S40x, S60x and S100x oil immersion objectives are spring loaded
- $\bullet \ All \ optics \ have \ an \ anti-reflection \ coating \ for \ maximum \ light \ throughput \ and \ are \ anti-fungus \ treated \ and \ are \ anti-fungus \ and \ are \ anti-fungus \ treated \ and \ are \ anti-fungus \ and \ are \ anti-fungus \ treated \ and \ are \ anti-fungus \ treated \ anti-fungus \ anti-fu$

### STAGE

- 150 x 140 mm stage with integrated X-Y mechanical stage
- A ceramic stage is also available on request
- The Oxion can be supplied with a heating stage which can be set up to 50° Celsius by a PID temperature controller (Only available for new microscopes)
- Higher temperatures can be achieved on special request



#### CONDENSER FOR BRIGHTFIELD

- Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm
- Phase contrast rings mounted in slider can be inserted in the condenser for 10x and S40x or 20x and S100x phase contrast objectives
- A dark field stop in slider for the 10x, 20x and S40x objectives can also be inserted with magnification indication

#### CONDENSERS FOR ZERNIKE PHASE CONTRAST

- Two optional height adjustable Zernike NA. 1.25 phase contrast disc condensers are available:
- with plan phase 10/20/S40x and S100x oil immersion objectives
- with plan phase 10/S40x/S100x oil immersion objectives and dark field position for dark field contrast up to 400x magnification

#### **FOCUSING**

- Coaxial coarse and fine adjustments, 200 graduations, 1 µm per graduation, 200 µm per rotation, total travel approximately 28 mm
- Supplied with an adjustable rack stop to prevent damage to sample and objectives
- The coarse adjustments are equipped with friction control

#### CARDIOID MIRROR CONDENSER FOR DARK FIELD

- The OX.3064 model is supplied with a condenser with cardioid mirrors, a 5 W integrated NeoLED™ illumination and a S100x objective with built-in iris diaphragm for real 1,000x dark field observations
- By using AE.3612-O and 86.521 an existing brightfield microscope can be upgraded to dark field

#### **ILLUMINATION FOR DARK FIELD**

• 5 W NeoLED™ adjustable illumination (for model OX.3064)

# NeoLED SUITABLE OF LICENSE OF SUITABLE OF

#### ILLUMINATION FOR BRIGHTFIELD AND PHASE CONTRAST

- All models are supplied with a 3 W adjustable NeoLED™ illumination with integrated 100-240 V power supply
- Köhler illumination with field diaphragm

#### **PACKAGING**

- Supplied with power cord, dust cover, a spare fuse, user manual and 5 ml immersion oil for models with a \$100x objective
- All packed in a polystyrene box



OX.3035

With ceramic stage - OX.3035

With multihead system - OX.3034



### MODELS

MODELS	•								
	Bino	Trino	Semi plan 4x/10x/S40x/S100x IOS objectives	Plan 4x/10x/S40x IOS objectives	Plan S100x IOS objective	Plan semi apo 4x/10x/S40x/S100x objectives	Plan semi apo S100x IOS objectives	Plan phase 10x/20x/S40x/S100x IOS objectives	Plan phase 10x/S40x/S100x IOS objectives
OX.3012	•		•						
OX.3015		•	•						
OX.3020	•			•					
OX.3025		•		•					
OX.3030	•			•	•				
OX.3035		•		•	•				
OX.3040	•							• (1)	
OX.3045		•						• (1)	
OX.3042	•								• (2)
OX.3047		•							• (2)
OX.3050	•					•			
OX.3055		•				•			
OX.3060	•					•	•		
OX.3065		•				•	•		
OX.3064		•		•	• (3)				
OX.5602		• (4)		•	•				
OX.5603		• (5)		•	•				
OX.5605		• (6)		•	•				

- (1) Plan phase objectives supplied with AE.3184 condenser with 4 phase contrast rings
- (2) Plan phase objectives supplied with AE. 3183 condenser with 3 phase contrast rings and one stop for dark field
- $(3) \, Supplied \, with \, cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, mirror \, dark \, field \, oil \, immersion \, condenser \, and \, S100x \, objective \, with \, built-in \, iris \, diaphragm \, in the cardioid \, oil \, immersion \, condenser \, oil \, in the cardioid \, oil \, immersion \, oil \, in the cardioid \, oil \, oi$
- (4) Multihead system, supplied with a trinocular and one binocular head
- (5) Mutihead system, supplied with a trinocular and two binocular heads
- (6) Multihead system, supplied with a trinocular and four binocular heads



Oxion Multihead - OX.5603



### **ACCESSORIES AND SPARE PARTS**

IAB-2310 I HWF10v/22mm eyeptece AB-3318 Phase controst Zernike condenser with 4 phase rings and plan phase PLPH 10 (2022, 540 Sc.) 1500 to objective of phase PLPH 10 (2022) Sea Sc.) 1500 to objective of plan 4 (2012) Infinity corrected IOS objective. Working distance 15 mm AB-3160 Semi plan 4x/0.10 infinity corrected IOS objective. Working distance 15 mm AB-3161 Semi plan 10x/0.25 infinity corrected IOS objective. Working distance 0.15 mm AB-3162 Semi plan 10x/0.25 infinity corrected IOS objective. Working distance 0.17 mm AB-3163 Semi plan 10x/0.25 infinity corrected IOS objective. Working distance 0.17 mm AB-3164 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3165 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3166 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3167 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3168 Plan 10x/0.25 infinity corrected IOS objective. Working distance 0.18 mm AB-3168 Plan 10x/0.25 infinity corrected IOS objective				
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AE.3112 Plan S60/V.0.85 infinity corrected IOS objective. Working distance 0.36 mm  AE.3114 Plan S100V/125 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3144 Plan S100V/125 oil immersion infinity corrected IOS objective with built-in iris diaphragm  AE.3144 Plan semi apochromatic fluarex 4v/0.13 infinity corrected IOS objective. Working distance 1.5 mm  AE.3146 Plan semi apochromatic fluarex 4v/0.30 infinity corrected IOS objective. Working distance 1.6 mm  AE.3147 Plan semi apochromatic fluarex 2v/0.30 infinity corrected IOS objective. Working distance 1.6 mm  AE.3148 Plan semi apochromatic fluarex 2v/0.05 infinity corrected IOS objective. Working distance 2.33 mm  AE.3149 Plan semi apochromatic fluarex 2v/0.075 infinity corrected IOS objective. Working distance 2.33 mm  AE.3150 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3160 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3170 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3180 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 1.5 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 1.5 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 1.5 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 1.5 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/0.75 infinity corrected IOS objective. Working distance 0.5 mm  AE.3190 Plan semi apochromatic fluarex 2f0x/		Working distance 1.5 mm		2x magnification lens. Needs T2 adapter and OX.5120
AE.3112 Plan S60x/0.85 infinity corrected IOS objective. Working distance 0.30 mm  AE.3114 Plan S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  86.521 Plan S100x/1.25 oil immersion infinity corrected IOS objective with built-in iris diaphragm  AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 18.5 mm  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 10.6 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.6 mm  AE.3155 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.2 mm  AE.3160 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 1.5 mm  AE.3161 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 1.5 mm  AE.3162 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 1.5 mm  AE.3163 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 1.5 mm  AE.3164 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.3 mm  AE.3165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3167 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3176 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3187 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3188 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$100x	AE.3110	Plan S40x/0.65 infinity corrected IOS objective.	AE.5025	T2 adapter for Nikon D digital SLR cameras
Working distance 0.30 mm  AE.3114 Plan \$100X/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 10.6 mm  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3147 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.75 infinity corrected IOS objective. Working distance 2.34 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.75 infinity corrected IOS objective. Working distance 2.35 mm  AE.3154 Plan semi apochromatic fluarex 20x/0.75 infinity corrected IOS objective. Working distance 2.36 mm  AE.3155 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 2.36 mm  AE.3156 Plan pase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 1.5 mm  AE.3160 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3176 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3180 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3180 Telescope for alignment of phase contrast rings AE.3180 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.18 mm  AE.3180 Telescope for alignment of phase contrast rings and one dark field stop and plan phase PLPH 10x, 540x, 5100x		Working distance 0.36 mm	AE.5040	T2 adapter for Canon EOS digital SLR cameras
AE.3114 Plan \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 10.6 mm  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3147 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3149 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3150 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3150 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3150 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3160 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.2 mm  AE.3170 Plan phase \$20x/0.45 infinity corrected IOS objective. Working distance 0.36 mm  AE.3180 Plan phase \$20x/0.45 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0	AE.3112	Plan S60x/0.85 infinity corrected IOS objective.		
86.521 Plan \$100x/1.25 oil immersion infinity corrected IOS objective with built-in iris diaphragm  AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 18.5 mm  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3147 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3156 Plan semi apochromatic fluarex 240x/0.75 infinity corrected IOS objective. Working distance 2.31 mm  AE.3156 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 2.31 mm  AE.3156 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3157 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 1.21 mm  AE.3158 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. PB.5245 Lens cleaning paper, 100 sheets per pack PB.5255 Immersion oil, n = 1.482 (25 ml)  AE.31310 Telescope for alignment of phase contrast rings  AE.31310 Telesc		Working distance 0.30 mm	OX.9810	CS/C mount with 1.0x objective
86.521 Plan \$100x/1.25 oil immersion infinity corrected IOS objective with built-in iris diaphragm  AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 18.5 mm  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex \$40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3157 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3158 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase \$40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Telescope for alignment of phase contrast rings  Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$5100x	AE.3114	Plan S100x/1.25 oil immersion infinity corrected	OX.9833	C-mount adapter with 0.33x objective for Oxion
AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected IOS objective. Working distance 10.5 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 2dv/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 2dv/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3154 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 0.2 mm  AE.3155 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 1.2 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3134 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3134 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  AE.3135 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3136 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3137 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3139 Plan phase 540x/0.65 infinity corrected IOS objective. PB.5255 Immersion oil, n = 1.482 (25 ml)  AE.3130 Telescope for alignment of phase contrast rings  AE.3131 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$100x		IOS objective. Working distance 0.18 mm		microscopes and 1/3" cameras
AE.3144 Plan semi apochromatic fluarex 4x/0.13 infinity corrected 10S objective. Working distance 18.5 mm (DS objective. Working distance 10.6 mm)  AE.3148 Plan semi apochromatic fluarex 10x/0.30 infinity corrected 10S objective. Working distance 10.6 mm  AE.3149 Plan semi apochromatic fluarex 20x/0.50 infinity corrected 10S objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 26x/0.75 infinity corrected 10S objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected 10S objective. Working distance 0.21 mm  AE.3156 Plan phase 10x/0.25 infinity corrected 10S objective. Working distance 0.21 mm  AE.3157 Plan phase 20x/0.45 infinity corrected 10S objective. Working distance 1.1 mm  AE.3158 Plan phase 20x/0.45 infinity corrected 10S objective. Working distance 1.5 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected 10S objective. Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected 10S objective. Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected 10S objective. Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected 10S objective. Working distance 0.36 mm  AE.3130 Telescope for alignment of phase contrast rings  AE.3130 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, 540x, 5100x	86.521	Plan S100x/1.25 oil immersion infinity corrected	OX.9850	C-mount adapter with 0.5x objective for Oxion and Oxion
Only supplied with new purchased microscopes  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.25 mm  AE.3157 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 1.5 mm  AE.3158 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 0.36 mm  AE.3130 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. PB.5245 Lens cleaning paper, 100 sheets per pack Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.38 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.38 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3134 Plan phase 5100x/		IOS objective with built-in iris diaphragm		Inverso microscopes and 1/2" cameras
Only supplied with new purchased microscopes  AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.25 mm  AE.3157 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 1.5 mm  AE.3158 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 0.36 mm  AE.3130 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. PB.5245 Lens cleaning paper, 100 sheets per pack Working distance 0.36 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.38 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.38 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3134 Plan phase 5100x/	ΛΕ 21 <i>ΛΛ</i>	Plan comi anochromatic fluarov 4v/0.13 infinity corrected	ΛΕ 516Q <sub>-</sub>	• Heating stage and temperature controller up to 50°C
AE.3146 Plan semi apochromatic fluarex 10x/0.30 infinity corrected IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex 540x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex 5100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3156 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3127 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase 540x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3132 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3133 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm	AL.3 144	•	AL.3100-	
IOS objective. Working distance 10.6 mm  AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex S40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex S100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3127 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  Plan phase S40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.36 mm  Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  Telescope for alignment of phase contrast rings  Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	ΔF 3146	•	ΔF 3612-	
AE.3148 Plan semi apochromatic fluarex 20x/0.50 infinity corrected IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex S40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex S100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3127 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 12.1 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3131 Plan phase 5100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Plase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	712.5 1 10	•	712.5512	<del>-</del>
IOS objective. Working distance 2.33 mm  AE.3152 Plan semi apochromatic fluarex \$40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3127 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase \$40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3134 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3136 Telescope for alignment of phase contrast rings  AE.3137 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$100x	AE.3148	,	SL.5511	•
AE.3152 Plan semi apochromatic fluarex \$40x/0.75 infinity corrected IOS objective. Working distance 0.6 mm  AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3127 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase \$40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3134 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3135 Telescope for alignment of phase contrast rings  AE.3136 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$5100x		,		
AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3127 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase \$40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3134 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3136 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3137 Telescope for alignment of phase contrast rings  AE.3138 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$5100x	AE.3152	-	AE.3199	Glass fuses 3.15 A 250 V, 10 pieces
AE.3156 Plan semi apochromatic fluarex \$100x/1.28 oil immersion infinity corrected IOS objective. Working distance 0.21 mm  AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective. Working distance 12.1 mm  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3129 Plan phase 20x/0.45 infinity corrected IOS objective. Working distance 1.5 mm  AE.3130 Plan phase \$40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  AE.3134 Plan phase \$100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  AE.3130 Telescope for alignment of phase contrast rings  Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$5100x		•		, <b>,</b> ,
AE.3126 Plan phase 10x/0.25 infinity corrected IOS objective.  Working distance 12.1 mm  PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective.  Working distance 1.5 mm  PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective.  Working distance 0.36 mm  PB.5245 Lens cleaning paper, 100 sheets per pack  Working distance 0.36 mm  PB.5255 Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  IOS objective. Working distance 0.18 mm  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	AE.3156	-	OX.3010	Aluminium transport case with flight case locks
Working distance 12.1 mm  PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective.  Working distance 1.5 mm  PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective.  Working distance 0.36 mm  PB.5245 Lens cleaning paper, 100 sheets per pack  Working distance 0.36 mm  PB.5255 Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush,  air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x		infinity corrected IOS objective. Working distance 0.21 mm	OX.3011	Aluminium transport case with classical locks
Working distance 12.1 mm  PB.5165 Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective.  Working distance 1.5 mm  PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective.  Working distance 0.36 mm  PB.5245 Lens cleaning paper, 100 sheets per pack  Working distance 0.36 mm  PB.5255 Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush,  air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x				
AE.3128 Plan phase 20x/0.45 infinity corrected IOS objective.  Working distance 1.5 mm  PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective.  Working distance 0.36 mm  PB.5245 Lens cleaning paper, 100 sheets per pack  Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  IOS objective. Working distance 0.18 mm  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush,  air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	AE.3126	Plan phase 10x/0.25 infinity corrected IOS objective.	PB.5155	Microscope slides 76 x 26 mm, ground edges, 50 pieces
Working distance 1.5 mm  PB.5168 Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces  AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective. Working distance 0.36 mm  PB.5245 Lens cleaning paper, 100 sheets per pack Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  IOS objective. Working distance 0.18 mm  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x		Working distance 12.1 mm	PB.5165	Cover glasses 18 x 18 mm, thickness 0.13-0.17 mm, 100 pieces
AE.3130 Plan phase S40x/0.65 infinity corrected IOS objective.  Working distance 0.36 mm  AE.3134 Plan phase S100x/1.25 oil immersion infinity corrected IOS objective. Working distance 0.18 mm  PB.5275 Immersion oil, n = 1.482 (25 ml)  IoS objective. Working distance 0.18 mm  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	AE.3128	Plan phase 20x/0.45 infinity corrected IOS objective.		
Working distance 0.36 mm  PB.5255 Immersion oil, n = 1.482 (25 ml)  PB.5274 Isopropyl alcohol 99% (200 ml)  IOS objective. Working distance 0.18 mm  PB.5275 Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  PB.5276 AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x		_	PB.5168	Cover glasses 22 x 22 mm, thickness 0.13-0.17 mm, 100 pieces
AE.3134 Plan phase \$100x/1.25 oil immersion infinity corrected 1OS objective. Working distance 0.18 mm PB.5275 Isopropyl alcohol 99% (200 ml) Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  AE.3180 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, \$40x, \$100x	AE.3130	Plan phase S40x/0.65 infinity corrected IOS objective.	PB.5245	Lens cleaning paper, 100 sheets per pack
IOS objective. Working distance 0.18 mm  PB.5275  Cleaning kit: lens cleaning fluid, lint free lens tissue, brush, air blower, cotton swabs  AE.3183  Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x		_	PB.5255	
AE.3180 Telescope for alignment of phase contrast rings air blower, cotton swabs  AE.3183 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x	AE.3134	·	PB.5274	
AE.3183 Phase contrast Zernike condenser with 3 phase rings and one dark field stop and plan phase PLPH 10x, S40x, S100x		· -	PB.5275	-
one dark field stop and plan phase PLPH 10x, S40x, S100x				air blower, cotton swabs
	AE.3183			
and the second s		one dark field stop and plan phase PLPH 10x, S40x, S100x		Management



oil objectives