

## FS110 Materials Inspection Microscope



FS110 Brightfield/DarkField Mask Inspection Microscope

The FS110 Microscope can be configured to fit a wide variety of applications from metallurgy to micro-electronic component inspection. The large stable base accepts all Mitutoyo Ultra Long Working Distance optics that are available, in magnifications from 1X to 200X.

### Features

- Reflected light only or transmitted/reflected light stand
- Large stable base and frame that accepts 6" x 6" or 8" x 8" X/Y stages
- Plan apochromat infinity corrected strain free optics
- Ultra long working distance objectives
- Three trinocular body tube designs available
- Accepts (optional) differential interference contrast (DIC) accessories
- Slot in lamphouse mount for various filters
- Several sizes of wafer mask holders
- Selectable power input 120/220/240V AC, 50/60Hz
- Quartz halogen illumination
- Optional Brightfield/Darkfield illumination (reflected light)
- Five year Mitutoyo factory mechanical warranty; one year electrical

### Specifications: FS-110 Metallurgical Microscopes

Model No.	FS-110T	FS-110
Order No.	378-121A (120V AC)	378-122A (120V AC)
Optical tube		Optional
Workstage		Optional
Revolving nosepiece		Optional
Eyepiece		Optional
Objective		Optional
Focusing travel		30mm
Reflective illuminator		Optional
Transmitted illuminator	Provided (Light source): Halogen bulb (6V, 20W halogen lamp)	Not provided
Power supply	120/220/240V AC, 50/60Hz	
Mass	Approx. 34.1 lbs. (15.5kg)	

### Optional Accessories

Order No.	Description
378-856	10X eyepiece (Field number: 24), 2pcs./set
378-857	15X eyepiece (Field number: 16), 2pcs./set
378-858	20X eyepiece (Field number: 12), 2pcs./set
378-851	Extra-wide 10X eyepiece (Field number: 30)*
378-003	Trinocular tube, 1X (Erect image)
378-004	Trinocular tube, 1X (Inverted image)
378-001	Trinocular tube, 1X/2X switchable (Erect image)
12AAA646	Color filter (LB80)
12AAA643	Color filter (ND2)
12AAA644	Color filter (ND8)
12AAA645	Color filter (Green)
378-031	Reflected illumination unit (Bright/dark field)
378-032	Reflected illumination unit (Bright field)
378-085	Light source unit**
378-013	Revolving nosepiece w/4 lens mounts (B/D field)
378-014	Revolving nosepiece w/4 lens mounts (Bright field)
378-015	Revolving nosepiece w/5 lens mounts (Bright field)
378-074	Polarizing unit
378-075	Bright/dark field switching unit
378-021	Workstage (6" x 6"), Right-handed type
378-023	Workstage (8" x 8"), Right-handed type
514024	Stage glass for 6" x 6" workstage
514025	Stage glass for 8" x 8" workstage
378-051	Wafer holder (3" Dia.-6" Dia.)
378-055	Mask holder (3" x 3")
378-056	Mask holder (4" x 4")
378-057	Mask holder (5" x 5")
378-058	Mask holder (6" x 6")
378-059	Mask holder (7" x 7")
378-076	Differential interference contrast unit (100X, SL80, SL50X)
378-078	Differential interference contrast unit (50X, SL20X)
378-079	Differential interference contrast unit (20X)
378-080	Differential interference contrast unit (10X, 5X)
378-041	CCD camera mount adapter
	FS ULWD Objectives
378-792A	PCA photomicrography unit

\*Can be used with the special trinocular tube (378-001)

\*\*Light source: Halogen bulb (12V, 50W)

### Wafer and Mask Holders for IC Chip Inspection



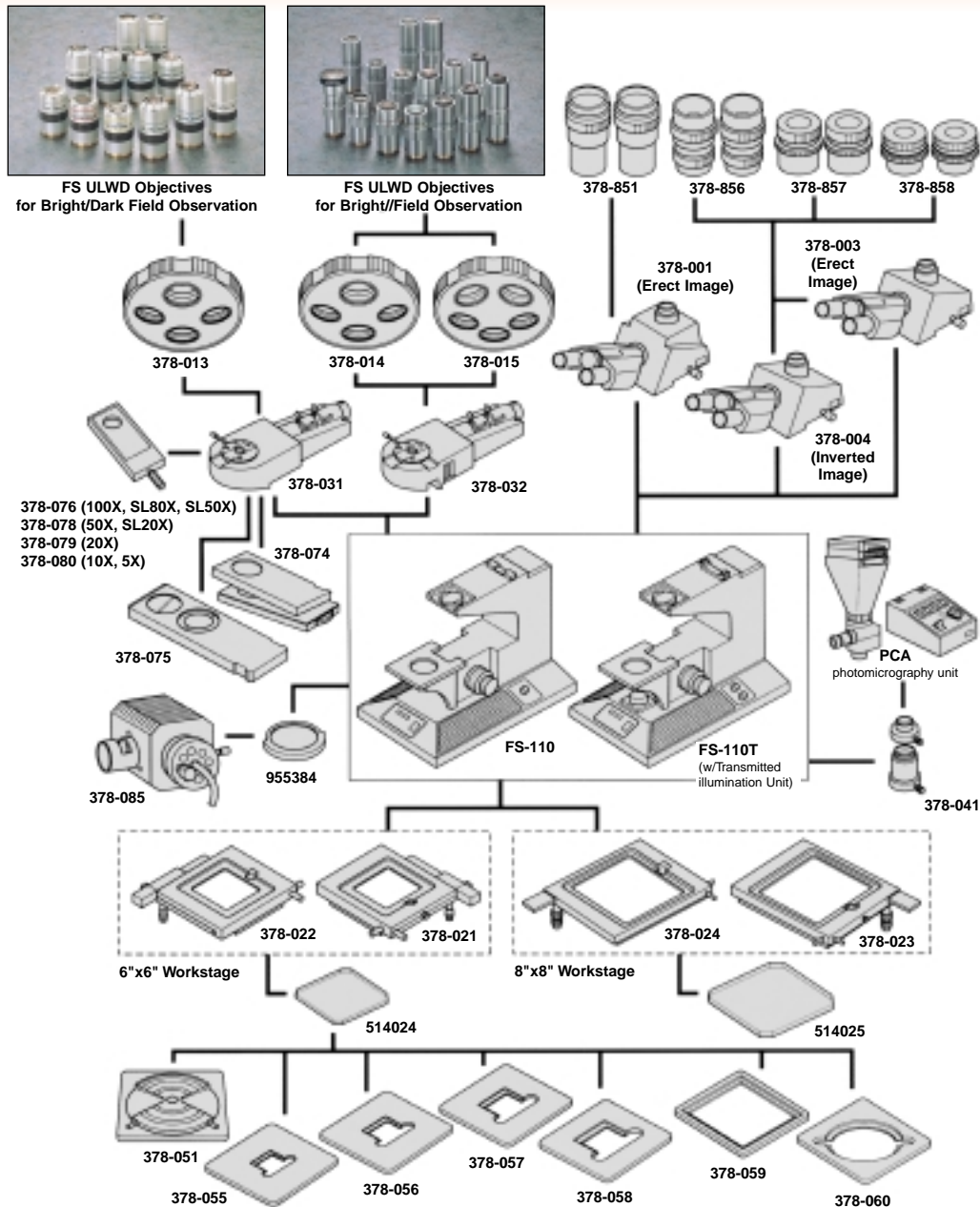
378-051 (ø3" to ø6")



378-055 (3" x 3")

# NEW Product News

## System Diagram



Distributed By:

**Mitutoyo**  
www.mitutoyo.com

Mitutoyo America Corporation

**New Jersey**  
18 Essex Road  
Paramus, NJ 07652  
Phone: (201) 368-0525  
Fax: 201-343-4969

**Michigan**  
45001 Five Mile Road  
Plymouth, MI 48170  
Phone: (734) 459-2810  
Fax: 734-459-0455

**Illinois**  
965 Corporate Blvd.  
Aurora, IL 60504  
Phone: (630) 978-5385  
Fax: 630-820-7403

**California**  
16925 Gale Ave.  
City of Industry, CA 91745  
Phone: (626) 961-9661  
Fax: 626-333-8019