

# KFM Attachment Units

UKFM-100



KFM Module



Lock-in Amplifier for KFM Measurement

These units are used for Kelvin Force Microscopy (KFM) as attachments of the AFM system of UNISOKU. These units make it possible to image the electric potential distribution of a sample surface.

## KFM Attachment Units UKFM-100

### ▶ Component

Lock-in Amplifier for KFM Measurement  
KFM Module  
(Au/Cr Coated Cantilever)

### ▶ Specifications

#### ▶ Lock-in Amplifier for KFM Measurement

Modulation Voltage : 0 to 1V, 0 to 10V  
Modulation Frequency : 2 to 20kHz  
Input Gain : x1 to x1000  
Output Gain : x1 to x500  
Response Time : 0 to 20msec, 0 to 2sec  
Output Offset : ±10V adjustable  
Detection Mode : f, 2f mode  
power : 15W, 100VAC (50/60Hz)  
size : 430mm×300mm×93mm  
Weight : about 4Kg

#### ▶ KFM Module

Input Voltage : ±10V  
Output Voltage : ±10V  
Filter : 1 kHz  
Feedback : PI control  
Power : 10W, 100VAC (50/60Hz)  
size : 257.4mm×102.6mm×262.2mm  
Weight : about 3Kg

#### Au/Cr Coated Cantilever

Cantilever : Piezoelectric Cantilever



Front View



Front View



Rear View

**KFM Lock-in Amplifier for KFM Measurement**



Rear View

**KFM Module**

Instrumental components subject to change without prior notice for improvement in performance.

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