Digital Microscope ShuttlePix P-400Rv

A new era of microscopy: “Shuttle style.”
ShuttlePix, a revolutionary portable digital microscope

The ShuttlePix digital microscope is an all-new, one-of-a-kind digital microscope that can be used as a docked device, for high magnification and various measurements, or as a portable digital camera, for capturing any sample sizes.

Simple Stand
- All-in-one design not needing a power source (simple reflection stand)
- Provides diascopic illumination imaging capabilities (simple diascopic LED stand)
- Quick view feature ensures fast image uploads to your PC
- Easy navigation with the Remote Control

Zoom Camera Head
- Cordless setup enabling image capture in the lab or in the field (Battery-powered with built-in illumination and SD card slot)
- Digital camera-like ease of use

Motorized Stand
- Extended Depth-of-Focus (EDF) image capture
- Intuitive stylus and icon-driven operation using dedicated Touch Panel Monitor (advanced image capturing, simple measurement, etc.)
- Dedicated PC software expands operation and possibilities (image processing, 3D/color height-maps, etc.)

Experience the high performance by Nikon’s high quality optics and advanced technologies

ShuttlePix STYLE

Compact body with no-lens changing
20x optical zoom

When used on the motorized focusing stand and touch panel monitor, this magnification increases to between 20x and 400x. ShuttlePix provides ample magnification range that ensures you never have to switch or purchase different lenses for different magnifications. Magnification information is also linked to ShuttlePix’s scale and simple measurement functions.

Scene mode
Automatic sample-optimized camera settings
Ensure optimal settings for image capture through five types of scene mode: wafer/IC chip, metal, printed circuit board, flat panel display, and high-reflection sample.

4-segment LED ring light
Newly-developed design for bright, even illumination

High NA / High definition / Wide field of view
Maximum optical performance

Nikon’s proprietary optics achieve precise observation and imaging with NA up to 0.2 (at 400x magnification) and 20mm-diagonal wide field of view (at 20x magnification). Changing of Resolution Preferred Mode and Depth-of-Focus Preferred Mode is also possible.

From shooting large samples to use in the field

Capable of shooting any sample size

The Handy can observe samples of all sizes, such as inspections of art displays to automotives. Use of the stand allows for abrasion observation of electronic and aircraft parts. With the built-in battery, cable-less operation is possible.
High-resolution, all-focused image capturing is possible without PC

with MOTORIZED STAND

Image capture and measurement with intuitive stylus and icon operation

Motorized Focusing Stand plus Touch Panel Monitor

ShuttlePix is equipped with a vertical-movement Motorized Focusing Stand and a 17" 1280x1024 color LCD Touch Panel Monitor. Through the intuitive operation of touching icons or using the screen stylus, precise image capturing and simple measurement are now possible.

Easy capturing of all-focused images

One-touch EDF

EDF images can be captured simply by operating the button located on the stand.

Perform measurements without a PC

Simple measurements

The touch panel monitor makes it possible to perform a truly wide range of simple measurements.

Stage options for every application

Stage lineup

Image capturing for large samples (up to 75mm×50mm×148mm) is possible with the Zoom Camera Head and Motorized Focusing Stand. Select from three dedicated Stages matched to the observation sample.

Quick 3D view

Captured images are simultaneously transmitted to the Shuttle Pix Editor, where 3D images can be viewed.

Capture digital microscopy images at any location

ZOOM CAMERA HEAD

Image capture with the ease of a digital camera

Zoom Camera Head

Image capturing is simple, with the use of the capture switch (trigger). The lightweight and ergonomic camera head allows for easy handling for all users. Voice recording is now available as a new function.

Scale display

(cross hairs, H, grid)

The scale display feature allows for confirmation of a sample or defect’s size.

High magnification image capturing and simple measurements anywhere anytime

with SIMPLEx STAND

Simple reflection/Diascopic LED stand

An all-in-one compact reflector stand with a battery operated Zoom Camera Head and a Diascopic LED Stand capable of diascopic observation are both available.

Easy operations at hand

Remote Controller

Image capturing, zooming, brightness adjustment, and illumination angles, can all be controlled. Stable operation is possible even when using Zoom Camera Head.

Automatically upload your images to PC

Quick view

The free, dedicated software ShuttlePix Editor (see p.6) can automatically upload images taken with the ShuttlePix to your PC. This enables users to immediately scroll through thumbnail images and perform simple measurements on selected images right after image capturing.
Wide range of features using the dedicated software
with PC / SOFTWARE

Free download and registration of software
ShuttlePix Editor

Conveniently outputs simple measurements and 3D EDF images or cross-section displays directly into Excel via dedicated ShuttlePix Editor* software. Software download from the Nikon website and user registration are free.

*Compatible with Windows XP and Windows 7 (Quick view feature only compatible with Windows® 7)

3D display
Use a 3D bird’s-eye view to display EDF images and height data taken with ShuttlePix. Rotation, zoom in/out, scale display, color-based heightmaps, and other image display operations are available.

Display and simple measurement of height data cross-section

Cross-section display and simple measurement
Display cross sections at specified positions based on height data embedded in EDF images. Perform simple measurements of the cross section including height, angle, and width, with measurement data displayable and recordable in tabular form.

Simple measurement
Add comments and markers to key measurements. Measurement results can be output in tabular form.


*Download of ShuttlePix Editor is limited to registered users of the product.

Dimensions

Zoom Camera Head
Motorized Focusing Stand + Touch Panel Monitor
Plain Stand C
LED Stand

System Diagram
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