



Advanced Test Equipment Corp © 2005

Keyence VH-6100 Digital Microscope with a Built-In Monitor

Features:

- **Compact, and lightweight and self-contained**
 The Keyence VH-6100 controller houses the color LCD monitor, still video recording system, camera controller and light source. Because of its compact size and lightweight, the VH-6100 can be conveniently carried to any job spot.
- **Extra-wide depth-of-field produces extra-sharp 3-D pictures.**
 Keyence's unique optical technology has greatly improved the depth-of-field.
- **Excellent clear picture**
 Employment of coaxial optical fiber illumination enables the brightness of the light source to be uniformly transmitted, thus consistently producing a clear picture.
- **Clear distinction of flaws on metal surface by means of lateral illumination.**
 The minute flaws on a metal surface, which cannot be detected by conventional microscopes, can be easily distinguished.
- **Automatic adjustment of light Intensity**
 Regardless of reflected light intensity which fluctuates according to the color and material of objects, the screen brightness is kept constant.
- **File name, date and time displayed on screen**
 An arbitrary file name consisting of alphanumerical characters, date and time can be displayed on the screen.
- **Scaler function**
 Using scale marks superimposed on the screen, the dimension of an object can be directly measured.
- **Coloring function**
 By coloring brighter or darker portions than the set values alone on the screen, any flow or concave on the metal surface can be emphasized.

Specifications:

Built-in monitor		5.6-inch color LCD
Still video recorder	Disk	Still video floppy disk (disk diameter:47 mm)
	Recording capacity	50 field still pictures
	Recording format	Hi-band
Camera	Image pickup sensor	1/2-inch CCD
	Effective pixels	574 (H) x 489 (V)
	Scanning method	2:1 Interlaced scanning
	Scanning frequency	Horizontal (H): 15 734 kHz, Vertical (V): 59.94 Hz
	Resolution	Horizontal (H): 360 min. Vertical (V): 350 min.
	S/N	46 dB
Light source	White balance	Automatic/Semi automatic/Manual
	Lamp	100 W halogen lamp
	Service life of lamp	1000 hours (average)
	Color temperature	3100°K (max.)
Video Output		VBS 1.0 Vp-p. in accordance with NTSC
AC output		3 \A max. (not coupled to power switch)
Recording signal remote input		No voltage input (contact/solid-state)