SONY

Video Microscope
TW-TL1V
TW-TL10V
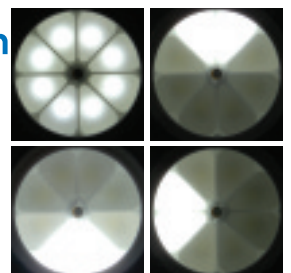
See thing's detail
Clearly!

TECHNO LOOK

Comming as the renovated model with the divided lighting function

- ■ High-performance CCD camera guarantees high-quality images
- ■ Power LED remarkably improves lighting function
  Light control volume adjustor allows easy intensity optimization
- ■ Analog RGB terminal allows TECHNO LOOK to be
  directly connected to a PC monitor.
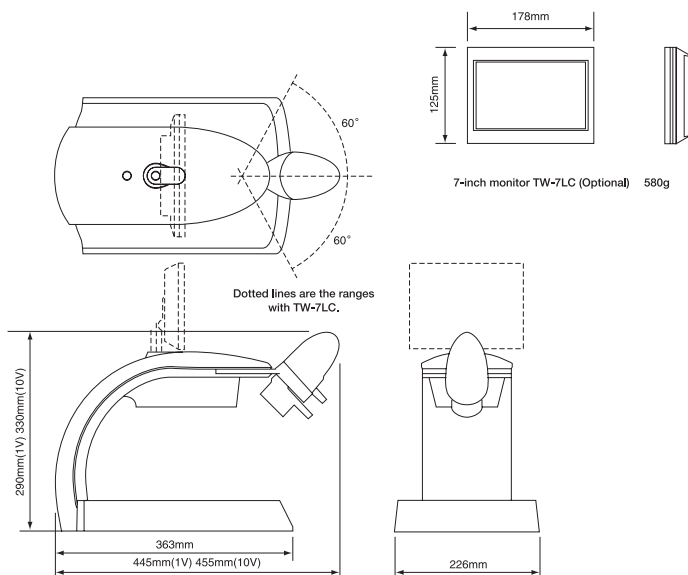- ■ Detachable 7-inch monitor can be mounted (Optional)

The "divided lighting function" works effectively when inspecting scratches or observing the configuration of metal surfaces.
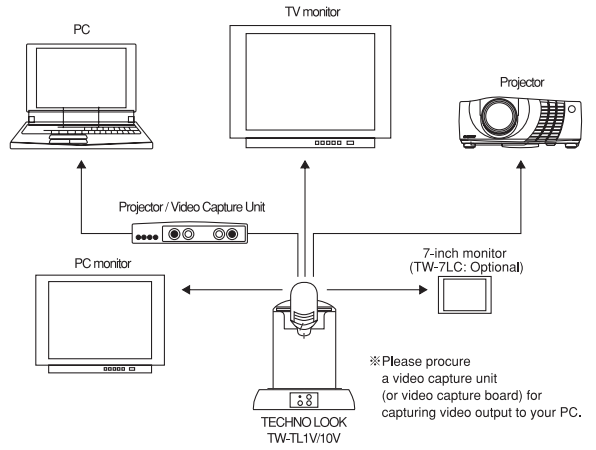
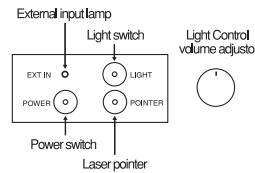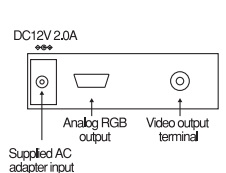**Sony Manufacturing Systems Corporation**

Dimensions

178mm
125mm

7-inch monitor TW-7LC (Optional)   580g

60°
60°

Dotted lines are the ranges with TW-7LC.

290mm(1V) 330mm(10V)

363mm
445mm(1V) 455mm(10V)

226mm

Sample System Assembly

PC
TV monitor
Projector

Projector / Video Capture Unit

PC monitor

7-inch monitor
(TW-7LC: Optional)

TECHNO LOOK
TW-TL1V/10V

※Please procure a video capture unit (or video capture board) for capturing video output to your PC.

Operation / Terminal Parts

Front Operation Switches

External input lamp
Light switch
Light Control volume adjustor

EXT IN   LIGHT
POWER   POINTER

Power switch
Laser pointer

Rear Output Terminals

DC12V 2.0A

Analog RGB output
Video output terminal
Supplied AC adapter input

Functions / Performance / Specifications

Model Name		TW-TL1V	TW-TL10V
Optical Magnification		×0.1 - ×1	×0.3 - ×3
Maximum Magnification	On 7-inch screen (TW-7LC: Optional)	approximately 40x	approximately 100x
	On 15-inch screen (not included in the unit)	approximately 80x	approximately 200x
Lighting device		8 pieces of White Power LED (Full/divided lighting selectable with the selector switch on the front panel)	
Maximum Light Intensity*1		7000Lux or more (in full lighting) at the center of work table	
Light Intensity adjustment		Non step-wise adjustment is available with the volume adjustor on the front panel.	
Laser Pointer		Class1 / Wavelength: 650nm / Spot diameter: φ2mm or less	
Lens		10x zoom lens (Manual)	
Vertical center adjustment range		Approximately 43°- 53°	
Camera swing range		±60°	
Iris adjustment		Manual	
Focus adjustment		Manual	
Working distance		105mm—180mm	
CCD camera		1/4 inch / 410,000pixels / 30frames/second	
External output	Dedicated connector on the top of main unit	Dedicated to 7-inch screen (TW-7LC: Optional)	
	Rear mini D-sub 15 pin connector*2	<VGA mode> / Video signal: analog RGB / TTL negative logic: 0.7Vp-p / Horizontal synchronous signal: 31.47KHz / Pulse width: 3.8µs / Vertical synchronous signal: 59.94KHz / Pulse width: 63.3µs	
	Rear video output	RCA type / Pin jack (75Ω unbalance) / NTSC composite signal	
Safety standard		CE, DHHS	
Dimensions		226 × 445 × 290	226 × 455 × 330
Weight		Approx 5.6kg	
Power supply voltage		DC12V (with supplied AC adapter)	
Input voltage with AC adapter		100 — 240V (50/60Hz)	
Power consumption of main unit (without optional TW-7LC)*3		35VA	
Operating temperature range		0 — 40℃ (No condensation)	
Storage temperature range		-15 — 50℃ (No condensation)	
Supplied accessories		AC adapter, AC power supply cord, lens cap, table, video cable (1m) and instruction manual	

*1: Maximum light intensity value specified on this sheet is valid only when the product is delivered as the brand-new. LED light replacement is available only at the licensed service stations.
*2: It is not guaranteed to be connectable with every type of monitor.
    Please select a monitor after checking RGB output specifications.
*3: It is 45VA with optional TW-7LC.

eco info Used material: 100% recycled paper, recyclable
Zero-VOC (Volatile Organic Compound) vegetable oil ink

⚠ Safety Notice: For your safety, please read the instruction manual carefully before using the product. * Specifications and appearance are subject to change for improvement without prior notice.

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