



**LÁMPARA ESTROBOSCOPICA  
SHIMPO PORTATIL  
MOD: DT-315A**

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# DIGITAL STROBOSCOPES

## DT-315A

Portability via internal battery pack

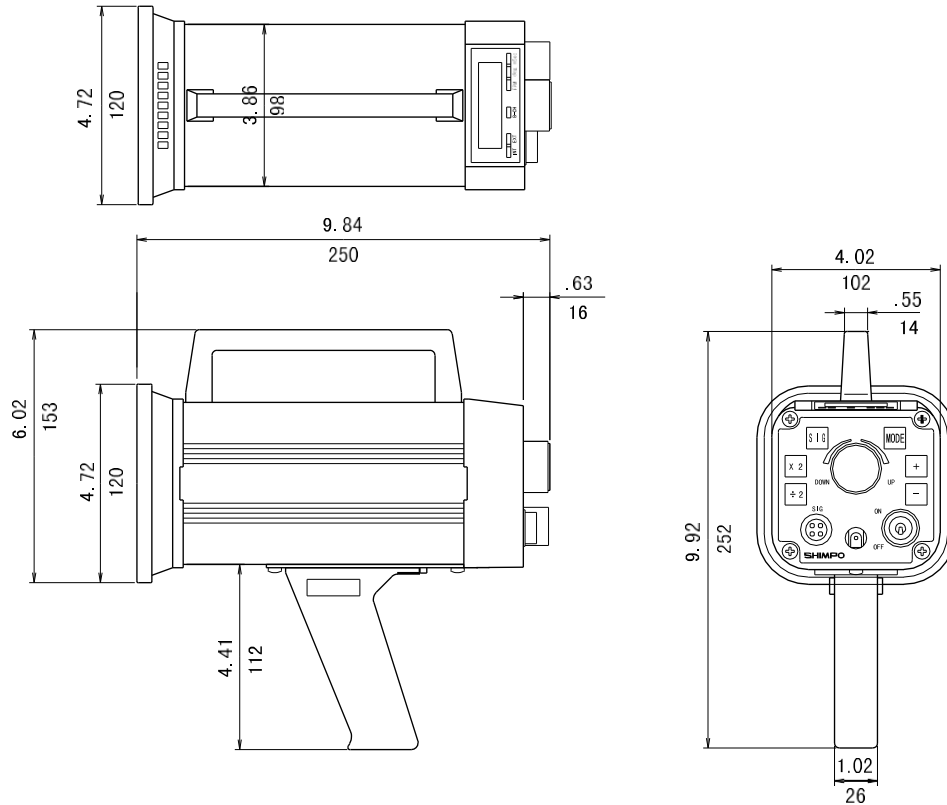
The microprocessor-controlled **DT-315A** possesses the same great features of the **DT-311A** with the added convenience of total portability via its own internal power supply with up to one hour of full time, high intensity flash rate. Powered by rechargeable batteries located inside its rugged aluminum housing, the **DT-315A** also performs as an AC line-powered strobe when plugged into its standard AC adapter/charger unit.



Features	Benefits
<b>Extruded aluminum construction</b>	Exceptional durability
<b>Internal battery supply</b>	Allows 4 hours of continuous duty on 1 charge
<b>Continuous duty cycle</b>	Prevents downtime waiting for unit to cool
<b>Phase shift</b> (in degrees of delay time)	Enables observer to focus on one particular area of rotating and/or reciprocating machinery
<b>Repeatable accuracy</b> (± 0.01% of reading)	Provides reliable measurement results
<b>Microprocessor-controlled</b>	Assures stability in changing temperature environments
<b>External trigger</b>	Unit is automatically synchronized with equipment
<b>Synchronous output</b>	Enables unit to drive other strobes
<b>Flash timer control</b>	Extends flash tube life
<b>Highly polished focused reflector</b>	Eliminates "blind" viewing areas
<b>Manual flash controller knob</b>	Permits easy/accurate adjustments to flash rate
<b>Fast recharge cycle</b>	Minimizes downtime to only 2 hours

**PRINTING QUALITY  
CONTROL**

Check registration and color



## SPECIFICATIONS

DT-311A

INTERNAL MODE	
Flashing Range	40.0 - 35,000 FPM (flashes per minute)
Accuracy	±0.01 % of reading
Resolution	0.1 FPM: 40.0-5,000 FPM   0.2 FPM: 5,000-8,000 FPM   0.5 FPM: 8,000-10,000 FPM   1 FPM: 10,000-35,000 FPM
Phase Shift	Use +/- push buttons (360° in 6 seconds)
Display Update Time	0.2 seconds approx.
Output Signal	Synchronous, 400 µsec. Pulse output, 0 to +12 VDC amplitude (approx.), 4.7 KΩ impedance
Rate Multiplier/Divider	Multiply by 2, divide by 2
EXTERNAL MODE	
Flashing Range	0.0 to 35,000 FPM
Accuracy	±0.01 % ±1 digit
Phase Shift	0 to 359° with 1° resolution
Delay Time	0 to 2,000 µsec from 40 - 10,000 FPM
External Trigger Input Signal	LO level : 0 - 0.8 VDC, HI level : 2.5 - 12 VDC or open collector (NPN), pulse width 50 µsec min.
Input Impedance	4.7 KΩ to 12 V / 6.8 KΩ to 0 V
GENERAL	
Display	5 digits, 0.4" (10 mm) high, LED
Flash Tube Power/Life	Xenon, 10 W max. (100 million flashes)
Flash Duration	10 - 40 µsec
Sensor Power Supply	12 VDC (40 mA)
Low Battery Indicator	Display shows all L's
Battery Life	1 - 2 hours depending on flash rate
Power Requirement	Internal battery pack
Operating Temperature Range	32° - 104°F ( 0 - 40°C )
Weight	4.4 lb (2 kg)
Dimensions	9.84" L x 4.72" W x 4.72" H (250 mm x 120 mm x 120 mm)
Warranty	1 year
Standard Accessories	Fast charger
Optional Accessories	Carrying case, sensors, SG-300 strobe guard