Digital Stroboscope

HHT30R Series

1 YEAR WARRANTY **NIST** **CE**
Standard

- ✔ **NIST Calibration Certificate Included**
- ✔ **Internal Rechargeable Batteries or AC-Powered Models**
- ✔ **Electronic Switching Provides Continuous Cool Operation**
- ✔ **Tachometer Mode**
- ✔ **Internal Phase Shift**
- ✔ **Easy-to-Read Backlit Digital Display**
- ✔ **Latching Trigger and ¼-20 UNC Tripod Mount Allow Hands-Free Operation**
- ✔ **TTL-Compatible Input/ Output Jacks**
- ✔ **Splashproof Cover Available for Battery Models**
- ✔ **6 User-Programmable Memory Locations**

The HHT30 digital stroboscope provides reliable and accurate speed measurements as well as stop-motion diagnostic inspection. A rotary encoder enables quick, precise frequency setting from 30 to 14,000 flashes per minute. The crystal-controlled circuitry eliminates drift and allows readings accurate to 0.1 rpm. "Divide by 2" and "Multiply by 2" buttons let the user check actual rpm. With "Phase +" and "Phase -" buttons, the user can add or subtract internal phase delays to keep the reference viewing target in eyesight. An "Adder Mode" enables visual inspection for misalignment or bent odd-numbered fan blades, propellers, etc. In the "Tach" mode, the unit uses external sensors to measure up to 200,000 rpm directly without flashing the strobe. Up to 6 preset memory values can be recalled from memory, and the unit recalls the last value measured.

A "% Charge" indicator shows remaining battery life. The microprocessor-controlled charging circuit ensures long battery life.

Specifications

Flash Range: 30 to 14,000 fpm, 0.5 to 233.33 fps
Flash Accuracy: ±0.01% rdg or ±0.5 fpm
Flash Resolution: 0.1 fpm
Tach Range: 5 to 200,000 rpm
Tach Resolution: 0.1 rpm, up to 99,999.9 rpm; 1 rpm, 100,000 to 200,000 rpm
Tach Accuracy: ±0.01% rdg or ±0.2 rpm
Display: 6-digit backlit alphanumeric LCD, 12.7 mm (0.5")
Average Power:
   HHT31: 15 W
   HHT32: 10 W
Flash Energy: 180 mJ (typical)
Flash Duration: 20 to 50 µs
Flash Tube Life: 100 million flashes typical
Power Supply:
   HHT31: 115 or 230 Vac, 50 to 400 Hz
   HHT32: Internal rechargeable batteries, 6 Vdc @ 2.5 A max
Battery Life (HHT32): Greater than 60 minutes @ 6000 fpm
External Trigger Input: ⅛" phone plug, TTL compatible
Trigger to Flash Delay: 5 µs, typical
Synchronization Output: ⅛" phone plug, TTL compatible
Weight:
   HHT31: 0.7 kg (1.5 lb)
   HHT32: 1.1 kg (2.5 lb)
Dimensions:
   Body: 90.4 H x 93.0 W x 229 mm L (3.56 x 3.66 x 9")
   Reflector Housing: 122 mm Dia. (4.8")
   Handle: 108 mm L (4.25")
Tripod Mount: ¼-20 UNC
Operating Temperature: 5 to 40°C (41 to 104°F)
Operating Humidity: Max RH 80% for temperatures up to 31°C (88°F), decreasing linearly to 50% RH @ 40°C (104°F)

HHT32R shown smaller than actual size.

To Order

Model No.	Description
HHT31R	Stroboscope, 115 Vac powered
HHT31R-KIT	HHT31 with rugged case and spare lamp
HHT31R-230	Stroboscope, 230 Vac powered
HHT31R-230-KIT	HHT31-230 with rugged case and spare lamp
HHT32R	Stroboscope with internal battery, 115 Vac, 3-hr recharger
HHT32R-KIT	HHT32 with 3-hr recharger, case and spare lamp
HHT20-ROS	Remote sensor for tachometer mode
HHT32-SPC	Splashproof protective cover for HHT32 models only

Comes complete with operator's manual and NIST certificate. HHT32 also includes rechargeable battery and AC charger. "-KIT" models also include rugged carrying case and spare lamp.