

# Digital Stroboscope

## HHT30R Series



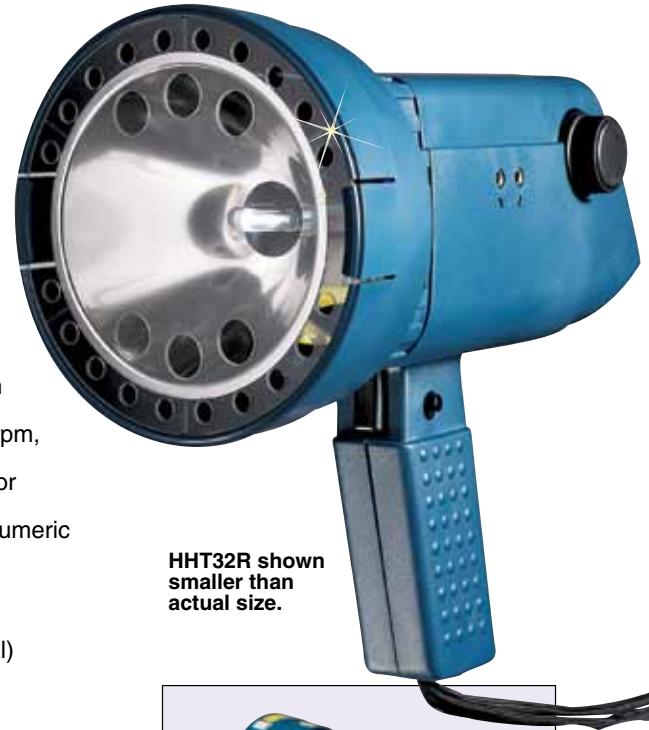
- ✓ NIST Calibration Certificate Included
- ✓ Internal Rechargeable Batteries or AC-Powered Models
- ✓ Electronic Switching Provides Continuous Cool Operation
- ✓ Tachometer Mode
- ✓ Internal Phase Shift
- ✓ Easy-to-Read Backlit Digital Display
- ✓ Latching Trigger and 1/4-20 UNC Tripod Mount Allow Hands-Free 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:** 1/8" phone plug, TTL compatible  
**Trigger to Flash Delay:** 5 µs, typical  
**Synchronization Output:** 1/8" 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:** 1/4-20 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.



OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

### 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.

**Ordering Example:** HHT32R-KIT, stroboscope with rechargeable battery, 115 Vac fast charger, rugged case and spare lamp, HHT32-SPC, splashproof cover.

OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.