

# RISHI D30 K STROBOSCOPE

## HIGH BRIGHTNESS AT ANY SPEED

THE NEW WAY FOR STROBOSCOPIC OBSERVATION:  
STATIONARY IMAGES ARE ALWAYS OBTAINED WITH A HIGH BRIGHTNESS  
AT ANY SPEED OF THE OBSERVED OBJECT



- FREQUENCY RANGE UP TO 30.000 FLASHES/MIN (RPM) WITH LCD DIGITAL SPEED READOUT
- INNOVATIVE MICROPROCESSOR CIRCUIT TO DEVIDES FLASH FREQUENCY AUTOMATICALLY
- HIGH BRIGHTNESS FLASHES REGARDLESS OF INPUT FREQUENCY
- DOUBLE POWER SUPPLY: INTERNAL RECHARGEABLE BATTERY + 220Vac
- HIGH BRIGHTNESS INTERNAL LAMP FOR CONSTANT OPTIMAL OBSERVATIONS
- FLASH CONTROL BY INTERNAL OSCILLATOR AND BY EXTERNAL TRIGGER
- PHASE SHIFTER CIRCUIT TO SHIFT THE ANGLE OF OBSERVATION ON 360°
- SMALL DIMENSION, LIGHT-WEIGHT, EASY TO HANDLE
- RUGGED, COMPACT, RELIABLE
- FULLY COMPLIES WITH CE DIRECTIVES

### **RISHI D30 K**

#### **INNOVATION IN STROBOSCOPIC OBSERVATION**

With the new **D30 K** Stroboscope it is possible to obtain stationary images of an object always with a high flash brightness at any movement speed, thanks to an innovative microprocessor circuit that automatically divides real frequency each time a certain limit has been overcome: stopped image happens at submultiple frequencies of the real frequency, while flash brightness is always with high intensity. Functionality and reliability of instrument will be particularly appreciated: a high flash brightness is always available for constant optimal observation and the problems of over-range and over-heating due to flash synchronization of fast speed by external trigger are totally eliminated. Moreover a "direct readout" function is available to directly measure the real speed of an object: flash frequency is not divided by microprocessor and it is possible to observe and to measure the real speed of an object in a precise way.

#### **DESIGN AND OPERATION**

The **D30 K** Stroboscope is a portable professional instrument that combines compact dimension with good performance and reliability, suitable to observe and to measure fast motions. Revolution readout in RPM is easy thanks to a large dot matrix LCD display. The synchronization of the flash lamp occurs by means of external trigger (with tachimetric function) such as the Internal oscillator with coarse and fine regulation for a quick and precise adjustment. Double AC/DC power supply permits to use the instrument without connection cables, also when the AC power supply is not available or in uncomfortable conditions. Internal rechargeable battery makes it possible to use the instrument for a long time, without need of connection cable, while it is always possible use the stroboscope with AC power supply (by means of the supplied AC adapter).

High brightness internal lamp with function permits constant optimal observation. The phase shifter circuit allows an image shifting of 360°, to obtain the angle of observation into the most favourable position. Compact dimension and light-weight makes **D30 K** Stroboscope ideal for hand-held operation. The instrument is encased in a rugged, high-impact plastic housing & battery charger supplied.

#### **APPLICATIONS**

The **D30 K** stroboscope is always used in all Production and Maintenance Industries, wherever motion sequences have to be analysed or rotation speeds have to be measured.: observation on textile and printing machines - quality control - observation of mechanical deformations - packaging - laboratories - etc.

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### **STROBOSCOPE D30 K**

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<b>FREQUENCY RANGE</b>	250 - 30.000 flashes/min (external signal up to 128.000 impulse/min are accepted)
<b>DIRECT USE</b>	Flash frequency 250 - 30.000 flashes/min
<b>AUTOMATIC DIVISION USE</b>	Flash frequency 250 - 4.000 flashes/min (automatic flash division set at 4.000 flashes/min)
<b>DIVIDER FREQUENCY</b>	automatic flashing division :2 :4 :8 :16 :32, on external signal and internal oscillator
<b>FLASH CONTROL</b>	by internal oscillator not divided - by internal oscillator divided - by external signal divided
<b>INTERNAL OSCILLATOR</b>	coarse and fine adjustment of flash frequency
<b>EXTERNAL TRIGGER</b>	electric signal >1Vpp - inductive sensor -photocells - microswitch - (with tachimetric function)
<b>DISPLAY</b>	by means of dot matrix LCD display in RPM
<b>RESOLUTION</b>	1 RPM
<b>DELAY TIME</b>	adjustable from 0,1 a 60 ms. approx
<b>LAMP</b>	long life xenon white light tube
<b>FLASH ENERGY</b>	20 - 180 mWs/flash (in Automatic Flashing Division Use flash energy is always max)
<b>POWER SUPPLY</b>	double AC/DC (by means of supplied AC adapter) : 220Vac + internal rechargeable battery Battery life : from 1 to 5 hours about (depending on frequency)
<b>DIMENSION</b>	115 x 70 x 195 mm - <b>WEIGHT</b> 0,750 kg - <b>SUPPLIED ACCESSORIES</b> charger