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The Beacon

The Beacon now allows paper machine operators to see formation activity across the entire paper machine. The Beacon's powerful beam illuminates areas up to 5 meters away. For the first time, you can see formation activity across the entire wire as well as study the dewatering process, ensure nozzle spray quality and determine felt and wire wear quickly and easily anywhere on the machine. The Beacon also synchronizes easily to any video recorder or camera to provide a motion analysis tool that reduces diagnostic maintenance by 90%. Now detail study, training tapes, and fine details of surface quality are easily seen.

See activity across the entire paper machine

See formation defects, edge integrity and dewatering

Reduce diagnostic maintenance by 90%

Reduce costly downtime

Key Features

- Illuminates surface 5 meters away
- Designed for harsh conditions of paper mill
- 3 different intensity settings
- 3 flash ranges: 6000, 12,000 & 18,000 fps
- Phase control for camera synchronization
- Easy and quick battery change for portability

The Beacon Advantage

- Immediate knowledge of process adjustments
- Spot "stickies", wire wear and water re-entry
- Monitor start up procedures after shutdown
- See jet impingement angle/shower performance
- Monitor performance of all mechanical functions

Applications

PAPER: Formation, stock jump, dewatering, transfer points, felt and wire wear, motion analysis, rope speed, nozzle performance, jet impingement angle, verify rotational speed, monitor mechanical functions, stock build up on felts and wires as well as couch roll, monitor lubrication system and high pressure showers.

Specifications

DC POWER PACK
- Rechargable NiCd pack
- 14.4 VDC nominal voltage
- 2.4 amp hour

PHYSICAL
- Dimensions:
  168.3 mm x 161.0 mm x 342.0 mm
- Weight (with battery) 2.3 kg

OPERATING CONDITIONS
- Flash Rate - 18,000 F/M, Intensity = 33%
- Flash Rate - 12,000 F/M, Intensity = 66%
- Flash Rate - 6,000 F/M, Intensity = 100%

BATTERY RUN TIME
- 60 Minutes
- 22 Minutes
- 14 Minutes

A/C POWER CONVERTER
- Input: 90 - 250 VAC 50/60Hz
  200VA Max
- Output: 15VDC 10.7 A Max
- Cord: 5 Meters (Retractable Coil)
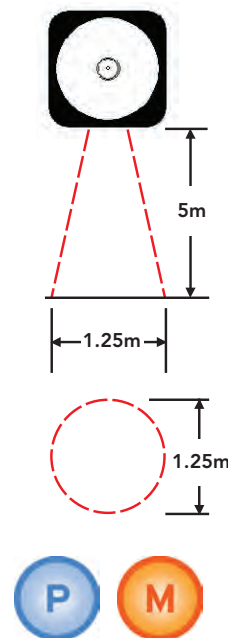
TRIGGERING

Internal
- 30 Flashes/Min (F/M) to 18,000 F/M
- Automatically limits to max rate of
  selected intensity level (6,000 F/M,
  12,000 F/M, 18,000 F/M)
- 1 F/M resolution
- 100 ppm/°C accuracy

External
- Video 1Vp-p unterminated triggers
  from 50Hz-60HZ vertical sync
- Pulse Source: +2.5V pk, 100μsec min
  pulse width input impedance 10kΩ
- Contact Closure: 8VDC @ 10mA rating
- 0-360 degree phase delay adjustment
  available when using external triggering
- Phase delay accuracy +1 or -1 degree

ENERGY OUTPUT
- 100% Intensity: 0.85 joules/flash
- 66% Intensity: 0.43 joules/flash
- 33% Intensity: 0.28 joules/flash
- Light Output: 1720 lux at 5 meter
  100% intensity, 6000 F/M

5m

1.25m

1.25m

SEE FINE DETAIL

The Beacon freezes the action, giving personnel a stop action view of the process or mechanical operation. Problems and defects stand out, and operators can use their knowledge of the product, process or equipment to determine the cause of the problem and its solution.

Without Strobe

With Strobe

MOTION ANALYSIS

Using the Beacon with either video or still cameras, allows recording and storage of images of every aspect of the machine's operation when running properly. Mill operators can use those images as reference points when checking the machine for adjustments and analysis of problems that require action be taken. This reduces diagnostic maintenance time by 90%.

SLING POUCH

Mill personnel can now be hands-free and easily navigate in between machine parts and up and down stairs.

SHIPPING & STORAGE CASES

Whether you're moving the light between mills or between machines, the canvas storage case makes it easy to carry everything you need for inspection. With the ATA rated hard case for air shipments, you never have to worry about anything breaking in transport.

To find a UNILUX representative near you, call 1-800-522-0801 or go to www.UNILUX.com

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