



# RELIABLEPLANT

Home | News | Conference | White Papers | Blogs | Newsletters | Forums

- >>NAVIGATION
- Industry News
  - Web Exclusives
  - Podcasts
  - Archives
  - Blogs
  - Buyers Guide
  - Bookstore
  - Industry Links
  - Advertise with Us
  - About Noria
  - Industry Honors
  - Contact Us
  - Search

MY YAHOO!

Subscribe in a reader

BOOKMARK

**Align rotating shafts in just 1 or 2 moves.**

**View the video to see how**

Watch Here

## Camera captures 1st thermal image of far side of moon

RP news wires  
[PRINT](#) | [EMAIL](#)

Pioneering thermal imaging company Thermoteknix Systems Ltd. has captured the first thermal image of the far side of the moon. A Thermoteknix MIRICLE TB2-30 thermal camera was launched into space aboard NASA's LCROSS mission to search for the presence of water on the moon.

LCROSS payload manager and chief scientist Anthony Colaprete contacted Thermoteknix to say that "the Thermoteknix camera provided the first thermal images of the far side of the moon and also images of earth and the moon from distances as great as 560,000 and 850,000 kilometers away, respectively. The camera has work flawlessly for nearly 100 days (and counting) in interplanetary space."

A Centaur spacecraft launched from the orbiting LCROSS craft will make a direct vertical impact into the moon on Friday, October 9, creating a huge plume of dust which will be analyzed for water by a number of different instruments including the Thermoteknix thermal camera, which will follow the Centaur down four minutes later as it impacts the moon surface. The debris plumes are expected to be visible from Earth- and space-based telescopes 10 to 12 inches and larger.

Last week, an Indian orbiter participating in NASA's Moon water project made spectroscopic measurements of the moon's upper atmosphere that support the possibility of sub-surface water/ice. The Centaur impact into the moon surface itself will release materials from the lunar surface that will be analyzed for the presence of hydrated minerals and will be a major step in confirming or otherwise, the existence of water on the moon. Discovering water on the moon is not only important for supporting prolonged manned visits to the moon but could potentiate the production of rocket fuel outside the earth for venturing further into space.

MIRICLE TB2-30 is the same camera which has already been used on Formula 1 and IndyCar race cars and most recently in several highly successful Aegis Ballistic Missile Defense tests. The MIRICLE radiometric aerospace qualified system is calibrated for temperature measurement in the harshest of environments under the most extreme vibration conditions.

Cambridge, England-based Thermoteknix Systems Ltd. was founded in 1982 and has been at the forefront of thermal imaging technology for over a quarter of a century. Thermoteknix has twice been awarded the coveted Queen's Award – most recently in 2008 for innovation for its MIRICLE range of thermal imaging cameras.

[The impact can be viewed live on NASA TV: - CLICK HERE TO VIEW](#)

### Vibration Analysis Is Vital to Reliability

**VSA-Series Analyzers: High Performance, Low Price, So Easy You'll Actually USE Them**

www.datastick.com  
 USA Toll-Free: 888 277 5153

Get a FREE copy of **6 Essentials for Effective Procedure-based Maintenance** when you sign up for Reliable Plant weekly email updates

[Get FREE Report](#)

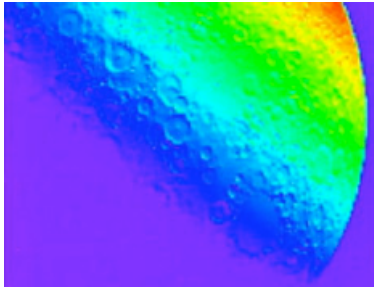
- >>WHITE PAPERS [view all]
- Video White Paper: Find Sources of Energy Waste
  - Video White Paper: Energy Monitoring and Management
  - Lubrication Process Design
  - A Practical Guide to Implementing Operator-Based Reliability (OBR)
  - Constructing an Effective Lubrication Procedure
  - Ten Pitfalls to Avoid When Selecting a CMMS/EAM

- >>LATEST BLOG POSTS
- Where do you want your CI initiative to go in 2010?
  - Effective communication: Turn this weakness into a strength
  - Is there life after the death of predictive maintenance?
  - Are you a leader or are a manager? Do you know the difference?
  - Bringing the message of lean to Africa
  - Lean evolves: How to make the most of process improvement
  - The power of a clear, concise vision to improve M&R results
  - Redundancy is not a four-letter word!
  - Reliability is a 'green initiative'
  - In the M&R business, good enough never is
  - How to accomplish a lean turnaround at warp speed
  - Skimping on the training puts your CMMS project at risk
  - Turn around your company by following lean model
  - Information management is the key to maintenance performance
  - P-cards are a help that also hurts; here's how to reverse the curse
  - The root cause just isn't that important
  - Work/life lessons and 16 important things to ponder
  - 10 - 1 = 16.5; with maintenance planning, it's possible

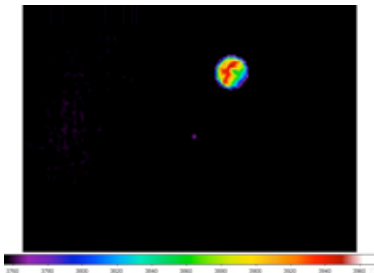
Popular Topics

[www.vibrallgn.com](http://www.vibrallgn.com)  
800-379-2250

Projected lunar impact is on October 9 at approximately 12:31:30 GMT (7:31:30 a.m. EDT, 4:31:30 a.m. PDT).



This first ever thermal image of the moon was taken with MIRICLE TB2-30



MIRICLE thermal image of the earth



MIRICLE TB2-30 Thermal Imager

**Infrared Thermometers**

Noncontact temperature measurement for industrial applications.

[www.ircon.com](http://www.ircon.com)

**Thermal Imaging Camera**

Fluke Thermal Imaging Cameras. Wide Selection & Fast Delivery!

[Transcat.com](http://Transcat.com)

**AN/PAS-28 MRTB by ELCAN**

USMC IDIQ contract award winner! Learn more about the PhantomIRxr.

[www.anpas-28.ELCAN.com](http://www.anpas-28.ELCAN.com)

Ads by Google

Please reference this article as:  
RP news wires, "Camera captures 1st thermal image of far side of moon".  
*Reliable Plant Magazine.* /  
Email this • Save to del.icio.us



**Predictive Maintenance**  
The Rodney Dangerfield of predictive technologies



**Procedures**  
The use of equipment checklists - an emotion-packed discussion



**Maintenance Excellence**  
34 Signs You're Living in the Real World of Maintenance



**Lean Manufacturing**  
Signage and labeling: Safety tips you need to use today