

Life On BlackBerry  
Explore Now >



BlackBerry



Good Morning America | World News | 20/20 | Primetime | Nightline | This Week | ABC News Now | i-Caught  
Sunday, August 17, 2008  
Register | Sign In

Search  GO

Home | News Brief | World | U.S. | Investigative | Politics | Money | Health | Entertainment | ESPN Sports | SciTech | Law | Travel | Hopkins

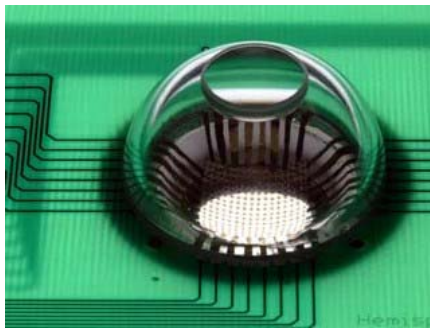
SPONSORED BY BlackBerry

Home > Technology & Science > AheadoftheCurve

## Eye Spy: U.S. Scientists Develop Eye-Shaped Camera

By Julie Steenhuisen  
August 6, 2008

1 comment



An eye-shaped camera recently developed by an Illinois-based team including three South Korean researchers, says it significantly reduces image distortion and allows a wider range of vision (newscom.com)

CHICAGO (Reuters) - Borrowing one of nature's best designs, U.S. scientists have built an eye-shaped camera using standard sensor materials and say it could improve the performance of digital cameras and enhance imaging of the human body.

The device might even lead to the development of prosthetic devices including a bionic eye, they said.

"This is the first time we've demonstrated a camera on a curved surface to really make it look like a human eye," said Yonggang Huang of Northwestern

University in Evanston, Illinois, who reported his findings on Wednesday in the journal Nature.

Huang, who worked on the project with John Rogers of the University of Illinois at Urbana-Champaign, developed a relatively simple solution to the long-running problem of transferring microelectronic components onto a curved surface without breaking them.

"If you simply bend it, those materials are brittle like a ceramic bowl. They break," Huang said in a telephone interview.

FONT SIZE A A A  
EMAIL  
PRINT  
SHARE  
RSS

### Related



Eye "Telescope" Not Just for Bionic Man



Contacts Lenses Go Bling and Bionic



WATCH: Science Fact! Man Gets Bionic Hand

To solve this, Huang and Rogers developed a mesh-like material made up of tiny squares that hold the photodetectors and electronic components. The squares are connected by tiny wires that give each component the ability to mold to a curved surface.

### IMPROVING THE FIELD OF VISION

"This approach allows us to put electronics in places where we couldn't before," Rogers said in a statement.

With funding from the National Science Foundation and the U.S. Department of Energy, Huang and Rogers built a digital

### Watch Video



WATCH: Faith Matters



WATCH: Helping Hands



WATCH: Bill Murray's Big Drop

Life On BlackBerry

BlackBerry  
Explore Now >

### Technology News



WATCH: Officials: 'Big One' Could Be Next  
Temblor expert Lucy Jones discusses the earthquake that hit California.

WATCH: Officials: 'Big One' Could Be Next  
WATCH: Predicting the Big One  
WATCH: Sidekick Gets Personal  
WATCH: Google: Best 368 Colleges  
WATCH: The Secrets of Infomercials

### Slideshows



PHOTOS: Eighth Gold: Phelps Passes Spitz



PHOTOS: Kate and Wills' Royal Vacation



PHOTOS: Model Cougar Claws Hockey Star

### Top Stories

Sponsored Links

Teeth Whitening Warning

See what Dentists AREN'T telling you, but you need to know! WhiteningReview.com

I "Hate" my Yellow Teeth

The Secrets Dentists don't want you to know about Teeth Whitening! www.best-teeth-whitening...

Buy a link here

camera that has the size, shape and layout of a human eye. Huang said the curved shape greatly improves the field of vision, bringing the whole picture into focus.

"Currently when you take photos, the middle part of the picture is very clear but when you go to the edge, it is not so clear," Huang said. "The curved technology will make the entire picture clear."

But the applications extend beyond taking better vacation photos.

"It really extends to all of the electronics that we use on humans. You want to have a curved surface to fit the human body. That is really the place it can be used," he

said.

1 | 2 | NEXT >

Post a Comment

Next Story: iPhone App Store Nets \$1M a Day

Sponsored Links

Teeth Whitening Warning

See what Dentists AREN'T telling you, but you need to know! WhiteningReview.com

I "Hate" my Yellow Teeth

The Secrets Dentists don't want you to know about Teeth Whitening! www.best-teeth-whitening.com

Become a Microsoft Guru

Tech savvy? Like people? Become a Microsoft Windows Guru. www.msretailive.com

Buy a link here

SHARE

DIGG

DELICIOUS

FACEBOOK

PRINT

EMAIL

RSS

UPLOAD



Comment & Contribute

If you would like to tell us more facts about this story, please click here to send the editors of ABC News a separate email with the information you have.

Empty text box for user comments.

POST YOUR COMMENT

Member Comments (1)

that would be great if they can develope it for humans floatflyer13 Aug-8

View All Comments (1)

More Coverage

Eye 'Telescope' Not Just for Bionic Man

Contacts Lenses Go Bling and Bionic

WATCH: Science Fact! Man Gets Bionic Hand

Dolphin Gets on Swimmngly With Bionic Tail



Visitors Urged to Leave Florida Keys Ahead of Fay

Phelps Wins 8th Gold Medal; Breaks Tie With Spitz

8 for 8: Phelps' Gold Breaks Record

ABC News to Go

RSS Feeds

E-mail Newsletters

Podcasts

ABC News Mobile

Most Popular

Viewed Commented Emailed

Obama and McCain Split on Abortion

8 for 8: Phelps' Gold Breaks Record

Forecasters: Floridians Should Prepare for Hurricane

WATCH: Is Bigfoot Real?

WATCH: Aged Tires: A Driving Hazard?

WATCH: An Out-of-Control Virus

PHOTOS: Kate and Wills' Royal Vacation

PHOTOS: Eighth Gold: Phelps Passes Spitz

PHOTOS: Miley Cyrus' New Crush?

More Popular News >

SmartHome FOR A SMARTER LIFE. Learn about the home of tomorrow, today. SPONSORED BY hp

See what's cooking on GMA. Get the tips, tricks, and recipes from our show! Click Here! GOOD MORNING AMERICA

ADVERTISER LINK

The New York Times

Get home delivery of The New York Times for as low as \$3.15 a week.

Must-Click Tech Features



**PHOTOS:** Tiger Cub Works on Its Tan



**PHOTOS:** Hubble Makes 100,000th Orbit



**PHOTOS:** Tiger and Pup: Friends Forever



Contacts Lenses Go Bling and Bionic



Will Google Buy Digg?

[Feedback](#) | [Wireless](#) | [E-mails & News Alerts](#) | [Message Boards](#) | [RSS Headlines](#) | [Podcasts](#) | [ABC News Store](#)

[Contact Us](#) | [ABC.com](#) | [Site Map](#) | [Advertising Info](#) | [Terms of Use \(Updated 5/6/08\)](#) | [Privacy Policy/Your California Privacy Rights](#)

External links are provided for reference purposes. ABC News is not responsible for the content of external internet sites.

Copyright © 2008 ABCNews Internet Ventures