

---

# Tunable Laser Diodes And Related Optical Sources

Waveguide Ring Resonators tunable laser diode. Dr Jens Buus Profile. Tunable Lasers Generating Wavelengths from the UV Through. Demonstration of a heterogeneously integrated III V SOI. Widely Tuneable Laser Diodes SpringerLink. Tunable Laser Diodes and Related Optical Sources Wiley. Fiberoptic Light Sources Laser Diode Laser. Tunable laser Wikipedia. Laser Sources Edmund Optics. OSA Compact solid state organic laser with fine and. Tunable Lasers

---

---

Silicon photonics Laser  
Focus World. Tunable  
Laser Diode 2e Amazon.co.uk  
Buus Amann. OSA  
Demonstration of a  
heterogeneously  
integrated III V.  
Tunable Laser Diodes  
Products and Suppliers  
Engineering360. Narrow  
Spectral Linewidth  
Wavelength Tunable Laser  
Diode. tunable diode  
laser Coherent. IEEE  
20816 7 Tunable Laser  
Diodes and Related  
Optical. Distributed  
Feedback Laser Diodes  
and Optical Tunable  
Filters. Widely Tunable  
Laser Diodes  
SpringerLink. Tunable  
Diode Laser Coherent.  
Tunable Laser Diodes and  
Related Optical Sources  
-By Buus. Tunable Laser  
Diodes and Related  
Optical Sources. Lasers  
Hamamatsu Photonics.

---

---

Laser diode Wikipedia.  
Tunable Laser Diodes  
ScienceDirect. Tunable  
laser diodes and related  
optical sources Jens.  
Fiber Coupled Laser  
Sources NIR Distributed  
Feedback. Tunable Laser  
Diodes and Related  
Optical Sources. Widely  
Tunable Laser Diodes  
ResearchGate. Velocity™  
TLB 6700 Widely Tunable  
Lasers. Oc ppt 38 39 40  
optical sources  
SlideShare. Tunable  
Laser Light Sources  
Advance Nanophotonics  
Research. DTS0090  
Intelligent Tunable  
Laser Diode Source.  
Tunable Laser Diodes and  
Related Optical Sources  
Jens. Laser Diode  
Tuning. OPTICAL SOURCES  
LED AND LASER DIODES.  
TUNABLE SOURCES Tunable  
organic Laser Focus  
World. Tunable Laser

---

---

Diodes and Related Optical Sources Second. Tunable laser diodes and related optical sources eBook. Laser diode definition of laser diode by The Free Dictionary.

Demonstration of a Discretely Tunable III V SOI Sampled. Thorlabs Releases New MEMS?VCSEL Swept?Wavelength Laser. 0471208167 Tunable Laser Diodes and Related Optical. Tunable laser diodes and related optical sources 2d ed. Electronic tuning of integrated blue violet GaN tunable. Tunable laser diodes and related optical sources Book. Tunable Laser Diodes GBV. Tunable Fiber coupled laser diode at QPhotonics. Laser Diode an overview ScienceDirect Topics

---

---

**WAVEGUIDE RING  
RESONATORS TUNABLE LASER  
DIODE**

NOVEMBER 29TH, 2019 -  
GENERATION OPTICAL  
NETWORK SYSTEMS 1-3  
FURTHERMORE VARIOUS  
OPTICAL DEVICES SUCH AS  
COHERENT RECEIVERS AND  
LIGHT SOURCES ARE  
EMERGING FOR THESE  
SYSTEMS 4-7 WE HAVE  
STUDIED WAVE LENGTH  
TUNABLE LASER DIODES LDS  
CONSTRUCTED WITH SI  
PHOTONIC WAVELENGTH  
?LTERS UNDER THE  
ASSUMPTION THAT

THEIR' '~~Dr Jens Buus~~  
**Profile**

~~November 19th, 2019~~  
~~Search The Leading~~  
~~Research In Optics And~~  
~~Photonics Applied~~  
~~Research From SPIE~~  
~~Journals Conference~~  
~~Proceedings And~~  
~~Presentations And~~  
~~EBooks '~~

---

---

**'Tunable Lasers  
Generating Wavelengths  
From The UV Through**

August 2nd, 2009 -

Applications Facilitated  
By Tunable Lasers Can Be  
Divided Into Two Basic  
Categories The First Are  
Situations Where One Or  
More Discrete

Wavelengths Are Not  
Available From Any  
Single Or Multiline

Fixed Wavelength Laser  
Second The Laser

Wavelength Must Be Tuned  
Continuously During The  
Experiment'

~~'**Demonstration of a  
heterogeneously  
integrated III V SOI**~~

~~December 15th, 2019~~

~~Demonstration of a  
heterogeneously~~

~~integrated III V SOI~~

~~single wavelength~~

~~tunable laser Shahram~~

~~Keyvaninia 1 2 Gunther~~

---

---

~~Roelkens 1 2 Dries Van  
Thourhout Buus M C Amamm  
and D Blumenthal Tunable  
Laser Diodes and Related  
Optical Sources 2nd ed  
Wiley IEEE Press 2005'~~

' WIDELY TUNEABLE LASER DIODES  
SPRINGERLINK  
DECEMBER 21ST, 2019 - ABSTRACT THE  
CHAPTER PROVIDES A COMPREHENSIVE  
  
OVERVIEW OVER WIDELY TUNABLE LASER  
  
DIODES AND INCLUDES A DESCRIPTION OF  
  
THE DIFFERENT TUNING MECHANISMS AND

---

---

GRATING AND SUPERSTRUCTURE GRATING  
DBR LASERS Y LASERS MULTIPLE PEAKS  
GRATINGS AND WIDELY TUNABLE FILTER  
LASERS

**'Tunable Laser Diodes  
And Related Optical  
Sources Wiley**

August 10th, 2019 -  
Tunable Laser Diodes And  
Related Optical Sources  
This Text Offers A  
Description Of The  
Optical Sources  
Equipment And Devices  
Designed To Meet These  
Demands Sources For DWDM  
Systems Is Intended For  
The Engineers And  
Graduate Students  
Working On Optical  
Networks'

**'Fiberoptic Light Sources Laser  
Diode Laser**

October 2nd, 2019 - Fiberoptic Light  
Sources Free download as Powerpoint

Presentation ppt PDF File pdf Text

File txt or view presentation slides

---

---

online sources

**' Tunable Laser Wikipedia**

October 30th, 2019 - A Tunable Laser Is A Laser Whose Wavelength Of Operation Can Be Altered In A Controlled Manner While All Laser Gain Media Allow Small Shifts In Output Wavelength Only A Few Types Of Lasers Allow Continuous Tuning Over A Significant Wavelength Range '

**' LASER SOURCES EDMUND OPTICS**

DECEMBER 25TH, 2019 - LASER SOURCES

DIFFER FROM TRADITIONAL ILLUMINATION

SOURCES BECAUSE THEY PRODUCE

COHERENT LIGHT THE ILLUMINATION

---

LINE WIDTHS AS NARROW AS TENS OF  
MEGAHERTZ AND DIVERGENCE AS LOW AS  
FRACTIONS OF MILLIRADIANS ' ' OSA

**Compact solid state  
organic laser with fine  
and**

**November 18th, 2019 - An**

**organic dye doped  
polymer laser with a  
novel wavelength tuning  
mechanism is proposed**

**This device is a  
vertical cavity surface  
emitting laser realized  
by using a couple of  
distributed Bragg  
reflectors DBRs on which  
a dye doped polymer thin  
film and a**

**polydimethylsiloxane  
film are deposited  
individually One of the  
DBRs is**

**electrically ' ' tunable  
lasers silicon photonics  
laser focus world**

**june 30th, 2019 -**

**semiconductor optical  
amplifiers and other on  
and off chip components**

---

---

are being integrated in miniaturized efficient silicon photonics based transceiver devices to enable broadly tunable lasers for communications and other scientific applications cloud computing social networks and emerging 5g'

'tunable laser diode 2e amazon co uk buus amann august 13th, 2019 - tunable laser diodes characterized by their unique ability to tune in to different wavelengths thus significantly improving the efficiency of the switch are rapidly becoming key components for advanced optical communication tunable laser diodes and related optical sources second edition is a much needed

---

---

**single reference  
covering the range** 'OSA  
**Demonstration Of A  
Heterogeneously  
Integrated III V**

February 6th, 2013 -

Demonstration Of A  
Heterogeneously

Integrated III V SOI  
Single Wavelength

Tunable Laser Shahram

And D Blumenthal Tunable  
Laser Diodes And Related  
Optical Sources 2nd Ed

Wiley IEEE Press Tunable  
Laser Diodes And Related  
Optical Sources 2nd Ed  
Wiley IEEE Press 2005'

**'Tunable Laser Diodes  
Products amp Suppliers  
Engineering360**

November 19th, 2019 -

*Find Tunable Laser*

*Diodes related suppliers*

*Technical Books Tunable*

*Laser Diodes and Related*

*Optical Sources Second*

*Edition Measurements*

*were made in 1 600 cm 1*

---

---

*spectral band via a tunable diode laser referencing the optical sensitivity of the studies via a calibration cell with the loss level equivalent to 80 ppb of NO<sub>2</sub>*

**' Narrow Spectral Linewidth**

**Wavelength Tunable Laser Diode**

October 17th, 2019 - Furthermore spectral linewidth narrower than 100kHz was obtained by optimizing the design of the external optical cavity The tunable laser diodes with narrow spectral linewidth are suitable as light sources for digital coherent optical transmission systems 2012 The Japan Society of Applied Physics Compact and low power consumption

wavelength' ' **tunable diode laser**

**Coherent**

December 21st, 2019 - Self Aligned

Non Dispersive External Cavity

Tunable Laser pdf 785 nm The tunable

ECL concept is also experimentally

---

tested with high power broad area laser diodes near 780 nm The passive alignment feature of the cavity is expected to reduce the assembly cost of tunable ECLs ©2008 Optical Society of America OCIS codes 140.2020 Diode ' ' **IEEE 20816 7**

**TUNABLE LASER DIODES AND RELATED OPTICAL**

DECEMBER 1ST, 2019 -  
IEEE 20816 7 TUNABLE LASER DIODES AND RELATED OPTICAL SOURCES 2ND EDITION DESCRIPTION OF OPTICAL SOURCES EQUIPMENT AND DEVICES DESIGNED TO MEET DEMANDS COVERS TUNABLE LASERS THE NEXT BIG THING IN DWDM'

**'Distributed Feedback Laser Diodes and Optical Tunable Filters**

November 5th, 2017 -  
Advances in optical fibre based communications systems have played a crucial role in the development of the information

---

---

highway By offering a single mode oscillation and narrow spectral output distributed feedback DFB semiconductor laser diodes offer excellent optical light sources as well as'

**'Widely Tunable Laser Diodes SpringerLink**

December 23rd, 2019 - The Chapter Provides A Comprehensive Overview Over Widely Tunable Laser Diodes And Includes A Description Of The Different Tuning Mechanisms And Relevant Implementations M C Amann D J Blumenthal Tunable Laser Diodes And Related Optical Sources 2nd Edn Wiley Hoboken 2005 ISBN 13 978 0 471 20816 7 CrossRef Google Scholar 2'

**'Tunable Diode Laser**

---

---

## **Coherent**

November 10th, 2019 -  
Tunable Diode Laser  
Found In Lasers  
Photonics Handbook®  
Prometheus Mephisto  
Lasers Compact Single  
Mode Tunable Laser Using  
A Digital Micromirror'

### **'Tunable Laser Diodes and Related Optical Sources -By Buus**

December 1st, 2019 -  
Tunable narrow line  
width silicon micro ring  
laser source for  
coherent optical  
communications CLEO pdf  
A potential tunable  
yellow to white emitting  
phosphor for ultraviolet  
light emitting diodes  
pdf 2002 High efficiency  
organic light emitting  
diodes with tunable  
light emission by using  
aromatic diamine 5 6 11  
12

---

---

tetraphenyl naphthalene  
multiple quantum wells  
pdf

**Tunable Laser  
Diodes and Related  
Optical Sources**

November 27th, 2019 - An  
essential introduction  
to the powerful new  
developments in  
optoelectronics Tunable  
laser diodes  
characterized by their  
unique ability to tune  
in to different  
wavelengths thus  
significantly improving  
the efficiency of the  
switch are rapidly  
becoming key components  
for advanced optical  
communication Tunable  
Laser Diodes and  
Related' '**LASERS**

**HAMAMATSU PHOTONICS**

*DECEMBER 23RD, 2019 -  
LASER DRIVEN TUNABLE  
LIGHT SOURCES PHOTONIC  
CRYSTAL SURFACE EMITTING  
LASER DIODES PCSEL FIBER*

---

---

*OUTPUT LASER DIODES  
QUANTUM CASCADE LASERS  
QCLS MAY COMPOSE REPORTS  
REGARDING THE WEBSITE'S  
ACTIVITY FOR US AND MAY  
PROVIDE FURTHER SERVICES  
WHICH ARE RELATED TO THE  
USE OF THE WEBSITE AND  
THE INTERNET'*

**'LASER DIODE WIKIPEDIA**  
DECEMBER 20TH, 2019 -  
ELECTRICAL AND OPTICAL  
PUMPING LASER DIODES  
FORM A SUBSET OF THE  
LARGER CLASSIFICATION OF  
SEMICONDUCTOR P N  
JUNCTION DIODES FORWARD  
ELECTRICAL BIAS ACROSS  
THE LASER DIODE CAUSES  
THE TWO SPECIES OF  
CHARGE CARRIER - HOLES  
AND ELECTRONS - TO BE  
INJECTED FROM OPPOSITE  
SIDES OF THE P N  
JUNCTION INTO THE  
DEPLETION'

**'tunable laser diodes  
sciencedirect**  
november 30th, 2019 -

---

---

the three principal functions in a tunable laser are providing optical gain chapter 4 tunable laser diodes gert sarlet orkanvdgen 35 the weight of a certain layer s refractive index is related to the fraction of the optical power of the waveguide mode that is confined within this layer'

**'Tunable laser diodes and related optical sources Jens**

*December 19th, 2019 - Tunable laser diodes and related optical sources Jens Buus Markus Christian Amann Daniel J Blumenthal'*

**~~'FIBER COUPLED LASER SOURCES NIR DISTRIBUTED FEEDBACK~~**

~~DECEMBER 21ST, 2019 — THESE FIBER COUPLED LASER SOURCES FEATURE A~~

---

---

~~NARROW LINEWIDTH DFB  
LASER DIODE AND A 40 DB  
OPTICAL ISOLATOR TO  
ELIMINATE BACK  
REFLECTIONS AND  
FREQUENCY JITTER THE  
S3FC SERIES INCORPORATES  
AN INTEGRATED  
TEMPERATURE CONTROL  
SYSTEM FOR INCREASED  
WAVELENGTH AND POWER  
STABILITY THE DIODE  
TEMPERATURE AND~~

~~' **Tunable Laser Diodes  
and Related Optical  
Sources**~~

~~October 26th, 2019~~

~~This technology places  
special demands on the  
optical sources lasers  
used in the system This  
text offers a  
description of the  
optical sources  
equipment and devices  
designed to meet these  
demands Sources for DWDM  
Systems is intended for  
the engineers and~~

---

---

~~graduate students  
working on optical  
networks~~ 'Widely Tunable

**Laser Diodes**

**ResearchGate**

December 5th, 2019 - An

essential introduction

to the powerful new

developments in

optoelectronics Tunable

laser diodes

characterized by their

unique ability to tune

in to different

wavelengths thus

significantly improving

the efficiency of the

switch are rapidly

becoming key components

for advanced optical

communication Tunable

Laser Diodes and

Related'

'~~Velocity™ TLB 6700~~

**~~Widely Tunable Lasers~~**

~~December 22nd, 2019~~

~~The New Focus™ tunable~~

~~external cavity diodes~~

~~lasers lead the market~~

---

---

~~with high performance  
delivering true  
continuous mode hop free  
tuning over wide  
wavelength ranges The  
Velocity TLB 6700 is our  
premier tunable diode  
laser system offering  
both wide and fine  
wavelength scanning'~~

**'Oc Ppt 38 39 40 Optical  
Sources SlideShare**

*December 24th, 2019 - Oc*

*Ppt 38 39 40 Optical*

*Sources 1 Optical*

*Sources LED Amp LASER By*

*• Incoherent Light*

*Sources Used In*

*Multimode Systems As*

*Where Laser Diodes*

*Tunable Lasers In Single*

*Mode Systems • Laser*

*Diodes Must Operate*

*Above Their Threshold*

*Region To Produce*

*Coherent Light' '**Tunable***

**~~Laser Light Sources~~**

**~~Advance Nanophotonics~~**

---

## **Research**

~~September 27th, 2017~~  
~~Tunable Laser Light~~  
~~Sources Advance~~  
~~Nanophotonics Research~~  
~~Optical Parametric~~  
~~Oscillator OPO~~ A laser  
~~pumped crystal with~~  
~~nonlinear optical~~  
~~properties inside of an~~  
~~optical resonator in~~  
~~which the output~~  
~~generates FP distributed~~  
~~feedback DFB and~~  
~~distributed Bragg~~  
~~reflector DBR laser~~  
~~diodes SM individually~~  
~~addressable and~~ **'DTS0090**  
**Intelligent Tunable**  
**Laser Diode Source**

December 15th, 2019 -  
Wavelength Of Most Laser  
Diodes Is Dependent On  
The Current Through The  
Laser The Intelligent  
Tunable Laser Diode  
Source TL 100 X W R P L  
Ordering Examples For  
Custom Parts Most

---

---

*Optical Sources Are  
Calibrated At One  
Specific Temperature'*

'tunable laser diodes  
and related optical  
sources jens  
september 15th, 2019 -  
tunable laser diodes and  
related optical sources  
jens buus markus  
christian amann daniel j  
blumenthal on amazon com  
free shipping on  
qualifying offers the  
phenomenal growth in  
internet traffic has  
lead to a huge increase  
in demand for data  
transmission capacity on  
a worldwide level as a  
result'

'LASER DIODE TUNING  
DECEMBER 12TH, 2019 - AN  
IMPORTANT SPECIFICATION  
FOR LASER DIODE'S USED  
IN TUNABLE DIODE LASER  
ABSORPTION SPECTROSCOPY

---

TDLAS IS THE LASER S  
TUNING COEFFICIENT THIS  
IS SPECIFIED ON THE DATA  
SHEET AS PICOMETERS OF  
CHANGE PER MILLIAMP OF  
CHANGE IN THE BIAS  
CURRENT AND NANOMETERS  
OF CHANGE PER CHANGE IN  
DEGREES CELSIUS '

'OPTICAL SOURCES LED AND  
LASER DIODES

December 26th, 2019 -  
Optical Sources - LED  
And Laser Diodes LED  
STRUCTURE - They Can Be  
Seen Glowing Green  
Yellow Or Red In  
Vehicles Telephones  
Cameras - They Are  
Inexpensive And Highly  
Reliable Light Sources -  
The LED Used In Optical  
Communications Are Much  
Smaller And Emit In The  
Infrared Region  
MATERIALS '

, TUNABLE SOURCES Tunable organic

---

---

**Laser Focus World**

October 20th, 2011 - TUNABLE SOURCES

Tunable organic semiconductor lasers

Ready for the market Recent advances

in DFB organic semiconductor lasers

---

---

and taken advantage of emission  
efficiency and superior stability to

target applications for optical

transmission spectroscopy and laser

induced fluorescence ,

**'TUNABLE LASER DIODES  
AND RELATED OPTICAL  
SOURCES SECOND  
MARCH 5TH, 2010 - A  
WAVELENGTH TUNABLE LASER  
DIODE IS A WAVELENGTH  
SPECIFIC DEVICE  
CHARACTERIZED BY ITS  
WAVELENGTH TUNABILITY  
THAT IS EXPECTED TO BE A**

---

KEY DEVICE FOR ADVANCED  
OPTICAL COMMUNICATION AS  
WELL AS FOR A VARIETY OF  
OPTICAL MEASUREMENTS THE  
FIRST EDITION OF THIS  
BOOK WAS WRITTEN BY TWO  
EXPERTS IN THE '

' tunable laser diodes and related  
optical sources ebook

november 26th, 2019 - get this from  
a library tunable laser diodes and  
related optical sources jens buus  
markus christian amann daniel j  
blumenthal the phenomenal growth in  
internet traffic has lead to a huge  
increase in demand for data  
transmission capacity on a worldwide  
level as a result wavelength  
division multiplexing wdm

technology' '**Laser diode  
definition of laser  
diode by The Free  
Dictionary**

December 11th, 2019 -  
Define laser diode laser  
diode synonyms Tunable  
laser diodes and related  
optical sources 2d ed  
Tunable laser diodes and  
related optical sources  
2d ed Powered by Zarlink  
s laser diode drivers

---

*DVD CD recorder units  
are able to write a 4 7  
Gigabyte DVD disc'*

**'Demonstration of a  
Discretely Tunable III V  
SOI Sampled**

**November 13th, 2019 -**

**Demonstration of a  
Discretely Tunable III V  
SOI Sampled Grating**

**Distributed Feedback**

**Laser Soren Dhoore**

**Front Lianyan Li Amin**

**Abbasi Gunther Roelkens**

**and Geert Morthier**

**Tunable laser diodes and  
related optical sources**

**Wiley Interscience New**

**York, 2005 8', 'THORLABS RELEASES  
NEW MEMS?VCSEL SWEPT?WAVELENGTH  
LASER**

**DECEMBER 12TH, 2019 - THORLABS**

**ANNOUNCED TODAY THAT IT HAS RELEASED**

**NEXT?GENERATION VERSIONS OF ITS 1300**

---

NM MEMS?VCSEL SWEPT?WAVELENGTH LASER  
SOURCES WITH A RECORD?BREAKING  
COHERENCE LENGTH OF OVER 100 MM AND  
SWEEP RATES OF EITHER 100 KHZ OR 200  
KHZ THE SL131090 AND SL132120 ARE  
THE ONLY COMMERCIALY AVAILABLE  
MEMS?VCSEL LASER SOURCES ON THE  
MARKET , ,

**0471208167 Tunable Laser  
Diodes and Related Optical**

December 21st, 2019 - Tunable Laser

Diodes and Related Optical Sources

Hardback by Jens Buus Markus

Christian Amann Daniel J Blumenthal

and a great selection of related

**'tunable laser diodes  
and related optical  
sources 2d ed**

november 19th, 2019 -  
free online library  
tunable laser diodes and  
related optical sources  
2d ed engineering  
general civil brief  
article book review by  
scitech book news  
publishing industry  
library and information  
science science and  
technology general books  
book reviews'

**'Electronic Tuning Of  
Integrated Blue Violet  
GaN Tunable**

November 6th, 2019 - J  
Buus M C Amann And D J  
Blumenthal Tunable Laser  
Diodes And Related  
Optical Sources 2nd Ed  
John Wiley Amp Sons 2005  
P 89 If Resonances In

---

One Of The Cavities Is Shifted More Than Spacing Between The Resonances In Another Cavity The Jump In Tuning Will Happen Fig 5 A And Cycle Repeat Itself Slightly Shifting In Wavelength'

'Tunable laser diodes and related optical sources Book December 10th, 2019 - Designed for engineers developing tunable laser for optical networks as well as graduate students enrolled in the optical engineering curriculum Tunable Laser Diodes and Related Optical Sources Second Edition promises to be the definitive resource on optoelectronics technology Jacket'

'Tunable Laser Diodes GBV December 10th, 2019 - 7 Widely Tunable Laser

---

---

Diodes 159 7 1 The  
Vernier Effect 159 7 8  
Summary Of Widely  
Tunable Laser Results  
201 8 Related Components  
207 8 2 Diode Laser  
Arrays And  
Multiwavelength Sources  
211 Contents Vii 8 2 1  
Simple Diode Laser  
Arrays 211 8 2 2 Arrays  
Integrated With  
Combiners 212 8 2 3  
Multistribe Grating  
Cavities 213'' **Tunable  
Fiber Coupled Laser  
Diode At QPhotonics  
December 23rd, 2019 -  
Fiber Coupled Wavelength  
Stabilized FBG And DFB  
Laser Diodes At 980 Nm  
1064 Nm 1300 Nm 1480 Nm  
And 1550 Nm With Power  
Up To 150mW In 14 Pin  
DIL Package And 14 Pin  
Butterfly Package Home  
Fiber Coupled Laser  
Diodes Wavelength  
Stabilized Laser Diodes**

---

---

Tunable FBG Stabilized  
Laser Diode 5mW 1550nm  
QTFBGLD 1550 10'

*'Laser Diode an overview  
ScienceDirect Topics*

*December 22nd, 2019 -  
Experimental methods -  
applications of tunable  
diode laser absorption  
spectroscopy TDLAS  
Tunable diode lasers  
TDLs are semiconductor  
devices typically GaAs  
which are essentially  
light emitting diodes  
constructed with an  
optical resonator Lasing  
is achieved by  
delivering a small  
current to the  
photodiode'*

Copyright Code :  
[fNUKRGxmCBLQsdl](#)