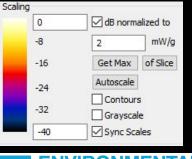
Radiofrequency Exposure at Eye Plane of 6 Year Old Child Smartphone Placed In Cardboard Simulation Position

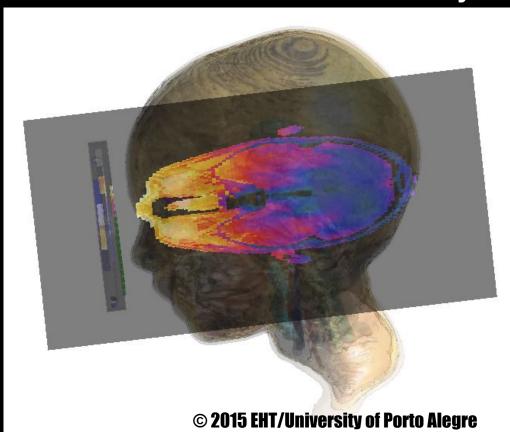


40dB color Scale.
Smartphone placed in a position to the eyes as it would be placed using the cardboard virtual reality holder.



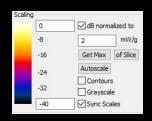


Dose (SAR) in an Horizontal (axial) Slice at the Eyes 6 Year Old Boy Model



1g-psSAR = 1.08 W/kg over the entire head 1g-psSAR = 0.86 W/kg in the eyes

White and yellow are the highest doses. Smartphone Placed In Cardboard Simulation Position

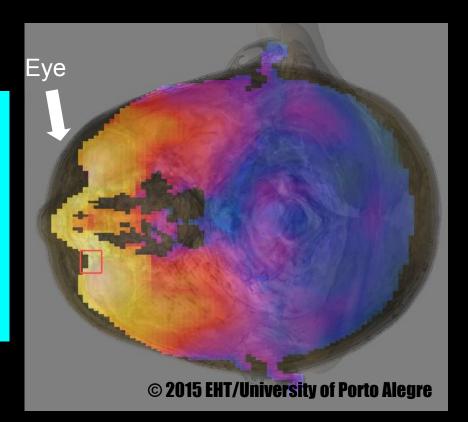




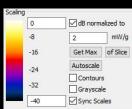
Radiofrequency Dose into Eyes of 6 Year Old Child Model Smartphone Placed In Cardboard Simulation Position

Smartphone





1g-psSAR (peak value axial slice) in Thelonious (6 year old male) anatomically correct model, 0dB=2mW/g, 40 db scale. for smartphone placed in a position to the eyes as it would be placed using the cardboard virtual reality holder.

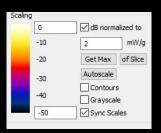




Radiofrequency Dose into Eyes of 6 Year Old Child Model Smartphone Placed In Cardboard Simulation Position

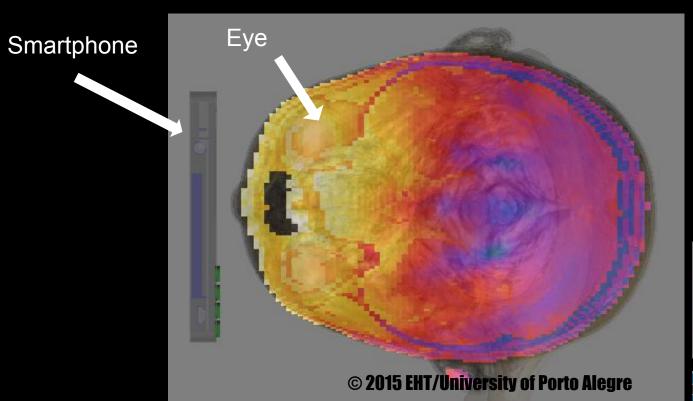
Smartphone Eye © 2015 EHT/University of Porto Alegre

1g-psSAR (peak value axial slice) in Thelonious (6 year old male) anatomically correct model, 0dB=2mW/g, 50 db scale. for smartphone placed in a position to the eyes as it would be placed using the cardboard virtual reality holder.

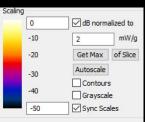




Radiofrequency Exposure at Forehead Slice of 6 Year Old Child Smartphone Placed In Cardboard Simulation Position

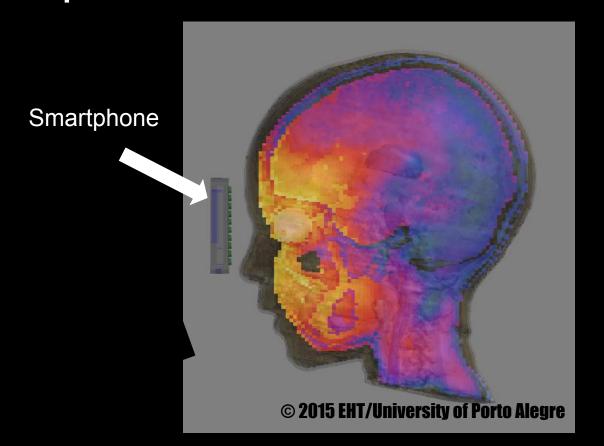


1g-psSAR (peak value axial slice) in Thelonious (6 year old male) anatomically correct model. 50 db scale. for smartphone placed in a position to the eyes as it would be placed using the cardboard virtual reality holder.

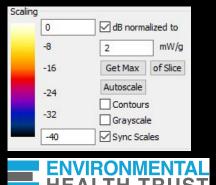




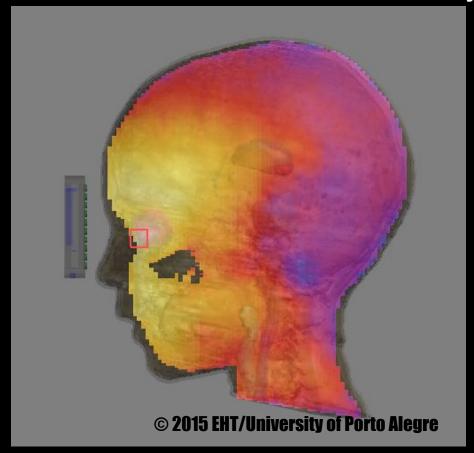
Radiofrequency Exposure at Mid Head Plane of 6 Year Old Smartphone Placed In Cardboard Simulation Position



40dB color Scale.
Smartphone placed in a position to the eyes as it would be placed using the cardboard virtual reality holder.



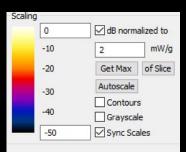
Exposure (SAR) in Vertical (sagittal) Slice at the Eye 6 Year Old Boy Model



1g-psSAR = 1.08 W/kg over the entire head and 1g-psSAR = 0.86 W/kg in the eyes.

The red cube is the location of the peak dose.

50 dB scale. White and yellow are the highest doses.



Smartphone Placed In Cardboard Simulation Position



Dielectric Properties of the Three Models - SAM, Duke and Thelonius.

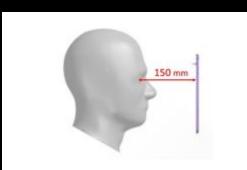
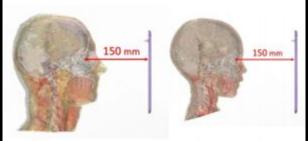


Fig 3. SAM phantom (homogeneous model) with Tablet.

TABLE III. Dielectric Properties of the SAM Phantom following the IEEE 1528 Recommended Practice @ 2.45 GHz

Material	σ [S/m]	Er
SAM shell	0.0016	5
SAM liquid	1.8	39.2

Homogenous liquid inside skull does not realistically represent brain and skull.



(a) 34 years old adult man (DUKE) (b) 6 years old child (THELONIOUS)

TABLE IV. Dielectric Properties of the Heterogeneous Models Tissues @ 2.45 GHz.

Tissue	Er	σ [S/m]
Fat	0.104	5.280
Bone	0.394	11.381
Grey matter	1.807	48.911
White matter	1.215	36.167
Liquid Brain	66.243	3.457
Muscle	52.729	1.738
Aqueous Humor	68.208	2.478
Skin	38.007	1.464
Crystalline	44.625	1.504
Sclera	52.628	2.033
Vitreous Humor	68.208	2.478
Cerebellum	30.145	1.088
Nerve	30.145	1.088

With Anatomical Models
Different Properties of
Different Body Tissues are
considered.



Ferreira and de Salles, 2015



ASUS Zen Phone 2



RF Exposure Information (SAR)

To reduce exposure to RF energy, use a hands-free accessory or other similar option to keep this device away from your head and body.

Carry this device at least 10 mm away from your body to ensure exposure levels remain at or below the as-tested levels. Choose the belt clips, holsters, or other similar body-worn accessories which do not contain metallic components to support operation in this manner. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified, and use of such accessories should be avoided.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.



Children Are Wearing Metal Glasses Despite Warnings That Metal so Close to Brain and Phone Could Intensify Radiation



The ASUS Zen Phone 2 Manual states: Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified, and use of such accessories should be avoided.

http://dlcdnet.asus.com/pub/ASUS/ZenFone/ZE550MI/e10509_ze550ml_ge10501.pdf



Information Provided to Schools by Google

GOOGLE CARDBOARD

PRODUCT SAFETY INFORMATION

- Take frequent breaks while using Cardboard. If you experience nausea, discomfort, eye strain, or disorientation, immediately discontinue using Cardboard.
- Cardboard is not for use by children without adult supervision.
- Do not use Cardboard while driving, walking, or otherwise by being distracted from real world situations that prevent you from obeying traffic or safety laws. Do not drive or operate heavy machinery immediately after using Cardboard if you feel impaired or disoriented.
- If you have had or could be prone to seizures, consult a doctor before using Cardboard.

Where is the information on young children and on the phone near the eyes?



Kellogg's Virtual Reality Offer



Download the free Kellogg's* Marvel's Captain America: Civil War VR app and buy any three participating Cheez-It*, Keebler*, Kellogg's* or Pringles* products.

O 2016 MARVEL

Viewers appropriate for ages 8 and up. I



e.org/web/20160419074312/https://www.kelloggsfamilyrewards.com/en_US/promotions/captain-america-civil-war-promotion.html https://web.archiv

























Viewer Details

Collect both characters! Limit two viewers per household, available while supplies last.

Viewers appropriate for ages 8 and up. For tips on how to put your viewer together, watch this video or click here for a PDF.



Captain America Virtual Reality Viewer

Willing to fight for what you believe in? Then this viewer is for you.

3 Credits



Iron Man Virtual Reality Viewer
Experience the action like never
before with this viewer.

3 Credits

Viewers appropriate for ages 8 and up.

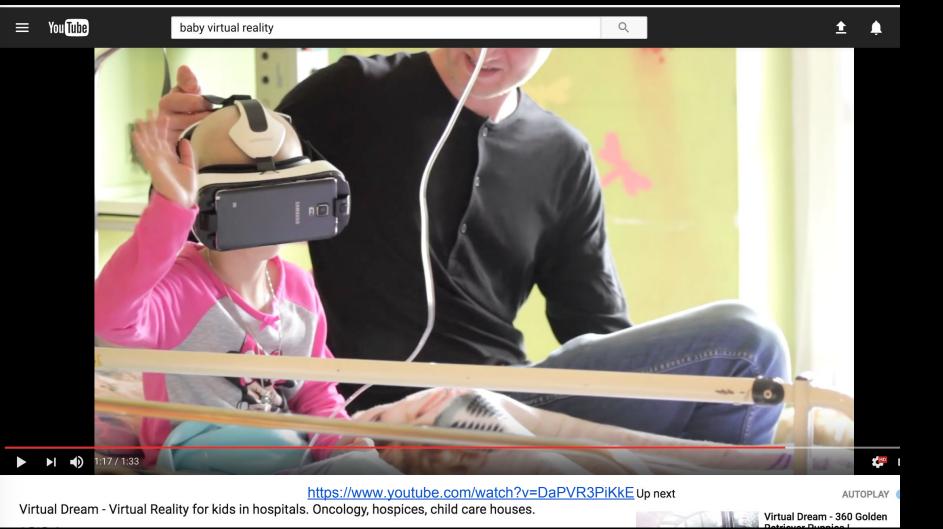
Measures 3.5" x 7". Small parts not intended for children under 3. Viewers appropriate for ages 8 and up. Limit two viewers per household. While supplies last. Open to legal residents of the fifty (50) United States and District of Columbia who are 13 years of age or older and are registered members of *Kellogg's Family Rewards*[®]. Purchases must be made 3/8/16–9/30/16. Receipts must be uploaded or texted within 30 days of purchase. Must redeem by 10/31/16.

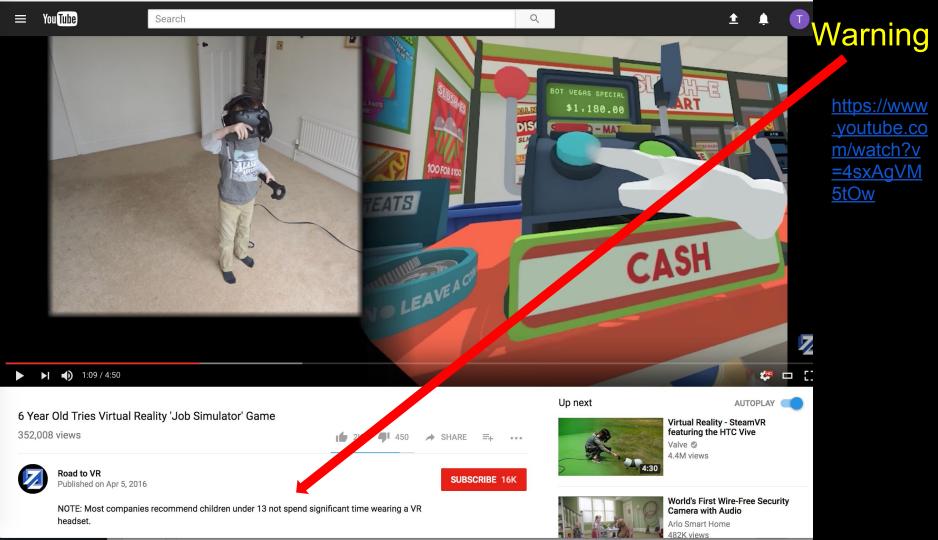


Youtube Has Many Videos of Young Children Using Virtual Reality









Virtual Reality Systems

Manufacturer Recommendations

Health and Safety Information SAMSUNG GEAR VR

Seizures

Some people (about 1 in 4000) may have severe dizziness, seizures, epileptic seizures or blackouts triggered by light flashes or patterns, and this may occur while they are watching TV, playing video games or experiencing virtual reality, even if they have never had a seizure or blackout before or have no history of seizures or epilepsy. Such seizures are more common in children and young people under the age of 20. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition should consult with a doctor before using the Gear VR.

The Gear VR headset should not be used by children under the age of 13, as these children may be at increased health and safety risk.

A comfortable virtual reality experience requires an unimpaired sense of motion and balance. Do not
use the Gear VR when you are tired, need sleep, are under the influence of alcohol or drugs, are hungover, have digestive problems, are under emotional stress or anxiety, or when suffering from cold, flu,
headaches, migraines, or earaches, as this can increase your susceptibility to adverse symptoms.







TODDLER'S FIRST VIRTUAL REALITY VR EXPERIENCE!

https://www.youtube.com/watch?v=jDBTr1WxdLo

Up next

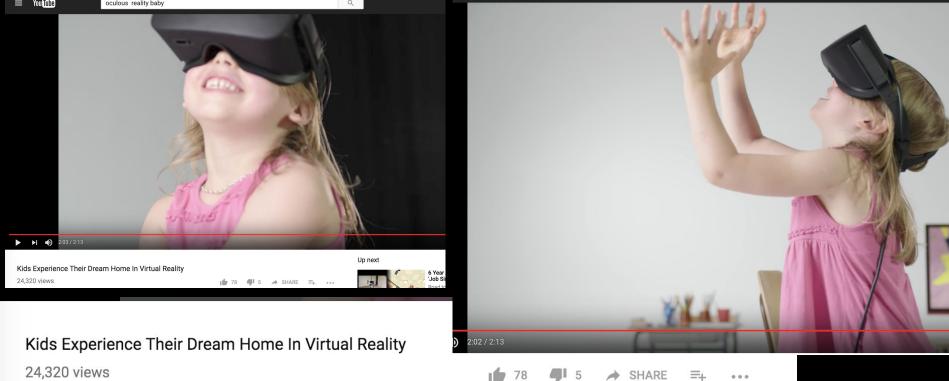


OCULUS Virtual Reality

Health and Safety Brochure

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Children: The Gear VR should not be used by children under the age of 13. Adults should monitor children (age 13 and older) who are using or have used the Gear VR for any of the symptoms described below, and should limit the time children spend







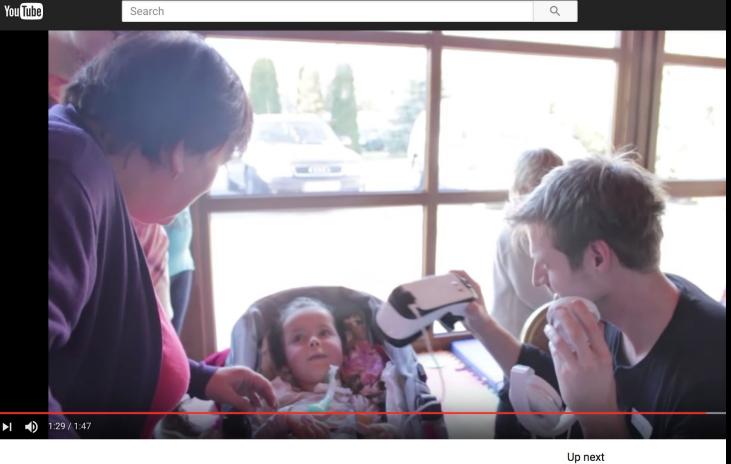
Bandara

Published on Aug 18, 2016

SUBSCRIBE 84

Together with news platform «20 Minuten», we asked children to draw their dream house. The three most creative drawings were recreated in 3D and brought to life on an Oculus VR headset. This video shows how the kids reacted when their dream came alive in virtual reality.

https://www.yout ube.com/watch?v =W5B9DUluUYY



Virtual Dream - Hospicjum Wrocławskie Happy Horse - Mikołajki

Virtual D

https://www.youtube.com/watch?v=B_MpeGnh4tl

Gotan: Virtual Reality

Health and Safety Brochure



Seizures:

Some people (about 1 in 4000) may have severe dizziness, seizures, epileptic seizures or blackouts triggered by light flashes or patterns, and this may occur while they are watching TV, playing video games or experiencing virtual reality, even if they have never had a seizure or blackout before or have no history of seizures or epilepsy. Such seizures are more common in children and young people under the age of 20. Anyone who has had a seizure, loss of awareness, or other symptom linked to an epileptic condition should see a doctor before using the headset.



Children:

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