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Scientists assume LED implants may be useful in some types of neuroscience studies or may even be applied to different organs by manipulating neural circuits that are involved in social behaviors, which helps better understand what goes on in the brain in disorders such as depression and anxiety.

In addition to line power, there is a new technology for water purification being developed based on UV-LED. According to EuroNews, a European, multilingual news television channel to be covering world news, the water purification device is the work of a research program that integrates two main ingredients of titanium dioxide (TiO2) and UV-LED. When users load the glass spheres into a little housing, then use the LED and shine UV radiation onto the titanium dioxide coating. The water passes from the fish tank to the reactor, traveling round the spiral over the coated titanium dioxide beads and back through the pump in the fish tank.

The researchers admit that the method might be too expensive for businesses at the moment, but eventually an effective way of getting rid of low concentrations of pollutants because UV irradiated TiO2 is more powerful than chlorine. When bacteria travels to the surface of the catalyst they are killed by photocatalysis. A reactor would preserve the environmental balance in aquariums.

Furthermore, when the photocatalytic oxidation absorbs ultraviolet rays from UV-LED, it is able to use the principle similar to the plant's photosynthesis, but it sterilizes, restrains the bacterium, and deodorizes more effectively. This is where the invention of the sterilization trash-can comes from. It uses the 110V AC (alternating current) and then transformer, using 6V DC (direct current) to control infrared radiation to raise the cover of the system. After some garbage is thrown in, the time-controlling UV-LED turns on at the same time, and it brings the automatic deodorization and sterilization to work.

The fast-growing aesthetic medicine industry has also paved the way for LED technology over the past years. Currently it is routinely offered in clinics as treatment for both skin rejuvenation, using red, infra-red and yellow colored light and for acne using blue LEDs. Also, the use of LED technology is often targeted as an alternative treatment to laser and IPL devices for reducing wrinkles, sun damage and acne, or as a combination treatment. Unlike laser, LEDs work non-thermally so they do not destroy or injure tissue. Due to this there appear to be very few significant side effects from using LEDs, apart from in those individuals with known photosensitivity and epilepsy porphyria.

Commonly LEDs with wavelengths of infra-red, red, yellow and blue are used in aesthetic medicine and claim to activate the relevant absorption spectrum within biological systems to produce a number of photobiological responses, including stimulating the production of collagen or destroying acne-causing bacteria. For example, studies have shown that red light therapy can stimulate collagen precursors and enzymes associated with skin cell remodeling and blue light can target the natural chemicals called porphyrins which are produced by acne-causing bacteria known as propionibacterium acnes or P.acnes. The porphyrins are sensitive to light and if stimulated with blue light will neutralize and eradicate the bacteria, thus reducing and eliminating the inflammation of acne.

Some clinicians also combine the use of LED technologies with existing ablative, non-ablative and fractional laser treatments where a more aggressive application is required to treat the skin damage. In such cases the LEDs can be used post-laser treatment to reduce redness, swelling and promote quicker healing of the treated skin, which dramatically reduces the downtime of the patient, something which more and more people are concerned about given work and family commitments. 🙄

Table 1. OLED and small-size panels

	China	Japan	Korean	Taiwan	Global
Oxide TFT	0%	8%	0%	0%	1%
LTPS	0%	4%	8%	2%	1%
a-Si	100%	44%	70%	91.5%	77%
AMOLED	0%	0%	22%	0.2%	0%

Table 2. Comparison between different display technologies

Panel	PPI	Size	Power consumption	Cost	Application
a-Si	Current 250 moving to 300	~10"	High	Low	1 Mid-entry Smartphone 2 Mid-entry tablet 3 Notebook 4 Monitor 5 TV
LTPS	Current 300 moving to 400	~10"	Low	High	High-end smartphone
Oxide	Current 250 moving to 300	7" ~ 65"	Medium	Medium	1 High-end tablet 2 High-end TV
AMOLED	Current 250 moving to 300	~4" ~ 55"	Medium	High	1 High-end smartphone 2 High-end TV

Table 3. OLED backlight technologies

	a-Si	LTPS	Oxide
Mobility	Low	High	Medium
Uniformity	High	Low	Medium
Application size	>100"	~40"	>100"
Mask Quantity	5	5	5
Cost	Low	High	Medium
Application Technology	LCD	LCD	LCD
		OLED	OLED

Table 4. OLED penetration rate

	2012	2013	2014	2015
Smartphone	21.87%	22.54%	27.22%	31.83%
Tablet PC	0.82%	0.76%	1.06%	2.92%
Notebook PC	0%	0%	0.11%	0.28%
Monitor	0%	0%	0%	0.27%
TV	0%	0.29%	0.88%	1.15%

cost trend of the tablet market hinders the adoption rate of OLED displays. The penetration rate of tablet PCs is thought to be less than 5 percent by 2015. As for monitors and notebook PC applications, the multimedia and gaming applications or those robust-demand industrial applications. We can see a trend that AMOLED displays are seen in the monitor and target 3C devices, wearing smartphones and TVs, these three to five years.

A research firm IHS iSuppli indicated that the AMOLED TV display is seen as an emerging application though the shipments will be limited in three years due to high prices caused by manufacturing challenges and expensive materials. The statistics from IHS iSuppli shows a prominent growth in the TV display sector since 2012 to 2015 in both shipment value and volume. The shipment

value is less than US\$200 million in 2013 still, and the figure is forecasted to be close to US\$750 million in 2015. The shipment volume is anticipated to be less than 500,000 units in 2013, and the number is predicted to surpass 2 million units in 2015.

Dual technological solutions for AMOLED

In Taiwan, there are two AMOLED choices, including RGB and White OLED (WOLED) with color filter designs. The high power consumption of color filter can be a major disadvantage for WOLED besides complex manufacturing process. However, the RGB technology is controlled by SDC in terms of patents and market share. Hence, it may be an easier way to develop WOLED technology.

Setup - K-Lite Codec Pack

Installation Mode

Please select the desired installation mode

- Simple
- Normal
- Advanced
- Expert



The modes differ in the amount of options shown during installation. Recommended defaults are used for all options that are skipped!!!

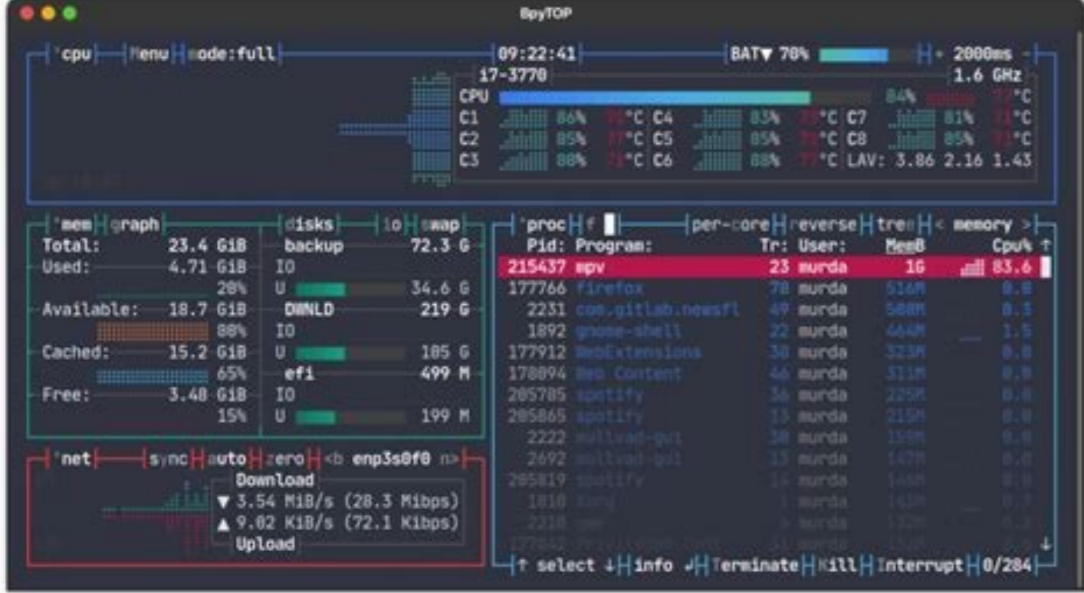
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- NORMAL:**
+ (3) Hardware acceleration (4) MPC-HC settings (5) Audio settings
- ADVANCED:**
+ (6) Components list (7) Tasks list (8) File associations
- EXPERT:**
+ (9) Install location (10) Thumbnails



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