

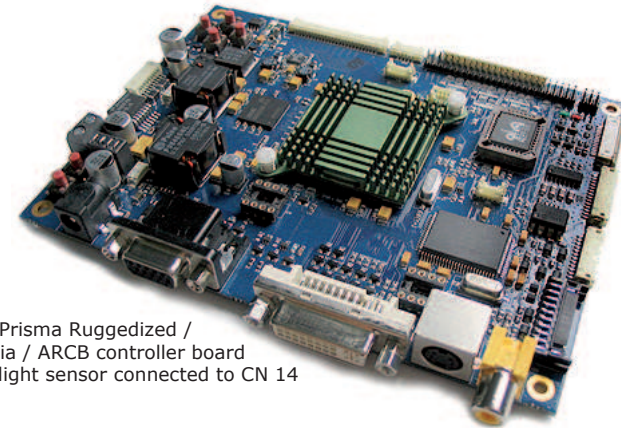
# Potential cost savings with Ambient Light Sensor for Prisma and ARCB Boards

Start saving on energy costs today by ordering your Prisma or ARCB controller board with our all new **Ambient Light Sensor!**

How it works:

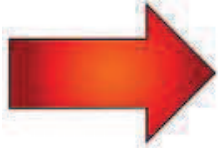


Over 50% of each year is spent in suboptimal ambient lighting conditions (darkness, overcast or rainy weather).



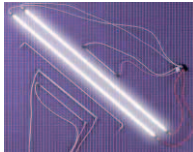
Prisma II / Prisma Ruggedized /  
Prisma Media / ARCB controller board  
+ Ambient light sensor connected to CN 14  
+ Software

The ambient light sensor will automatically adjust the CCFL tubes to the luminance necessary for a perfect picture. An intelligent algorithm guarantees a smooth and continuous regulation of the display's backlight, meaning that you will not notice the adjustment of the brightness, because the relation of the panel's brightness to the ambient lighting conditions remains the same. Of course this algorithm is customizable for projects!



## Your benefits:

### green IT



- Lower power consumption is environmentally sound
- Energy costs are reduced
- A consistently ideal luminance setting is much easier on the eyes. Constantly adjusting the brightness on a display can cause eyestrain and may lead to more serious eye problems over time.
- enhancement of CCFL-lifetime

Potential cost savings (Prisma Ambient Light Sensor & intelligent SW-Algorithm used in conjunction with Samsung DID panels)



Samsung DID panel	average power consumption p.a. (kwh)			average energy costs p.a. (0.15 USD per kwh) (4)		annual cost savings with Prisma ALS, assuming 50% non-sunshine conditions (clouds, darkness, fog etc.)	price for adding Ambient Light Sensor to Prisma board	approx. payback period (months)
	with ALS (1)	without ALS (2)	highest possible (3)	with ALS	without ALS			
LTI320AA02	452	721	902	\$67,80	\$108,15	\$40,35	\$20	6
LTI400HA01 / -HA03	1000	1490	2234	\$150,00	\$223,50	\$73,50	\$40	6
LTI460HA01 / -HA03 (Black Bezel)	1310	2100	2596	\$196,50	\$315,00	\$118,50	\$60	6
LTI460AA03-001 (BB, 1500cd)	1730	2660	3857	\$259,50	\$399,00	\$139,50	\$70	6
LTI520HB01-001	1550	2640	3315	\$232,50	\$396,00	\$163,50	\$85	6
LTI700HD01-001	4610	5860	9631	\$691,50	\$879,00	\$187,50	\$95	6
LTI700HD02 (2000cd)	10248	12947	15155	\$1.537,20	\$1.942,05	\$404,85	\$200	6
LTI820HT-L01	5210	7410	9644	\$781,50	\$1.111,50	\$330,00	\$170	6

- (1) avg. consumption per year
- (2) typical values measured in lab
- (3) according to max. values of Samsung spec.
- (4) average price per kwh on US East Coast



DATA DISPLAY GROUP

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