



Feel good, learn better with SchoolVision

What could it do for your pupils?

PHILIPS
sense and simplicity





The learning environment in school plays an important part in the well-being of pupils and their potential for learning. Some children find learning easy, other may have poor concentration. Some will be naturally quiet, others more active. But all will have tasks they prefer and others they find more difficult. To create the very best learning environment teachers must manage those moods and energy levels throughout the day to engage the children, steer the class and make sure everyone gets the most out of the school day.

Normal

What: Standard intensity level, standard colour tone

When: Normal class lesson



Energy

What: Higher intensity level, very cool colour tone

When: Supports a fresh start of the day (morning) or afternoon (after lunch)



Light and learning

Creating a learning environment in which you and your pupils can excel will help you to achieve better results. Teaching methods and learning resources are just some of the tools you can use to create interest, but lighting can also have a positive effect. By bringing the dynamics of daylight into the classroom with SchoolVision you can help to stimulate and engage pupils.

Think about the wide variety of activities that you and the children participate in from focussed tasks and quiet reading time to creative pursuits and lively group work. All require very different levels of concentration and energy levels, yet they usually take place in the same classroom. SchoolVision provides a simple, yet effective solution. It allows you to change the lighting according to the classroom activity and the time of day, bringing out the best in your pupils.



Focus

What: Highest intensity level, cool colour tone

When: Supports concentration for a test



Calm

What: Standard intensity level, warm colour tone

When: Supports to calm a class that is too hyperactive

How does SchoolVision work?

SchoolVision is an innovative lighting solution that allows you to control the classroom atmosphere to create exactly the right ambience. The light can be tailored to suit the learning task or the time of day. By making the learning environment as comfortable as possible for each activity, it keeps young minds alert and eager to take part, optimising results for pupils and the school.

Four dedicated lighting scenes are available for you to select via a touchpad. The scenes are produced by varying the balance between light intensity and colour tone/temperature to create a particular ambience that is suitable for certain tasks and/or time of day. Normal is for regular classroom activities. Energy helps to invigorate pupils when the need to be more active, supporting a fresh start to the day (morning) or afternoon (after lunch break). Focus aids concentration during challenging tasks and Calm brings a relaxing ambience to individual work or quiet time.



What results can you expect?

SchoolVision has proven results. The solution was first researched in a year-long, independent study by Universitätsklinikum Hamburg-Eppendorf with 166 pupils and 18 teachers. The results showed that:

- Reading speed increased by almost 35%
- Frequency of errors reduced by almost 45%
- Hyperactive behaviour also dropped by an astonishing 76%

These positive findings were confirmed and endorsed by a second, more extensive study carried out by the University of Twente. The research at Disselboom primary school in Wintelre between December 2009 and September 2010 concluded that:

- Children score on average 18% higher in a concentration test
- Are more motivated in the long term
- Appreciate their learning environment more, both in the short and long term
- Co-operative learning behaviour is positively influenced by the 'Calm' setting

In short, "Light makes a positive difference" in the things that really matter like concentration, motivation and co-operative learning.



UNIVERSITY OF TWENTE.

Source: "Wirksamkeit von dynamischen Licht in Hamburger Schulklassen",
May 2009 Universitätsklinikum Hamburg-Eppendorf, Klinik und
Poliklinik für Kinder- und Jugendpsychosomatik, Michael Schulte-
Marktwort, Claus Barkmann & Nino Wesselowski
www.uke.de/kliniken/kinderspsychosomatik/index_53560.php

Give learning the green light

As you'd expect from Philips, the SchoolVision solution respects all relevant lighting norms and provides comfortable light with no shadows or glare. Daylight sensors dim the lights when there is enough natural daylight and presence detectors turn the lights off when the classroom is empty. What's more, because SchoolVision is also energy efficient, it's great lesson in sustainability for your class too.

Great results for schools

By recreating the dynamics of natural daylight in the classroom, SchoolVision provides an outstanding learning environment that engages and stimulates or relaxes and calms. You can give your pupils the very best start in school with light that enhances learning, improves results and makes everyone feel better.

Talk to your principal about introducing SchoolVision into your classroom. To find out more about the advantages of SchoolVision and discover how it works in practice, please visit www.philips.com/schoolvision



“With SchoolVision
it's easier for pupils to
concentrate so that
they can achieve better
learning results.”

Tamara Voorjans, teacher Veldvest primary
school, Wintelre, the Netherlands



Recommended light scenes for classroom activities

This describes the suggested light scenes for classroom activities of primary school children (between 6 and 12 yrs old). The scenes belong to the SchoolVision solution. These suggestions are based on observations in classrooms and on several interviews, amongst others with teachers.

Please note that these suggestions should be interpreted as a guideline in helping you choosing the right setting at the right moment in class. The light can of course always be changed when the teacher thinks that another setting is applicable.

Setting 1: Normal



Duration

May be used for a whole day

The Normal setting has a standard intensity and colour tone. This setting is recommended for moments when children conduct tasks that need an average concentration level, like:

- Subjects in world orientation and comprehensive reading
- Instructions for all courses

Setting 2: Energy



Duration

10-15 minutes

The energy setting has a high intensity and a very cool colour tone. This setting is recommended during moments children are a bit sleepy or find it hard to get concentrated:

- The start of the day
- After lunch break when concentration is required
- At times that the childrens' concentration level declines

Setting 3: Focus

Duration

As long as the task lasts



The Focus setting is the setting with the highest intensity level and a cool colour tone. This setting is recommended when children perform a concentrated task. It is also recommended when the teacher believes that children need to be more concentrated, like:

- Technical reading, arithmetic, grammar, spelling
- Exams and tests

Setting 4: Calm

Duration

As long as the task lasts



This setting has a standard intensity level and warm colour tone. This setting is recommended to calm down a class and when children conduct collaborative or creative courses:

- Calming when overactive
- Creative, collaborative subjects, free tasks
- Reading together
- In breaks, after exams
- Social time

Setting O: Off

- Leaving the class
- Watching video

How to operate the system

Entering the classroom in the morning:

- When entering the classroom, the system detects movement and switches on, by default this is the setting Normal. In this situation no indication light is visible on the control panel (dependent of the SchoolVision control panel type).

Selecting a scene

- A scene can be selected by pushing one of the four buttons of the control panel.
- ! *In case of high outside light levels (for instance on a sunny day in summer time) that enter the classroom, the SchoolVision solution automatically dims down the light level to the required scene level that is running, for energy saving purposes. This may impact the scene appearance and may impact the visible effect when changing from one scene to another.*

Watching movies, or other special occasions

- The light can be turned off with the 'Off' button.
- ! *Note that when the 'Off' button is used, the light stays off when the system detects movement. The light switches on again by simply selecting a scene by pushing one of the buttons of the control panel.*

Leaving the classroom

- When leaving the classroom, the system can be turned off by using the 'Off' button.
- ! *Note that the first 10 minutes the system can **only** be turned on by choosing a scene. **Not** by movement detection. When the indication light on the 'Off' button switches off then the movement detector works again.*
- If the system is not manually turned off, then this will be done automatically after 10 minutes. When entering the room, the system will automatically turn on in the Normal setting.



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