



Overview

Product name	Vega
Principle	Temperature stabilized, DC controlled, dimmable light source

Features

Vega illuminator

Output window	Square output window 70 mm x 70 mm
Active area	60 mm x 60 mm
Chart	Interchangeable Vega chart (Customizable)
Specialties	<ul style="list-style-type: none"> • Illumination stability • Illumination uniformity • Controllable flicker functionality • Interchangeable, magnetic test charts
Comparability	Combine up to seven vega light sources with one vega controller.

Illumination

Light source	36 Temperature controlled LEDs based on iQ-DC technology
Uniformity (active area)	> 95 % (for Intensity > 5%) > 90 % (for Intensity < 5%)
Illumination stability	+/- 0,5 %
Correlated Color Temperature (CCT)	To be specified in final data sheet
Color Rendering Index (CRI)	> 95



Response time (switch illuminant)	To be specified in final data sheet
Minimum luminance	0,4 cd/m ² (To be specified in final data sheet)
Maximum luminance	38,000 cd/m ² (To be specified in final data sheet)
Dim function	<ul style="list-style-type: none"> • Software based • 10⁶ Steps
Start up time	120 s (Time till operating temperature is reached)
Service life	10,000 h (LED)
Flicker modes:	Square (LED-Flicker) Sine Triangle
Flicker frequency range	1 – 1000 Hz (Square) 10 – 500 Hz (Sine) 10 – 500 Hz (Triangle)
Flicker duty cycle range	1 – 99 % (Square)
Flicker frequency step width	0.1 Hz (1 – 200 Hz) 0.2 Hz (200 – 500 Hz) 0.5 Hz (500 – 1000 Hz)

Software

System requirements	PC with Windows 10 operating system (or higher) USB port
Functions	<ul style="list-style-type: none"> • Intensity • Frequency • Duty Cycle • Mode Selection
API (C++)	Optional available

General description hardware

Power supply / consumption	110 V / 230 V, up to 500 W
Ports (Controller)	1 x USB for software control 7 x Power to Vega light sources 1 x CAN 1 x Test button
Ports (Light Source)	1 x power 2 x CAN 1 x CAN id DIP_switch 1 x Test button
Light source size W x H x D	120 mm x 130 mm x 120 mm
Controller size W x H x D	310 mm x 70 mm x 140 mm
Light source weight	To be specified in final data sheet
Controller weight	To be specified in final data sheet
Operating conditions	Optimal: 22 - 26 degrees Celsius, maximum: 18 - 28 degrees Celsius



Scope of delivery	<p>Starter Kit:</p> <ul style="list-style-type: none">1 x Vega light source1 x Vega diffusor1 x Vega controller1 x 12 V power cable1 x 230/120 V power cable1 x CAN cable1 x Rugged transport case1 x Acceptance protocol <p>MMP Flicker Evaluation Kit:</p> <ul style="list-style-type: none">3 x Vega light source3 x Vega diffusor1 x Vega controller3 x 12 V power cable1 x 230/120 V power cable4 x CAN cable1 x Rugged transport case <p>CDP Evaluation Kit:</p> <ul style="list-style-type: none">7 x Vega light source7 x Vega diffusor1 x Vega controller7 x 12 V power cable1 x 230/120 V power cable7 x CAN cable1 x Rugged transport case <p>Extension:</p> <ul style="list-style-type: none">1 x Vega light source1 x Vega diffusor1 x Vega controller1 x 12 V power cable
-------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------