PRELIMINARY

VCPROBE SYSTEMS

VCProbe Systems: ELDIM has leveraged all its technical knowledge to provide a viewing angle & uniformity robotic testing solution for your displays production & QC environments.
Focused on accuracy & speed, this innovative solution allows testing of standard display as well as **Curved or Flexible** displays with unparalleled performances.
The **VCProbe Systems** series allows testing of small displays (2" or less) as well as your biggest TV (up to 150") for evaluation of viewing angle as well as uniformity luminance & color characteristics.
This is a complete solution that includes: Sensor, robotics & software interface
No more needs for big XYZ motion stages

Key points
High Speed
Cost effective
Non-contact measurements
High versatile (from small displays to large TVs sets)
Reduced footprint
Flat, curved & flexible displays Viewing angle & Uniformity analysis On-site calibration

Features
For mass production & QC
Viewing angle from 60 to 80°
High dynamic range & stray light resilient
On & off axis luminance & color analysis
On axis spectral data
Flat, curved & flexible displays
Robotic included
Color (xYz, Lu'v', Lab, ΔLab, ΔE, ...)
From 2" up to 150" displays
Absolute proximity sensing for screen detection
Optional response time tool

VCProbe is cost effective compared to current XYZ stages based solutions

Designed for **high speed** (Less than 2s per position) and **versatility** (From small displays to large TVs sets), the VCProbe Systems is the solution for all your displays' online testing needs.
The viewing angle and the uniformity analysis is carried out by the same sensor (Without any additional measurement).
Coupled with a robotic arm, it allows the measurement of curved as well as any freeform flexible displays.
Our ready-to-go interface supports IDMS standard in a mouse's click. All our internal data formats are open, fully documented and XML based.

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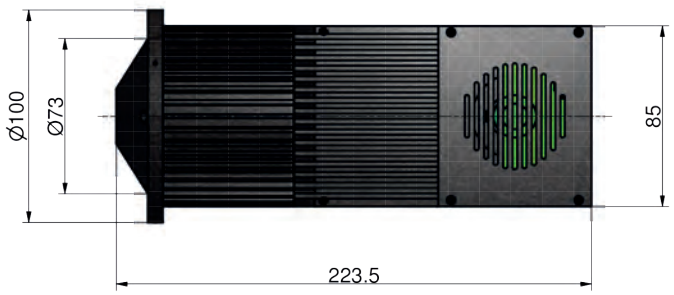
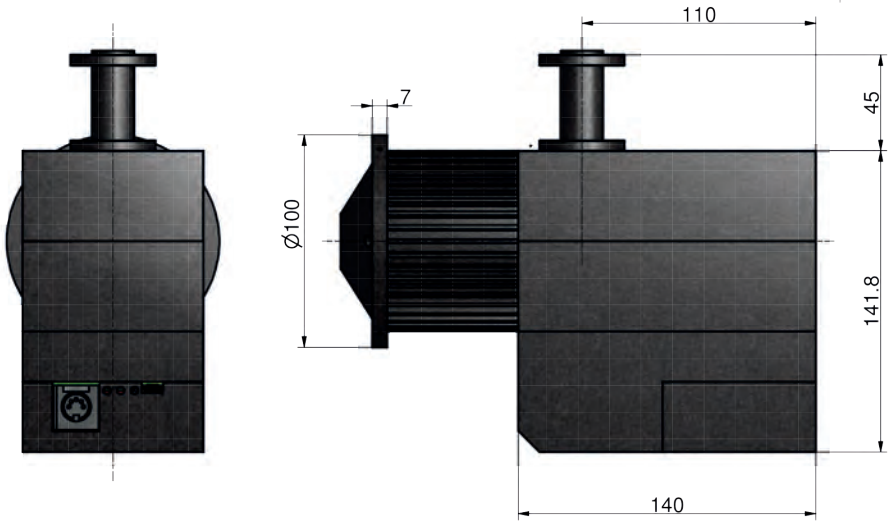
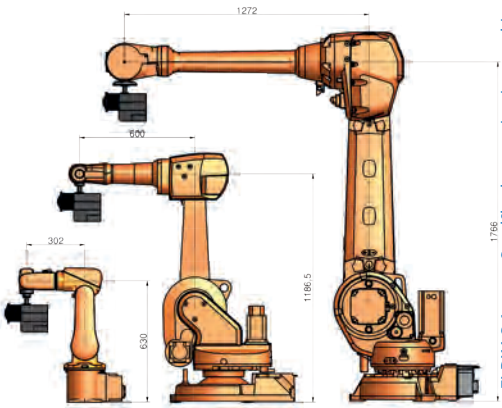
Specifications		VCProbe systems
Sensor	*Resolution* *A/D converter*	12M pixels 14 bits
Optics	*Incident angle* *Azimuth angle* *Angular resolution*	0-60° - 0-70° or 0-80° 0-360° < 0.5°
Maximum display size		from 2" to 150" (depending on model)
Measurement time(*1)	*One luminance measurement* *One color measurement*	< 2s < 2s
Luminance range	*Minimum (cd/m²)* *Maximum (cd/m²)*	0.0001 10^5 cd/m²
Accuracy	*Luminance* *Color (x,y)(*2)*	±3% or less ±0.002
Spectroradiometer (on axis)		Spectral bandwidth: 14nm Range: 380-720nm
Interfaces		10/100/1000 Ethernet USB 2.0
Software interface	*Compatibility*	Android - IOS - Windows - Linux - Unix
Software suite		IDMS tests included All data formats are based on XML
Robotic arms		Max 0.58m (small displays) Max 1.5m (up to 80") Max 2m (up to 150")

(*1) For 100 cd/m² DUT
(*2) For standard illuminance A

Outer dimension (unit mm)







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