

# Lumin Scandinavia

## Evolve TWO 46"

True Multitouch LCD 46"  
with 3D-sensing Technology



- Multi-user multitouch LCD 46
- 3D depth-sensing technology more than 60 touch events simultaneously
- Panel: NEC P461 Public Display
- Full HD (1920 x 1080)
- Multitouch Input Management Software MIM 3.0
- Slim display-design with a depth of only 18.5cm
- Optional plug & play design with table support and MIM 3.0 pre-installed on a high-performance PC
- Scratch-resistant front glass offers excellent haptic touch feeling for smooth interaction
- API's: Windows 7 Touch, TUIO, XML stream, Java
- VESA mounting
- Swipe function

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The Evoluce TWO 46" offers true multitouch and gesture control on a brilliant Full HD LCD screen. 3D depth-sensing technology in combination with the intelligent MIM 3.0 multitouch software unleashes exciting possibilities for a multitude of multi-user applications.

The slim display-design enables large interactive installations in many areas like office, retail, digital signage, exhibitions, gaming, museums and education. With a depth of only 18.5cm the unit is easy to integrate into a wide range of different hardware solutions. Get the optional plug & play design with table support and MIM 3.0 pre-installed on a high-performance PC.

Windows 7 and applications can be controlled by using natural gestures on the screen surface and in the air. The MIM 3.0 multitouch driver software detects more than 60 touch events simultaneously and forwards the information about the position and orientation of fingers and hands near the screen to applications.

The scratch-resistant front glass offers excellent haptic touch feeling for smooth interaction. The 3D-sensor is mounted approx. 100 cm above the screen surface and guarantees optimal performance in any ambient light situation.

## Touch Sensing Hardware

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Touch Technology	3D depth-sensing
Touch Surface	8 mm tempered safety glass with haptic coating
Amount of depth-sensors	1
Distance Sensor to Screen Surface	approx.100 cm, see mechanical drawing
Sensor Interface	USB 2.0
Mounting Position	Horizontal

## Multitouch and Gesture Control

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Tracking Software	MIM 3.0 Multitouch Input Management Software
Touch Input Types	Single finger, multiple fingers; click, hold and drag
Number of Simultaneous Touch Inputs	Minimum 60
Number of Simultaneous Users	4-6
Tracking Data Outputs/APIs	Windows 7 Touch, TUIO, XML stream, Java
Operating System	Windows 7

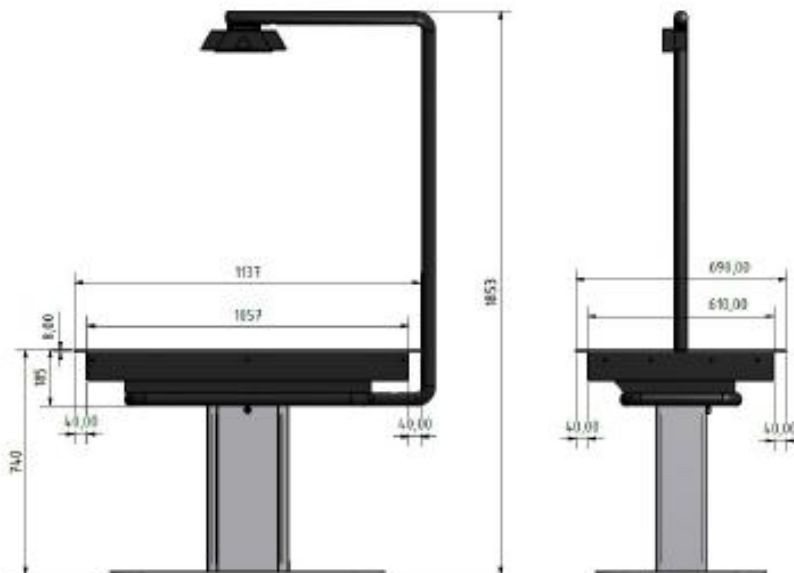
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## Display Specifications

Display	NEC MultiSync® P461 Public Display
Panel Technology	S-PVA TFT LCD
Active Screen Area (W x H) [mm]	1018.4 x 572.5
Screen Size [inch/cm]	46 / 117
Pixel Pitch [mm]	0.461 x 0.461
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Screen Aspect Ratio	16:9
Contrast Ratio (typ.)	4000:1
Brightness (typ.) [cd/m <sup>2</sup> ]	500 (factory setting), 700 peak
Response Time (typ.) [ms]	8 (grey-to-grey), 16 (6 white / black; 10 black / white)
Colours [Mio.]	16.77
Horizontal Frequency [kHz]	31.5 -91.1 (analog and digital)
Vertical Frequency [Hz]	50.0 -85.0
Optimum Resolution	1920 x 1080 at 60 Hz
Native Resolution	1920 x 1080 at 60 Hz
Supported Resolutions	1680x1050; 1600x1200; 1440x1050; 1360x768; 1280x1024; 1280x768; 1024x768; 832x624; 800x600; 720x400; 640x480
Video Input	Analog: 1 x S-Video; Analog: 5 x BNC, Component, Composite (via BNC and Cinch); Analog: 1 x D-sub 15pin; Digital: 1 x DVI-D (with HDCP); Digital: 1 x HDMI; Digital: 1 x Display Port
Video Output	Analog: 1 x BNC composite out; Analog: 5 x BNC for RGBHV, Component and Composite; Analog:Composite (BNC)
Audio Input	2 x Cinch (RCA); 1 x Head-jack 3.5 mm
Audio Output	1 x Cinch (RCA)
Safety and Ergonomics	CE; TÜV GS; C-tick; FCC Class B; UL/C-UL or CSA; CCC; PSB; VCCI; RoHS

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Power Consumption on Mode [W]	210 (at 500 cd/m <sup>2</sup> ) (typ.); 360W max. (with speakers and built-in PC 100% workload)
Power Supply	100-120 V/220-240 V; 3.0 A/1.2 A; internal power supply
Ambient Temperature (operating) [°C]	+5 to +40 (influence on the max. brightness)
Ambient Humidity (operating) [%]	20 to 80
Dimensions	see mechanical drawing
Warranty	3 years warranty incl. backlight



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