

32 inch Essential Display

Shared 3D display for labs, classrooms, showrooms. 4K/60Hz glasses-free spatial display with FPGA real-time rendering, structured-light eye tracking, and physical 2D/3D switching.

Essential Series

Large size

Static optical grating

FPGA Delicate Driver

4K / 60Hz

Essential

32"

3D content preferred



MODEL

Model	32 inch Essential Display
Series	Essential Series
Recommended role	Shared 3D display for labs, classrooms, showrooms
Screen size	32 inch
Optical grating	Static optical grating
Active area	701.2 x 392.5 mm
Overall dimensions	735.8 x 476.3 x 60.1 mm
Case & color	Metal, black
Weight	Net weight 15 kg / gross weight 18 kg
Shipping dimensions	910 x 210 x 584 mm carton
Installation method	100 x 200 mm / 100 x 100 mm M4 VESA

LCD PANEL

Resolution	3840 x 2160 (4K)
Refresh rate	60 Hz
Aspect ratio	16:9
Backlight	LED
Display colors	1.07B colors
Brightness	350 nits
Contrast ratio	1000:1
Response time	18 ms (GTG)
Backlight life	30,000 hrs

3D PARAMETERS

3D rendering method	FPGA real-time rendering
Viewpoints	2
Eye-tracking system	Structured light / 180 Hz
Viewing distance	500 - 1000 mm (optimal 700 - 800 mm)
3D format	Side-by-side format
Color format	RGB888, YUV444
2D / 3D switching mode	Physical switch
Eye-tracking coordinate sharing	Supported
Light field rendering customization	Supported

I/O, POWER & ENVIRONMENT

Video interface	1 x HDMI Type-A
USB interface	3 x USB
Input voltage	100V - 240V (50/60Hz)
Static power consumption	<= 48W
Operating temperature	0 - 50 C (32 - 122 F)
Storage temperature	-20 - 60 C (-4 - 140 F)
Relative humidity	10 - 90% @ 40 C
Working hours	7 x 24 hours operation
Warranty	1-year standard warranty

Accessories

1.5 m standard power cord x 1; 1.8 m HDMI cable x 1.

Weight note

14 inch and 15.6 inch weights are estimated from 27/32 inch size-weight ratios and should be confirmed before final shipment documentation.

Contact

[3dv.io / shop.3dv.io](https://3dv.io/shop.3dv.io) / Request demo and model guidance at 3dv.io/request-demo/