

Specifications for Spectrum Black

device family model(s)

Spectrum Black
ES07E91 (matte)
ES07EFE (cover glass)

EAN 4897118180566 EAN 4897118180610



Display

Size

monitor size 31.5" (diagonal) display area 699×395mm

aspect ratio 16:9

Image quality

native resolution 3840×2160 pixels

4K Ultra-HD

pixel pitch0.1814mmpixel density140ppisub-pixel layoutRGWB

brightness 275cd/m² typical

450cd/m² peak

1000cd/m² peak (HDR, 3% of screen)

HDR HDR10 Media Profile

VESA DisplayHDR True Black 400 certified

displayable colors

color gamut

98.5% DCI-P3
100% sRGB

94% Adobe RGB

color depth 10-bit

color accuracy Individual factory calibration

D65 white point, average $\Delta E < 1$ (typical)

contrast ratio 1500 000 : 1 typical

viewing angles 178° horizontal 178° vertical

surface treatment Low-haze anti-glare matte coating

(model ES07E91)

Corning Gorilla Glass 3 with DXC anti-reflective treatment

(model ES07EFE)



Speed

response time 0.03ms (gray-to-gray) typical

frequency range 48 – 240Hz

48 – 480Hz in High speed Dual-mode

adaptive sync 48 - 240Hz

48 – 480Hz in High speed Dual-mode

VESA Adaptive-Sync certified

NVIDIA G-SYNC Compatible certified AMD FreeSync Premium Pro certified

Technology

panel technology 3rd gen White organic light emitting diode (W-OLED)

with Micro Lens Array+ (MLA+)

backlight technologyN/Abacklight dimmingN/Acurved panelNotouch-enabledNopen-enabledNo

Ports

Video input

HDMI (2x) HDMI 2.1a video input with support for:

- source-based tone mapping (SBTM);

- display stream compression (DSC) 1.2;

- enhanced display data channel (E-DDC);

- HDR10 media profile;

- variable refresh rate (VRR);

- auto low latency mode (ALLM);

- quick frame transport (QFT);

- quick media switching (QMS); and

- high-bandwidth digital content protection (HDCP) 2.2

DisplayPort (1x) DisplayPort 1.4 video input with support for:

- high bit rate 3 (HBR3) transmission mode;

- display stream compression (DSC) 1.2;

- enhanced display data channel (E-DDC);

- HDR10 media profile;

- variable refresh rate (VRR); and

- high-bandwidth digital content protection (HDCP) 2.2



USB

USB Type-C (1x) SuperSpeed USB 5Gbps (USB 3.1 Gen 1, up to 5Gbps)

upstream connection for firmware updates only

Power output up to 5V --- 1A (5W)

Audio

3.5mm audio output (1x) Analog audio output from video input source

Features

Black frame insertion (BFI) reduces eye-tracking motion blur and increases the clarity of objects that move quickly across the screen. (Available between 48 and 120Hz, at 50% duty cycle.)

The Black equalizer adjusts dark areas of the screen so you can always find your foes.

A Crosshair overlay assists your aim and gives a competitive advantage.

A **Frame counter overlay** shows you how well your system performs and helps pick the right settings for any game.

Pixel-perfect upscaling, using integer-ratio pixel duplication for low-resolution input signals, maintains the iconic look of pixel art and keeps retro games looking crisp.

Dual-mode allows even smoother fast-paced action by operating the monitor at up to 480Hz in Full-HD.

User-adjustable Quick actions give you quick access to the setting you use most.

Dual-screen lets you keep an eye on everything at once. Split-screen mode places the screens from two computers side-by-side, Picture-in-picture mode puts the image from a secondary computer in the corner.

User-upgradable firmware allows development to continue based on customer feedback, to tweak existing features and unlock new ones.

monitor mount support

Yes, VESA Mounting Interface Standard 100×100mm

security cable support No built-in speakers No



Adjustment

controls 1× Power button

1× Shortcut button 1× 5-Way joystick

Controls are centered on the underside of the monitor

status light 1× Power indicator light, integrated into the power button

White, user-adjustable behavior

(Default: solid when on, pulsing in standby)

OSD languages English, Chinese, Dutch, French, German, Italian, Japanese,

Spanish

Stand

material Cast aluminum alloy

vertical tilt 7° down, 23° up

horizontal swivel No

pivot / landscape rotation 90° left, 90° right

height adjust 122mm

removable Yes, with quick-release button



NOTE: The Dough Spectrum Stand (ES07E93) is sold separately.

In the box

Dough Spectrum Black

Power adapter

Power cable

Color calibration report

