

## OVERVIEW

The RED ONE redefined digital cinema upon its arrival, democratizing 4K capture and challenging the status quo. Utilizing an S35mm image plane, the RED ONE displays a natural depth of field from 2K to 4.5K resolutions. Seize every moment with the ability to capture anywhere from 1-120 fps onto high-speed RED CF or SSD media. Interchangeable lens mounts and free firmware updates keep the RED ONE versatile, letting you and your equipment thrive on the cutting edge. A revolution always starts with ONE.

## TECHNICAL DATA

<b>SENSOR</b>	14 MEGAPIXEL MYSTERIUM-X™
<b>PIXEL ARRAY</b>	5120 (h) x 2700 (v)
<b>S/N RATIO</b>	66db
<b>DYNAMIC RANGE</b>	13+ stops
<b>MAX IMAGE AREA</b>	4480 (h) x 2304 (v)
<b>LENS COVERAGE</b>	24.2mm (h) x 12.5mm (v) x 27.3 mm (d)
<b>DEPTH OF FIELD</b>	Equivalent to S35mm (Motion) lens Equivalent to 16mm (Motion) lens in 2K RAW
<b>ACQUISITION FORMATS</b>	4.5K RAW (2.4:1) 4K RAW (16:9, HD, 2:1, and Anamorphic 2:1) 3K RAW (16:9, 2:1, and Anamorphic 2:1) 2K RAW (16:9, 2:1, and Anamorphic 2:1)
<b>PROJECT FRAME RATES</b>	23.98, 24, 25, 29.97 fps @ 4.5K, 4K plus 50, 59.94fps @ 3K, 2K
<b>DELIVERY FORMATS *</b>	4K : DPX, TIFF, OpenEXR (RED RAY via optional encoder) 2K : DPX, TIFF, OpenEXR (RED RAY via optional encoder) 1080p RGB or 4:2:2, 720p 4:2:2 : Quicktime, JPEG

Avid AAF, MXF. 1080p 4:2:0, 720p 4:2:0 : H.264, .MP4

**MONITOR OUTPUTS**

HD-SDI and HDMI with Frame Guides and Look Around  
720p RGB or 4:2:2

SMPTE Timecode, HANC Metadata, 24-bit 48Khz Audio

**DIGITAL MEDIA**

REDFLASH (CF) Module : (16GB Media)

RED SSD™ (64GB, 128GB, 256GB Capacity)

**REDCODE™**

12-bit RAW : RC28, 36, 42 Quality Levels

1-30 fps 4.5K, 4K

1-60 fps 3K

1-120 fps 2K

**AUDIO**

4 channel, uncompressed, 24 bit, 48KHz.

**MONITORING OPTIONS**

RED LCD 5" Flat Panel Display

RED PRO LCD 7" Flat Panel Display

BOMB EVF™ High Definition Viewfinder

**REMOTE CONTROL**

USB-2, GPI Trigger

**WEIGHT**

10lbs. Body

**CONSTRUCTION**

Aluminum Alloy

**TEMPERATURE RANGES**

Operating Range: 0°C to +40°C (32°F to 104°F)

Storage Range: -20°C to +50°C (-4°F to 122°F)