RED EPIC

pocket guide

FRAME RATE | ISO RATING | F STOP | SHUTTER SPEED | WHITE BALANCE | RESOLUTION | QUALITY

24fps | 1600 | - - | 48sec | 5600k | 5K 2:1 | RC 8:1

AUDIO METER

RESOLUTION
1 8 : 1 1 : 0 1 : 1 5
TIMECODE

ACTION GUIDE

MEDIA STATUS

POWER

DC 12.0V

865K

FOCUS CIRCLE

PICTURE CENTER

FALSE COLOR MODE

REMOTE LAN

RIG STATUS

JAMSYNC

GENLOCK

TC

HDR+ MODE

MAGNIFY

FAN SPEED

CAMERA TEMPERATURE

DROP

OVERLAY GRID

FRAME GUIDE

NEXT CLIP FILENAME

A001_C011

TITLE GUIDE

HISTOGRAM

RAW NOISE LEVEL BAR

RAW CLIP LEVEL BAR

RAW CLIP METER

RESOLUTION / PROJECT / FRAME RATE / QUALITY

5K 2:1
23.98
RC 8:1
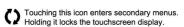
TOUCHSCREEN

Lower Status Row Shortcuts

- **System Status:** Touch Clip Settings in lower left
- **False Color Menu:** Touch RGB Histogram
- **Settings Menu:** Touch System Status in center
- **Media Menu:** Touch Media Status indicator
- **Power Menu:** Touch Power Status indicator
- **Audio Input Menu:** Touch Audio Meters

Touching this icon enters secondary menus. Holding it locks the touchscreen display.

To unlock the touchscreen, hold this icon.

Touch outside windows to confirm selections/exit.

Touch Gestures

Pinch to Magnify: Pinch with two fingers to enable focus zoom. Slide fingers apart to exit.

Double Click Right 25%: Double tap right 25% of screen to start and stop recording.

VARISPEED

REDCODE Options for Varispeed Recording
Maximum framerates and redcode settings

FPS	24	25	30	48	50	60	72	75	90
5K FF	RC 3:1	RC 4:1	RC 4:1	RC 6:1	RC 7:1	RC 8:1	RC 9:1	RC 10:1	RC 12:1
5K 2:1	RC 3:1	RC 3:1	RC 4:1	RC 6:1	RC 6:1	RC 8:1	RC 9:1	RC 9:1	RC 11:1
5k ANA	RC 3:1	RC 3:1	RC 3:1	RC 4:1	RC 5:1	RC 5:1	RC 6:1	RC 7:1	RC 8:1
5K 2.4:1	RC 3:1	RC 3:1	RC 3:1	RC 5:1	RC 5:1	RC 6:1	RC 8:1	RC 8:1	RC 9:1
4K HD	RC 3:1	RC 3:1	RC 3:1	RC 4:1	RC 4:1	RC 5:1	RC 6:1	RC 6:1	RC 7:1
2K 2.4:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1

FPS	96	100	120	150	175	210	250	288	300
5K FF	RC 12:1	-	-	-	-	-	-	-	-
5K 2:1	RC 12:1	-	-	-	-	-	-	-	-
5k ANA	RC 8:1	-	-	-	-	-	-	-	-
5K 2.4:1	RC 10:1	RC 10:1	RC 12:1	-	-	-	-	-	-
4K HD	RC 8:1	RC 8:1	RC 10:1	-	-	-	-	-	-
2K 2.4:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 3:1	RC 4:1	RC 5:1	RC 6:1	RC 7:1

RECORDING

Approximate Record Times on 128GB Mag

REDCODE	5K(FF)	5K(2:1)	5K(2.4:1)	5K(ANA)	4K(HD)	2K(2.4:1)
RC 12:1	56	59	70	89	84	400
RC 11:1	52	54	65	82	77	367
RC 10:1	47	50	59	74	70	333
RC 9:1	42	45	53	67	63	300
RC 8:1	38	40	47	59	56	267
RC 7:1	33	35	41	52	49	233
RC 6:1	28	30	35	45	42	200
RC 5:1	23	25	29	37	35	167
RC 4:1	19	20	23	30	28	133
RC 3:1	14	15	18	22	21	100

Times are in minutes based on 128GB REDMAG at 24fps

REDCODE is a variable codec meaning scenes with high detail consume more data.

RED founder Jim Jannard acknowledges that REDCODE 5:1 is the "sweet spot."

For comparison, RC 36 is approx. RC 9:1

POWER

REDVOLT Batteries
- **Full charge:** 16.4 V
- **Full discharge:** 10V (automatically stops)
- **Camera runtime at full charge:**
approx. 30 minutes for REDVOLT 30Wh;
approx 90 minutes for REDVOLT XL 90Wh.

RED Travelcharger
- **Time to full charge:** 90 minutes
- **Time to 80% charge:** 60 minutes

Charger Indicator Lights
- **Red Solid:** Charger on with no battery
- **Yellow Flashing:** Battery charging
- **Green Solid:** Battery fully charged
- **Red/Green Alternate:** Fail condition

Charging stops automatically after 105 minutes
and/or the battery reaches about 17.0 volts.

RED Epic can also be powered through legacy
RED Brick batteries via the DC In power port.

SENSOR

A. Mysterium-X Sensor
(30 mm x 15 mm)

B. 5K Record Area
5120 x 2700 Pixels (27.68 mm x 14.60 mm)

Current available resolution options:
5K (2:1/2.4:1/FF/ANA) - 4K (HD) - 2K (2.4:1)

Default is 5K 2:1

Like the RED One, Epic windows the sensor for lower resolutions, resulting in a smaller area of the sensor used and larger depth-of-field.

FALSE COLOR

Video
Activates multi-color overlay designated as such:

Color		Description	IRE Level
Red		Super White	108 - 109
Orange		Super White	105 - 107
Yellow		Super White	101 - 104
Straw		White	96 - 98
Pink		Typical for Caucasian Skin	54 - 57
Green		Typical for 18% Gray Card	44 - 47
Teal		Dark Gray	9 - 12
Blue		Black	1 - 3
Purple		Super Black	< 1

Exposure
Purple is minimum exposure, red is maximum

Focus
Displays a red color overlay that outlines the edges of objects that are in sharp focus

CONTACTS

RED Customer Support

North America
RED Hollywood..........................1-323-463-0808
RED Headquarters....................1-949-206-7900
also time critical help M-F 8am to 5pm (PST)

Europe and Asia
RED Europe Ltd.....................44(0)1753-785454
RED Square Russia..................7-499-143-4709

Online Resources
http://www.red.com/support
http://www.reduser.net

DISCLAIMER

This guide is not a substitute for full comprehension of the RED Epic and its functionality. Users and customers should read all material provided by RED with its products including, but not limited to: manuals, reports, changelogs, white papers, and digital documents.

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